MORRISTOWN EAST HIGH SCHOOL

Program of Study

#MoEastfaMily

2024-2025

This program of study is created following the Tennessee State Board of Education High School Policy. This policy, last revised 8/4/2023, can be found here.

Hamblen County Board of Education Members

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Mr. Brad Hall, Assistant Principal
Ms. Traci Jefferson, Assistant Principal
Mr. Summer Moore, Assistant Principal

Morristown Hamblen High School East School Counselors

Mrs. Bailee Northern, 9th Grade Counselor
Ms. Lucy Lakins, 10th Grade Counselor
Ms. Brooke Samples, 11th Grade Counselor
Mrs. Mary Seals, 12th Grade Counselor for last names A-E and S-Z
Mr. Brian Bowlin, 12th Grade Counselor for last names F-R

MORRISTOWN-HAMBLEN HIGH SCHOOL EAST

Morristown-Hamblen High School East is accredited by the Tennessee State Department of Education and the Southern Association of Colleges and Schools.

VISION STATEMENT

At Morristown-Hamblen High School East, students have the ability to choose a pathway when they are presented with a cohesive, standards-based education that is designed to ensure they can compete in the workforce, worldwide.
Students are able to make choices about their pathway when they have the opportunity to participate in clearly-defined, strategic programs of study designed to prepare them for post-secondary success.

PROGRAM PLANNING

Developing a program of study is a vital step in the planning of educational and career goals. At Morristown-Hamblen High School East, it is the responsibility of the parents/guardians and students to exercise the initiative in developing the student's program. Other individuals who have a responsibility to assist in program planning are the school counselors, teachers and principals.

GRADUATION REQUIREMENTS

English – 4 credits
- 1 credit – English I, English I (H)
- 1 credit – English II, English II (H)
- 1 credit – English III, English III (H), AP English Language, AP Seminar, or Dual Enrollment Composition
- 1 credit – English IV, AP English Literature, AP Research, or Dual Enrollment Composition

Math – 4 credits
- 1 credit – Algebra I, Algebra I (H), Geometry (H)
- 1 credit – Algebra II, Algebra II (H), PreCalculus (H)
- 1 credit – Geometry, AP Calculus AB
- 1 credit – an upper level mathematics course

*Students must be enrolled in a mathematics course each year.

Science – 3 credits
- 1 credit – Ecology, Biology I (H)
- 1 credit – Biology I, Chemistry I (H)
- 1 credit – Chemistry or Physics (H), Biology II (H), or Chemistry II (H)

Social Studies – 4 credits
- 1 credit – World History and Geography, AP Human Geography
- 1 credit – U.S. Government and Civics, AP U.S. Government and Civics
- 1 credit – U.S. History and Geography, AP U.S. History
- 1 credit – Economics/Personal Finance

Lifetime Wellness – 1 credit

Physical Education - .5 credit
- 1 credit – Physical Education II (Weightlifting or Games)

This requirement may be satisfied by substituting an equivalent time of physical activity in other areas including but not limited to marching band, cheerleading, AFJROTC, interscholastic athletics.

Fine Art – 1 credit*
Courses include Art, Band, Choir, and Theatre Arts.

World Language – 2 credits in the same language*
Courses include French & Spanish.

Elective Focus – 3 credits
Every student must earn 3 credits in an approved Academic or CTE focus area. This must be 3 courses beyond the graduation requirements listed above.
Students completing a CTE elective focus must complete 3 units in the same CTE program area or state approved program of study.

Electives – 5.5 credits

Total = 28 credits

*These requirements may be waived for students who are sure they are not going to attend college. Students will take additional courses to enhance and expand the elective focus.

ELECTIVE FOCUS OPTIONS

ALL COURSES ARE LISTED IN SEQUENTIAL ORDER.

Industrial Maintenance
- Principles of Manufacturing
- Introduction to Industrial Maintenance
- DE Industrial Maintenance
- Manufacturing Practicum

Yearbook
- Intro to Business & Marketing or Computer Apps
- Yearbook (Fall)
- Yearbook (Spring)

Sport and Human Performance
- Health Science Education
- Anatomy & Physiology or Rehabilitation Careers
- Anatomy & Physiology or Rehabilitation Careers or Medical Therapeutics
- Exercise Science or Clinical Internship

Criminal Justice and Correctional Services
- Criminal Justice I
- Criminal Justice II
- Criminal Justice III
- DE Criminal Justice

Machining Technology
- Principles of Manufacturing
- Principles of Machining I
- Principles of Machining II or DE Machining Technology I
- Manufacturing Practicum or DE Machining Technology II

Business Management
- Computer Applications
- Business Communications
- Business Management
- Advanced Computer Apps

Therapeutic Services
- Health Science Education
- Anatomy & Physiology
- Medical Therapeutics
- Pharmacological Science or Medical Assisting
- Clinical Internship

Marketing Management
- Intro to Business & Marketing
- Marketing & Management I
- Marketing & Management II
- Work Based Learning

Welding
- Principles of Manufacturing
- Welding I
- Welding II
- Manufacturing Practicum or DE Welding

Veterinary and Animal Sciences
- Agriscience
- Small Animal Science
- Large Animal Science

Cosmetology
- Cosmetology I
- Cosmetology II
- Cosmetology III

Engineering
- Principles of Engineering & Tech
- Engineering Design I
- Engineering Design II

Ag Engineering & Applied Technologies
- Agriscience
- Principles of Ag Mechanics & Construction
- Ag Power Equipment
- Ag & Biosystems Engineering

Teaching as a Profession (K-12)
- Fundamentals of Education
- TAP I
- TAP II
- TAP III - DE

Web Design
- Computer Science Foundations
- Web Design Foundations
- Website Development
  Web Design Practicum

Technology
- Principles of Engineering & Tech
- Digital Electronics
- Robotics & Automated Systems or DE Tech I
- Engineering Practicum or DE Tech II

Horticulture Science
- Agriscience
- Principles of Plant Science & Horticulture
- Greenhouse Management
- Landscaping and Turf Science

Accounting
- Intro to Business & Marketing
- Accounting I
- Accounting II

Human and Social Sciences
- Intro to Human Studies
- Lifespan Development
- Family Studies or
- Psychology and/or Sociology

Automotive Maintenance & Light Repair
- MLR I
- MLR II
- MLR III or DE MLR I
- MLR IV or DE MLR II

Hospitality and Tourism
- Culinary Arts I
- Culinary Arts II
- Culinary Arts III
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Hospitality and Tourism
- Hospitality and Tourism I
- Hospitality and Tourism II
- Hospitality and Tourism III

Humanities
- Any three (3) Humanities courses beyond those required for graduation.

Fine Arts
- Any three (3) Fine Arts courses beyond those required for graduation.

Audio Visual Production
- A/V Production I
- A/V Production II
- A/V Production III

Leadership in Government
- JROTC I
- JROTC II
- JROTC III
- JROTC IV

*Note: Courses do not have to be in numerical order.

Architecture and Construction
- Fundamentals of Construction
- Residential & Commercial Construction I
- Residential & Commercial Construction II

Advanced Placement
- Any 3 Advanced Placement Courses beyond those required for graduation.

Dual Enrollment
- Any 3 Dual Enrollment Courses beyond those required for graduation.

Emergency Services
- Health Science Education
- Anatomy & Physiology or Medical Therapeutics
- Medical Therapeutics or Anatomy & Physiology
- Emergency Medical Services or DE Emergency Services

Nursing Services
- Health Science Education
- Anatomy & Physiology or Medical Therapeutics
- Medical Therapeutics or Anatomy & Physiology
- Nursing Education and/or Clinical Internship
- DE Nursing Services

Cybersecurity
- Computer Science Foundations
- Cybersecurity I
- Cybersecurity II
- AP Computer Science P or A

Coding
- Computer Science Foundations
- Coding I
- Coding II
- AP Computer Science P or A

Math & Science
- Any three (3) Math and/or Science courses beyond those required for graduation.

Academic
- Math or ELA Interventions, First-Level A Classes (Algebra I A, Algebra II A, Geometry A, Biology I A), and ESL Classes.

- 3 Credits in an elective focus are needed for graduation.
- DE = Dual Enrollment

GRADUATION RECOGNITIONS

Graduate with Honors

Tennessee graduates who earn at or above the college readiness benchmark scores on the ACT (or SAT equivalent scores) will graduate with Honors. The readiness scores are:

Subject	ACT Score
English	18
Mathematics	22
Reading	22
Science	23

Graduate with Distinction

Tennessee graduates who maintain a B average (GPA of 3.0 or higher) and complete an additional approved credential will graduate with Distinction. Approved credentials include:

- National and/or state recognized industry certification
- Tennessee Governor's School
- All-State musical organization
- Earn statewide recognition or award at a skill- or knowledge-based state tournament, convention, or competition hosted by a statewide student organization, and/or qualify for national recognition by a national student organization
- National Merit Finalist or Semifinalist
- A composite score of 31 or higher on the ACT
- A score of 3 or higher on two AP exams
- 12 or more semester hours of post-secondary credit

Tennessee 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.

Tennessee Seal of Biliteracy

Students who have attained a high level of proficiency in speaking, reading, and writing in one or more languages in addition to English will be awarded with the Tennessee Seal of Biliteracy. Students receiving this recognition shall meet the following criteria:

- Complete all English language arts (ELA) requirements for graduation with an overall grade point average of 3.0 or higher in those classes; *and*
- Demonstrate English proficiency through one (1) of the following:
  - Score at the on-track or mastered level on each ELA end-of-course assessment taken;
  - Score three (3) or higher on an Advanced Placement English Language or English Literature exam;
  - Score 22 or higher on the ACT Reading subtest or 480 or higher on the SAT evidence-based reading and writing subtest; *or*
  - Score 4.5 or higher on the WIDA Access, if the student is an English learner; *and*
- Demonstrate proficiency in a world language through one (1) of the following:
  - Score Intermediate-Mid or higher in all three (3) communication modes (interpersonal,

interpretive and presentational) on a world language proficiency assessment recognized by the American Council on the Teaching of Foreign Languages (ACTFL) or comparable assessment; *or*

Score three (3) or higher on an Advanced Placement world language exam.

Tennessee Seal of Biliteracy with Honors

Students who have attained a high level of proficiency in speaking, reading, and writing in one or more languages in addition to English will be awarded with the Tennessee Seal of Biliteracy. Students receiving this recognition shall meet the following criteria:

- Complete all English language arts (ELA) requirements for graduation with an overall grade point average of 3.0 or higher in those classes; *and*
- Demonstrate English proficiency through one (1) of the following:

  Score at the on-track or mastered level on each ELA end-of-course assessment taken;

  Score three (3) or higher on an Advanced Placement English Language or English Literature exam;

  Score 22 or higher on the ACT Reading subtest or 480 or higher on the SAT evidence-based reading and writing subtest; *or*

  Score 4.5 or higher on the WIDA Access, if the student is an English learner; *and*
- Demonstrate proficiency in a world language through one (1) of the following:

  Score Intermediate-Mid or higher in all three (3) communication modes (interpersonal, interpretive and presentational) on a world language proficiency assessment recognized by the American Council on the Teaching of Foreign Languages (ACTFL) or comparable assessment; *or*

  Score three (3) or higher on an Advanced Placement world language exam.
- Complete 10 hours of community service your senior year.

Work Ethic Distinction

The "Work Ethic Distinction" is a workforce readiness credential that can be earned by high school seniors in participating counties. Students who earn the Work Ethic Distinction will be given preference for job interviews at partnering employers if they meet all other qualifications of the job posting.

Participating students will receive a list of Work Ethic Distinction Standards which includes 13 achievement categories. Each achievement category has one, two, or three subcategories that are assigned a point value. Students who sign up for the Work Ethic Distinction must complete enough of the goals set out in the achievement categories to score 32 points in order to receive the Distinction.

GRADING SYSTEM

Grade reporting is done at the end of each nine weeks. The following grading scale is used:

A	**90 – 100**
B	**80 – 89**
C	**70 – 89**
D	**60 – 69**
F	**0 – 59**

Grades given at the end of each nine-week period will be determined from daily work and oral and written assignments. In computing the grade, the teacher will weigh the value of grades given for various assignments within the nine-week period. This procedure will enable the teacher to allow for individual differences in grading. Grades for the term will be determined by averaging the two nine-week averages and the term exam. Honors classes will get .5 extra points to the numerical average. State dual credit courses (students must sit for exam) will get .75 points. Advanced Placement classes (students must sit for exam) and Dual Enrollment classes will get 1 point. Progress reports are sent home at the midpoint of each nine-week grading period.

The GPA (grade point average) is the average of the letter grades earned in classes, divided by the total number of classes taken. Extra points are calculated into the weighted GPA for advanced classes.

Regular Classes	A = 4	B = 3	C = 2	D = 1	F = 0
Honors and Earned Industry Certification Classes	A = 4.5	B = 3.5	C = 2.5	D = 1.5	F = 0
State and Local Dual Credit Classes	A = 4.75	B = 3.75	C = 2.75	D = 1.75	F = 0
AP & Dual Enrollment Classes	A = 5	B = 4	C = 3	D = 2	F = 0

ENROLLMENT IN ADVANCED COURSES

Honors and AP Classes

Must score Meets or Exceeds Expectation on the most recent TCAP/EOC assessment.

a. If the Honors or AP courses directly align to a TCAP test, you will use the most recent available score.
Example: AP Human Geography (9th Grade class) would use 7th grade TCAP assessments
Example: AP US Govt. (10th Grade class) would use 8th grade TCAP assessments

b. If the Honors or AP course does not directly align to a TCAP test, you will use the next 2 criteria.

Must attain a grade of "C" or better in the current aligned course.
Example: Honors Physics must have had a "C" in Biology

Teacher/Administration Recommendation

Dual Enrollment Classes

Must score Meets or Exceeds Expectation on the most recent TCAP/EOC assessment.

a. If the Dual Enrollment courses directly align to a TCAP test, you will use the most recent available score.
Example: Comp. I (11th Grade class) would use 9th or 10th grade TCAP assessments.

b. If the Dual Enrollment class does not directly align to a TCAP test, you will use the next 2 criteria.

Must attain a grade of "C" or better in the current aligned course.
Example: Honors Physics must have had a "C" in Biology

Teacher/Administration Recommendation

Dual Credit Classes

Must score Approaching Expectations or above on the most recent TCAP/EOC assessment.

a. If the Dual Credit courses directly align to a TCAP test, you will use the most recent available score.
Example: Dual Credit Stats. would use Alg. II or Geometry TCAP assessment.

Must attain a grade of "C" or better in the current aligned course.

Teacher/Administration Recommendation

*Students may Self Nominate to be enrolled in an advanced course. If a student does not meet the requirements and would like to self nominate, students will complete the Enrollment in Advanced Course Self Nomination Form to be turned in for review.

**Students who are eligible to be Enrolled in Advanced Courses will be placed in these courses. These students will remain enrolled in these courses unless the parent/guardian timely submits a written request for removal.

ATHLETIC ELIGIBILITY

To be eligible to participate in athletic contests, a student must be in good standing, meet all TSSAA regulations, have insurance, have the permission of his/her parent(s) or legal guardian(s), have a physical examination, and live with his/her parent(s) or legal guardian(s) in the Morristown East High School zone. Incoming freshmen must have been academically promoted to the ninth grade in order to be eligible. Students in grades ten through twelve must have earned six credits the preceding school year. All credits must be earned by the first day of the school year. Subjects passed during Summer School will be considered part of the preceding school year. A student who is ineligible for the first term may become eligible for the second term by passing three courses in the first term and meeting the other aforementioned requirements. A student may not participate in athletics if his/her 19th birthday occurs on or before August 1. Beginning with the ninth grade, a student is eligible to participate in athletics for eight consecutive terms.

NCAA CLEARINGHOUSE

In order to participate in college athletics and qualify for certain athletic financial aid, you must register with the NCAA Clearinghouse and meet academic and amateurism eligibility standards. You may register online at http://www.ncaaclearinghouse.net. Upon registration, students will need to complete a transcript request form in the Counseling Office. Additionally, the NCAA requires prospects who intend to enroll at NCAA Division I and Division II institutions to supply official ACT or SAT scores to the NCAA Clearinghouse directly from the testing agencies. The test code for NCAA on the ACT is 9999. Test scores on an official high school transcript will no longer be usable for NCAA purposes. Student transcripts will be sent only when they are finalized at the end of the year.

COURSE SELECTION AND SCHEDULE CHANGES

The courses that students select will be the basis for the employment of teachers and the development of the master schedule for the upcoming school year.

Be sure to list alternates for all elective courses. Otherwise, if the electives chosen are not available, courses will be scheduled at the discretion of the counselor or principal. Schedule changes will be limited.
Consideration for a schedule change will be made:

1. If a student wishes to attempt to balance the academic load.
   (These requests will be considered on a space available basis only.)
2. If a student wishes to sequence courses due to special circumstances.
   (These requests will be considered on a space available basis only.)
3. If a student received a course for which he/she did not register.
   (When a student selects an alternate, the student has "registered" for that course.)
4. If a student passed a course that he/she assumed he/she would fail.
5. If a student failed a course required for graduation.

It is the student's responsibility to contact the counseling office should he/she fail a course required for graduation and need to retake the following semester.

ATTENDANCE

Attendance is critical to success in high school. By state law, a student is considered truant at 5 unexcused absences and will be placed on an attendance contract. Further unexcused absences may result in referral for truancy review and court. Absences in excess of 10 (unless medical, funeral, or legal excuse) result in loss of credit. Students are required to continue attending classes even if credit has been denied.

TESTING

By state law, all high school students must take the ACT or SAT before receiving a high school diploma. All juniors are required to take the ACT in the spring of their junior year. The test will be administered on a school day, and there is no cost to the student for this exam. In the fall of the senior year, there is an additional opportunity to take the ACT free of charge for all seniors.

TNReady tests are given for English I and II, Algebra I and II, Geometry, U.S. History, and Biology during the semester in which the course is taken.

Students enrolled in U.S. Government and Civics must take and pass a U.S. Civics Test. (T.C.A. § 49-6-408)

Advanced Placement tests are given in May on the National AP Testing days. Students must make a passing score determined by individual colleges and universities in order to receive college credit.

ADVANCED PLACEMENT PROGRAM

Morristown-Hamblen High School East is very proud of its Advanced Placement (AP) Program. Through taking AP courses and tests, you have the opportunity to earn credit or advanced standing at most of the nation's colleges and universities. The AP courses are taught on a college level at the high school. In May, students sit for an AP exam covering the class material. There is a cost for each AP exam imposed by the College Board. This cost varies from year to year – AP teachers will have the new cost each year.

Reasons to take AP level classes:

- Get a head start on college-level work.
- Improve your writing skills and sharpen your problem-solving techniques.
- Develop the study habits necessary for tackling rigorous course work.
- Demonstrate your maturity and readiness for college.
- More than 90 percent of four-year U.S. colleges and universities grant credit or placement for qualifying AP Exam grades.

AP Schedule Change Policy

Students and parents need to think about the commitment it takes to be enrolled in AP classes. These courses are rigorous. Students will sign once they do course registration with their counselor. Students will not be allowed to drop an AP class. Students need to do research to see if the AP program is right for them. We encourage students to talk to their current teachers and any teacher of an AP class being considered.

DUAL ENROLLMENT PROGRAM

Dual Enrollment (DE) students are concurrently enrolled in both high school and a post-secondary institution. DE opportunities for 2- and 4-year colleges are available for juniors and seniors with a 3.0 unweighted GPA or an ACT composite score of a 21. Specific minimum ACT subject area sub-scores are required for certain college courses. DE students must maintain a 2.75 college GPA to remain eligible to continue receiving the grant for future semesters. Dual Enrollment is also possible with the Tennessee College of Applied Technology in Morristown. Students interested in enrolling as a DE student with TCAT should see their school counselor about available options.

DE students may qualify for the DE Lottery Grant, accessed through the Tennessee Student Assistance Corporation. You can find more information about this grant at https://www.collegefortn.org/dualenrollment/. A dual enrolled student participating in the Dual Enrollment Grant program may receive funding for up to ten (10) lifetime dual enrollment courses. If enrolled in a 3-credit hour course for the first five (5) courses, the student may receive up to $582.75. For courses 1-5 which are not 3 credit hours, courses are paid at a rate of $194.25 per credit hour. For courses 6 – 10, $100 per credit hour. The student is responsible for the remainder of the payment and any required books or other materials. Beyond the 4th class, eligible students may be permitted to access Hope Scholarship funds. One high school credit is given for a 3-hour college class. DE courses may count as credits required for high school graduation. Dual Enrollment registration involves several steps that the student takes in conjunction with the post-secondary institution. These steps must be completed prior to the start of the academic semester in order for the student's schedule to reflect the DE course.

To be eligible for the dual enrollment grant a student must be:

- A Tennessee resident
- Meet the admission requirements of the institution the student plans to attend and apply for the grant as a high school junior or senior if enrolled at a two-year or four-year institution OR;
- be at least a high school freshman if enrolled at a Tennessee College of Applied Technology (TCAT)
- May enroll at a two-year or four-year eligible postsecondary institution and continue receiving the Dual Enrollment Grant for up to 10 courses by maintaining all eligibility requirements and achieving a minimum cumulative 2.0 GPA for all postsecondary semester courses attempted as a recipient of the grant.
- Enroll in a TN College of Applied Technology clock hour program may continue receiving the Dual Enrollment Grant by maintaining all eligibility requirements and achieving a minimum cumulative 2.0 GPA for up to 1296 clock hours.
- Meet the above requirements and the student may receive an award amount at a 2-year or 4-year institution for the first five courses which is the cost of tuition plus a 5% access fee as determined by the TN Board of Regents for community colleges. For a student's sixth through tenth dual enrollment semester courses, the award amount is $100 per credit hour, not to exceed $600 per course. At a TN College of Applied Technology, the award amount is the cost of tuition as determined by the TN Board of Regents.

The following policy is in place for high school students who choose to take Dual Enrollment classes at any local post-secondary institute: College grades are reported as letters. The following conversion scale will apply, unless a specified number grade is given by the college:

A = 95 B = 85 C = 75 D = 65 F = 55

No attendance points will be added to Dual Enrollment classes.

SENIOR YEAR REQUIREMENTS

As college admission and job opportunities become more competitive, it is necessary to continue a level of academic rigor. We encourage all students to take challenging courses during their senior year. All seniors are expected to take a Math course, an English course, and an Economics/Personal Finance course during the 12th grade year.

VALEDICTORIAN/SALUTATORIAN SELECTION PROCESS

Valedictorian and Salutatorian are selected following the seventh semester of the high school career. Valedictorian will be defined as the student who holds the highest grade point average. Salutatorian will be defined as the student who holds the second highest grade point average. The added-value grade point average is used to determine class rank. To earn added-value points to the grade point average, a student must complete honors, dual credit, dual enrollment, and advanced placement courses. On pages seven and eight of this document, you will find how added value is determined and added into the grade point average. The valedictorian and salutatorian are chosen to speak at the graduation ceremony.

TRANSPORTATION BETWEEN EAST & WEST

Students who commute to Morristown West from Morristown East are provided transportation on a school bus to transport students between schools at no charge. Students are not allowed to utilize their own transportation when commuting between schools.

WORK-BASED LEARNING

With the exception of seniors who are enrolled in Work-Based Learning (WBL) courses, all students are required to remain in school for all four periods. Students enrolled in WBL may be dismissed at 1:20 pm in order to report to work if their job requires them to report to work before 3:00 pm, if they have met all other graduation requirements, and if they have parental permission.

EDUCATION WORKS

In response to a growing demand for a skilled workforce within our region, Hamblen County has established through the Innovative High School Grant, Education Works. This is a program that connects high school students ready to enter the workforce with employers. Students are equipped with in-demand state recognized industry certifications and OSHA 10 safety training certification. Education Works provides two different pathways to employment. Candidates for Education Works can be identified by school administrators, counselors, teachers, graduation coaches, or IEP case managers and should be submitted to Mr. Daniel Aldridge, Hamblen County WBL Coordinator and CTE Program Manager. Education Works is offered in every program of study as a fourth level course.

This program is offered to students who are on track to graduate and have completed a specific program of study and are ready to enter the workforce. Based on availability in her/her schedule, students may work up to two periods of Work-Based Learning each semester. WBL may be offered multiple times during the students' junior and senior years, but students may only obtain 3 WBL credits per year. Students interested in Option 1 of the Education Works should have a transcript analysis completed to see if he/she would be a possible candidate for this program. For more information or questions, please contact the Hamblen County Career and Technical Education Department at 423-581-3084

INDUSTRY CREDENTIALS

Industry credentials (IC) are earned through secondary and postsecondary career and technical education programs and courses. High school students are encouraged to focus their elective credits on robust, career-aligned learning pathways. Robust learning pathways should culminate with the achievement of nationally recognized industry credentials, meaningful work based learning experiences, and/or attainment of postsecondary credit hours through early postsecondary opportunities. As it pertains to industry credentials, all department-promoted credentials are aligned with postsecondary and employment opportunities and with the competencies and skills that students should have acquired through their chosen programs of study.

Program of Study	**Industry Credential offered**
Accounting	Hootsuite Social Marketing Certification (HSMC)
Agricultural Engineering & Applied Technology	OSHA 10 - Agriscience, PMI - Ag Mechanics, Briggs and Stratton Basic Engine Maintenance - Power Equipment
Culinary Arts	ServSafe Manager
Cybersecurity	CompTIA IT Fundamentals, Cyber 1, CompTIA Network + Cyber 1, CompTIA Security +, Cyber 2
Early Childhood Careers	Infant/Child/Adult CPR and first aid—ECE1, CDA—ECE, TECTA—ECE
Emergency Services	IS-5.A: An Introduction to Hazardous Materials, IS-100.C : Introduction to the Incident Command System,IS-200.C: Basic Incident Command System for Initial Response
Engineering	Precision Measurements Instruments P.O.E., AutoCAD Certified User Eng. 1
Engineering Technology	OSHA 10, Precision Measurement Instrumentation
Industrial Maintenance Technology	SnapOn 504 & 525 Multimeter, PMI, OSHA 10, OSHA 30, Festo Fundamentals of AC/DC
Marketing Management	Hootsuite Social Marketing Certification (HSMC)
Nursing Services	OSHA 10- Clinical Internship,Certified Nursing Assistant-Nursing Education Honors
Office Management	Microsoft Office Specialist - Advanced Computer Applications
Sport and Human Performance	OSHA 10 - Rehab Careers, Certified Personal Trainer - Exercise Science
Therapeutic Services	Certified Clinical Medical Assistant - CMA Class, Pharmacy Tech - Pharmacology
Veterinary and Animal Science	Elanco Vet medical, Elanco fundamental of animal science/ TN specific Industry certification, NCLCA Principles of livestock/ NHJTCA equine management

ENGLISH COURSES

English I (H)
Grade 9; TNReady Exam
A course that seeks to integrate the standards of reading, writing, viewing and representing, and speaking and listening, students will work with a wide variety of texts, including traditional works of literature and practical and persuasive forms of communication that involves speaking and listening skills; the course emphasizes communication and critical thinking skills with attention to grammar, paragraph development, theme writing, and introduction to literary analysis.

English I
Grade 9; TNReady Exam
A course that seeks to integrate the standards of reading, writing, viewing and representing, and speaking and listening, students will work with a wide variety of texts, including traditional works of literature and practical and persuasive forms of communication that involve speaking and listening skills; the course emphasizes communication skills with intense attention to grammar, sentence structure, and paragraph development.

English II (H)
Grade 10; TNReady Exam
A course that seeks to integrate the standards of reading, writing, viewing and representing, and speaking and listening, students will work with a wide variety of texts, including traditional works of literature and practical and persuasive forms of communication that involve speaking and listening skills; the course emphasizes communication and critical thinking skills with attention to grammar, essay development, theme writing, and beginning formal literary analysis.

English II
Grade 10; TNReady Exam
A course that seeks to integrate the standards of reading, writing, viewing and representing, and speaking and listening, students will work with a wide variety of texts, including traditional works of literature and practical and persuasive forms of communication that involve speaking and listening skills; the course emphasizes communication skills with intense attention to grammar, sentence structure, essay development, and theme writing.

English III
Grade 11
This course begins perfecting the integration of the standards of reading, writing, viewing and representing, and speaking and listening. Students will read, analyze, discuss, and write about poetry, fiction, drama, and nonfiction within the American Literature canon. This course emphasizes communication and critical thinking skills and focuses on analytical, narrative, argumentative, and informative writing.

English III (H)
Grade 11
A course that seeks to perfect the integration of the standards of reading, writing, and viewing and representing, and speaking and listening, students will work with American Literature as the focus of literary works, practical and persuasive forms of communication that involve speaking, and listening skills; the course emphasizes communication and critical thinking skills with attention to narrative,argumentative, and

informative writing.

Advanced Placement English Language and Composition – English III

Grade 11; Prerequisite: Teacher recommendation

The purpose of this course is to "engage students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes." This course is modeled after college composition courses "that teach students to read primary and secondary sources carefully and to synthesize material from these texts in their own compositions."

Dual Enrollment Composition I (Offered through WSCC at East High)

Grade 11 or 12

This dual enrollment course gives students the opportunity to take Walters State Community College's Composition I course (ENGL 1010). This course includes argumentative writing, including invention, organization, style, and revision. Critical reading and thinking will be addressed through students' writing and research skills. Students must take the ACT and score an 18 or higher in English and 19 or higher in reading. A passing grade in this course will count as the English III or IV credit.

Advanced Placement Literature and Composition - English IV

Grade 12; Prerequisite: Teacher recommendation

Advanced Placement English Literature and Composition provides the rigor and intellectual challenges found in an undergraduate university or college English literature course and emphasizes critical thinking and analytical reading skills and analytical and argumentative writing skills. Students practice a close reading approach to analyze how writers use larger literary elements (such as structure and themes) and smaller scale elements (such as figurative language, symbolism, and imagery) to create sophisticated works of literature that express complex, important ideas about society and the human experience, and students demonstrate and support analysis of literary works by writing well-written, effectively organized, intellectually sophisticated analytical essays. To prepare for the exam, students practice writing essays within a time limit; 45 minutes for an essay is the goal. Also, students practice answering multiple choice questions about literary works; these questions are similar to the questions used for the Reading section of the ACT but are much more challenging.

Dual Enrollment Composition II (Offered through WSCC at East High)

Grade 12

This dual enrollment course gives students the opportunity to complete WSCC's ENGL 1020. English 1020 is a composition course emphasizing documented critical writing, based on introduction to fiction, drama, and poetry. ENGL 1010 (Composition I) is a prerequisite for this course. A passing grade in this course will count as the English IV requirement.

English IV

Grade 12

A course that seeks to continue the integration of the standards of reading, writing, and viewing and representing, and speaking and listening, students will work with British Literature as the focus of literary works, and practical and persuasive forms of communication that involve speaking.

English Language Development (ELL)

This course is for students whose native or first language is not English. Students are given a test by the ELL teacher in order to enter and exit ELL. This class is required if the specified state score on the TELPA or ELDA is not met. ELL is a year-long course. Each year of ELL may replace up to two English requirements. Two regular English courses are required to meet graduation requirements.

Creative Writing

Grades 10-12

Creative Writing is a class for students who enjoy writing. Students often have the opportunity to experience expository writing in the classroom but have little time to develop imaginative writing. Creative Writing allows them to promote self-expression, to explore various writing styles, and to strive for variety in diction, sentence structure, and format.

Speech and Communications

Grades 9-12

Students will explore a variety of speaking situations (informative, small group, persuasive, and special event speaking) and different types of communication (interpersonal, small group, and public communication) using a variety of digital media (text, audio, and visual) through formal and informal settings.

DE Speech and Communications (Offered through WSCC at East High)

Grades 11-12

An introductory speech-communication course which focuses on the skills development in the areas of interpersonal, small group, and public communication. Special emphasis is given to public speaking. A passing grade in this course awards a student college credit for Fundamentals of Communication (COMM 2025 at Walters State Community College) and listening skills; the course emphasizes communication and critical thinking skills with attention to theme writing. The completion of a research paper is required.

MATH COURSES

Algebra I

Grade 9; TNReady Exam; Prerequisite: This course is for students who had 8th grade math in middle school.

This course emphasizes linear and quadratic expressions, equations, and functions. This course also introduces students to polynomial, rational, and exponential functions with domains in the integers. Students explore the structures of and interpret functions and other mathematical models. Students build upon previous knowledge of equations and inequalities to reason, solve, and represent equations and inequalities numerically and graphically.

Algebra I (H)

Grade 9; TNReady Exam; Prerequisite: This course is for students strong in 8th grade math and have their teacher's recommendation to take Honors Algebra 1.

This course covers all of Algebra I but also some additional topics and more challenging problems, thus giving a better background and stronger preparation for all higher mathematics and science courses.

Geometry (H)

Grades 9; TNReady Exam; one term; Prerequisite: This course is for students who excelled in Algebra 1 in 8th grade and have their 8th grade teacher's recommendation.

This course covers all of Geometry but also an in-depth study of plane and solid geometry with emphasis on theory and formal proof. It is recommended for those students who have previously exhibited outstanding mathematical ability and express the desire to pursue enrollment in advanced mathematics.

Algebra II

Grade 10; TNReady Exam

This course is an extension of the Algebra 1 curriculum. Topics that were first introduced in Algebra 1 will be built upon and applied to problems that require higher order thinking skills. Algebra 2 builds a foundation of mathematics for those students going on to Geometry or Pre-calculus and is a Tennessee graduation requirement. Fundamental skills of mathematics will be applied to such topics as functions, equations and inequalities, probability and statistics, logarithmic and exponential relationships, quadratic, polynomial equations, and fundamental trigonometry. Technology will be used to introduce and expand upon the areas of study listed above. Use of computers and graphing calculators will be incorporated into each unit.

Algebra II (H)/Pre-Calculus (H)

Grade 10; TNReady Exam after Algebra II; one class per term

Algebra II is a rigorous college prep course designed for students who plan to major in mathematics or related fields in college or who are talented in mathematics. Emphasis is on polynomial, rational and exponential expressions, equations, and functions. This course also introduces students to the complex number system, basic trigonometric functions, and foundational statistics skills such as interpretation of data and making statistical inferences. Students build upon previous knowledge of equations and inequalities to reason, solve, and represent equations and inequalities numerically and graphically. Pre-calculus is designed to prepare students for college level STEM focused courses. Students extend their knowledge of the complex number system to use complex numbers in polynomial identities and equations. Topics for student mastery include vectors and matrix quantities, sequences and series, parametric equations, and conic sections. Students use previous knowledge to continue progressing in their understanding of trigonometric functions and using regression equations to model quantitative data. This course is recommended for advanced math students, including all students wanting to take AP calculus.

Geometry

Grade 11; TNReady Exam

Geometry is a course designed for the student who has completed Algebra I and Algebra II. This course covers the terminology, notation, concepts, skills, and applications of geometry, to include but not limited to shapes, two-dimensional and three-dimensional figures. This class incorporates mastered skills from Algebra I to enhance the level of understanding.

Introductory Statistics (SAILS Statistics)

Introductory Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course serves as a 4th year mathematics credit and it is aligned with the Statistics Course Learning Objectives. The Seamless Alignment and Integrated Learning Support (SAILS) program targets students who have not achieved college readiness benchmarks by introducing the college developmental curriculum into the high school senior year. Developed by K-12 teachers and higher-education faculty, SAILS embeds college Learning Support competencies into the high school senior year math course, allowing students to begin their college career prepared for credit-bearing coursework. SAILS utilizes a facilitated hybrid instructional model, combining the professional pedagogical expertise of the certified teacher with dynamic properties of multimedia and digital content. Completion of SAILS Statistics will earn students an exemption of a remedial math course at community colleges and many other universities in Tennessee.

SDC Introductory Statistics (SAILS SDC Statistics)

Statistics is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course serves as a 4th year mathematics credit and it is aligned with the Statewide Dual Credit Probability and Statistics Course Learning Objectives. The Seamless Alignment and Integrated Learning Support (SAILS) program targets students who have not achieved college readiness benchmarks by introducing the college developmental curriculum into the high school senior year. Developed by K-12 teachers and higher-education faculty, SAILS embeds college Learning Support competencies into the high school senior year math course, allowing students to begin their college career prepared for credit-bearing coursework. SAILS utilizes a facilitated hybrid instructional model, combining the professional pedagogical expertise of the certified teacher with dynamic properties of multimedia and digital content. Completion of SAILS Statistics will earn a student an exemption of a remedial math course at community colleges and many other colleges in Tennessee. A student who earns a 70% or better on the State Dual Credit exam will receive college credit for MATH 1530 at community colleges and/or other mathematics courses at many other colleges in Tennessee.

Mathematical Reasoning for Decision Making

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.

Pre-Calculus (H)

Grades 11-12; Prerequisite: A or B in Algebra II (H) with teacher recommendation

PreCalculus (H) is a course that integrates, but substantially exceeds, the Tennessee standards of mathematical processes, numbers and operations, algebra, geometry and measurement, and data analysis, statistics, and probability to help students acquire the fundamentals of Algebra and to prepare them to be

successful in honors, AP, and college level mathematics courses. Topics are studied from college Algebra, Trigonometry, and analytical Geometry. This course is intended for the student who is seeking a broad terminal course in secondary mathematics or for the student who is preparing for AP Calculus I (AB). All assignments adhere to the Tennessee Framework of Standards for Honors Courses. This course meets the requirements of the Tennessee University and College System as a standard Mathematics credit.

Advanced Placement Calculus AB

Grade 11-12; two credits (year-long class); Prerequisites: Completion of Algebra I, Algebra II, Geometry, and Pre-calculus & Teacher recommendation

The Advanced Placement Calculus AB course follows the Advanced Placement syllabus and students will take the AP test in May. Course study will include properties of functions, limits, differential calculus,and integral calculus. Use of symbolic differentiation and integration utilities is also included. AP Calculus AB is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically,numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions.

Advanced Placement Calculus BC

Grade 12; Prerequisite completion of Calculus AB & Teacher Recommendation

This course in single-variable calculus closely follows the recommendations of the Committee on Mathematics of the Advanced Placement Program and meets the requirements set forth by the College Board for the AP exam. Topics for the course include all the topics listed above for Calculus-AB plus additional topics in: differential and integral calculus including parametric, polar, and vector functions; slope fields; solutions to differential equations using Euler‘s method; L‘Hopital‘s Rule and polynomial approximations and series including extensive attention to Taylor Series. This course is designed to prepare students to take the Calculus BC AP exam in May.

Dual Enrollment Probability and Statistics I (offered through CNU at East High School)

Grades 11-12; Prerequisites: Algebra 1, Algebra 2, and Geometry with Average of at least a B

This dual enrollment course gives students the opportunity to complete Carson Newman University’s MATH 2033. MATH 2033 is the study of descriptive statistics, combinatorics, probability, distributions, and inferential statistics. A passing grade in this course will count as a math requirement. Graph calculator will be required.

SCIENCE COURSES

Ecology

Grade 9

Ecology provides students with a wealth of experiences for both science practices and content knowledge in an ever changing world. The course provides students with an opportunity to develop an understanding of interrelationships in the natural world in addition to allowing them to analyze human impacts.

Biology I

Grade 9-10 (TNReady Exam)

Biology I is the introductory science course required for all students that deals with the living world around them. As an introductory course, some topics are ones that students have previously studied in middle school. However, these topics are studied more in depth. Some new topics are introduced as well. Labs are conducted to strengthen the students' understanding of these topics. To be successful in this course, students should be able to think about what they see daily in the natural world and relate it to topics being taught. This will help them gain a better understanding of the material.

Biology I (H)

Grade 9-10 (TNReady Exam)

This introductory course is an accelerated study of living organisms. The class covers all Biology I Tennessee standards: basic life processes, diversity of life to include interactions and interdependence of species, the contributions of men and women to the understanding of biology, the ideas behind the theory of biological evolution, plus current and future biological technologies. Laboratory exercises will be used to reinforce and explore these concepts.

Chemistry I

This course is designed to prepare students who plan to attend a 2 year or 4 year college or university. It will cover the structure and interactions of matter, manipulation of chemical quantities through laboratory practices, and problem-solving practices.

Chemistry I (H)

Students must be strong in math in order to be successful in honors chemistry. This course is an advanced introductory program in college preparatory chemistry. It blends theory with practice and calculations with descriptive chemistry. Emphasis is on problem-solving skills, atomic and molecular structure, states of matter, and chemical reactions.

Chemistry II (H)

Prerequisites: Chemistry I, teacher recommendation

Chemistry II is a fun chemistry course which focuses on the different categories of reactions found in chemistry and their real world applications (tie-dye, soap, and artificial flavors). Much of the course is based on lab experiments with very little math (unlike chemistry I). This course would be a great choice for students needing a third science course who enjoy labs and learning about chemistry in our daily lives.

Physics (H)
Physics is the study of motion. Through experiments and building physics 'toys' (catapults and frisbees) we will study everything from projectiles to seatbelt safety, sound, vision, electricity, and magnetism with only basic math skills (multiply and divide) required. This course would be a great choice for students needing a third science course who like hands-on activities and would like to try something different from biology and chemistry. Also, this course is a good choice for students planning to attend college.

Biology II (H)
Prerequisite: Chemistry and teacher recommendation
Biology II is a lab science that takes the topics from Biology I and goes into a deeper discussion. There are also new topics that are not covered in Biology I that will be introduced in this course. This course would be for those needing a third Science course and do not like a math based course. Math is very minimal. Students taking this course would be those that are very interested in the living world and the way living things interact.

Advanced Placement Biology
Prerequisite: Teacher recommendation
AP Biology is the equivalent to the first year of Biology in college. This course requires taking the AP Exam in May. This course requires outside of school work and students need to be motivated to be successful in this course. Students that would take this course would be those that have a desire to pursue a Science degree in college or those that would like to challenge themselves in Biology.

SOCIAL STUDIES COURSES

World History and Geography
Grade 9
Students will study the Enlightenment, the rise of the nation state in Europe, the French Revolution and the economic and political roots of the modern world. They will examine the benefits and consequences of the Industrial Revolution, Imperialism and understand the causes and consequences of great military and economic events of the past century. This will include WWI, WWII, the Great Depression, the Russian Revolution and the Cold War. Students will also study the rise of nationalism within Europe. Religious, political and ethnic conflict in many parts of the world will also be discussed. This course will explore geographic influences on history concerning political, geographical and social boundaries. The course uses primary and secondary sources, informational text, maps and technologically influenced activities to promote a better understanding of each unit of study.

Advanced Placement Human Geography
Grade 9; Teacher recommendation required
The purpose of AP Human Geography is to introduce high school students to college-level human geography and cultural geography topics. The approach for this course is spatial analysis and problem oriented. The goal for this course is for students to become more geoliterate, engaged in contemporary issues, and become more informed about different cultural viewpoints. The main subfields in which this course will focus on are cultural geography, political geography, economic geography, and urban geography. Students will also learn about the methods and tools in which geographers use to study the human environment interaction.

U.S. Government and Civics
Grade 10
This course will examine the foundations of American government with emphasis on the origins of our government, the Constitution, and federalism. It also includes a study of the three branches of government, civil liberties, civil rights, and state/local government.

AP Government and Politics: United States
Grade 10; Teacher recommendation required
Advanced Placement U.S. Government and Politics provides a college-level introduction to key political concepts, ideas, institutions and behaviors that characterize the constitutional system and political culture of the United States. Students with a strong work ethic who excelled in freshman AP Human Geography, and/or have a strong interest in government or history, and have performed well in a writing-based English class will likely be successful in AP Government.

U.S. History and Geography
Grade 11 (TNReady Exam)
This is a survey of American History that focuses on 1877 to the present. Students will also learn fundamental concepts in civics, economics, and geography within the context of United States History.

Advanced Placement U.S. History
Grade 11; Teacher recommendation required
This course is a survey of American History from exploration to the present. This class will prepare students to take the Advanced Placement exam in U.S. History. Students may earn college credit by passing this exam.

Economics/Personal Finance

Grade 12

A study of how society, individuals, and businesses deal with the problem of unlimited wants and scarce resources. This course provides students with practical applications which will help them make wise economic choices.

Contemporary Issues

Grades 10-12

In Contemporary Issues, students study various dynamic issues facing today's society enabling them to discover their values and responsibilities as citizens in our society. Careful attention will be given to the roots of these important issues as well as their potential effects on our modern society. Students will build upon their previous core knowledge to develop fact-based opinions on these issues.

Psychology

Grades 10 - 12

In this class, students will study the science of human behavior, including how the brain works and why we do the things we do. Students should be prepared to learn about a variety of psychological studies and theories, as well as some fun information about your own brain.

Introduction to Sociology

Grades 10-12

Students will explore the ways sociologists view society and how they study the social world. Students will examine culture, socialization, deviance, and the structure and impact of institutions and organizations as well as selected social problems and how change impacts individuals and societies.

Advanced Placement Psychology

Grades 10-12; Prerequisite: Teacher recommendation

In this class, students will study psychology- the scientific study of behavior and mental processes- at a college level. Topics examined include the brain, psychological disorders and their treatment, group behavior, and personality, among others. By the end of this course, students will be prepared to take the AP exam, but also better prepared for college in general as they will learn basic study and test-taking strategies at a higher level.

WORLD LANGUAGE COURSES

Spanish I

Grades 11-12

The purpose of Spanish I is to encourage interest in the language, culture, and history of Spanish-speaking countries and develop language skills and knowledge needed to proceed to Spanish II. The class provides basic language skills needed to communicate in both written and oral formats in the Spanish language. The design of the course requires a high level of participation from the students as they will be required to speak, read, write, and/or listen to Spanish on a daily basis. Students will develop an appreciation for Hispanic culture.

Spanish II

Grades 11-12

Spanish II offers all skills of communication and culture in a more advanced manner. In Spanish II, students will build upon the material skills learned in Spanish I and continue to develop language skills needed to proceed to college-level Spanish courses. Emphasis is placed on verb conjugations in various tenses, including past, future, and conditional. Students will spend more time practicing their use of the language in real-life situations. Although the prerequisite for Spanish II is a passing score in Spanish I, it is also recommended that the student receive at least a C average in Spanish I and maintain at least a B average in English courses.

Heritage Spanish I

Grades 11-12

Heritage Spanish I is a course designed for heritage learners of Spanish who already have some oral language proficiency. This course accommodates Spanish-speakers from a wide range of linguistic backgrounds. Students will build upon their current language skills to develop language and cultural literacy, as well as their own creative expression. This course will guide students to develop a deeper appreciation for their own cultural heritage in addition to the cultures of other Hispanic countries.

During this course, students will gain confidence using Spanish to express their own thoughts on social and academic themes, interact with other speakers of the language, understand oral and written messages, make oral and written presentations, reflect on language variation, and critically view and evaluate resources and websites. Students will understand material presented on a variety of topics related to contemporary events and issues in Hispanic communities. Teacher recommendation and/or a placement test may be required.

Heritage Spanish II

Grades 11-12

This course is designed to further develop and challenge students' abilities in speaking, reading, writing, listening, and cultural understanding in Spanish. Reading is a major component of the course, including newspaper articles, short stories, and novels. Students practice translating texts and interpreting spoken information. Students work to further develop their Spanish literacy and academic language skills, to learn more about their language and cultural heritage, and to enhance college and career opportunities as they become both bilingual and biliterate.

French I

Grades 11-12

Students will learn basic French grammar and vocabulary which will give them the skills needed to communicate with those who speak and read French and will develop an appreciation for the French culture and people. Students are expected to speak in French in class to showcase what they are learning.

French II

Grades 11-12

Students will improve and expand their ability to communicate in French by studying more specialized vocabulary. Students will also learn more advanced grammar in French II and will be writing and working on conversational skills. Students are expected to speak in French in class to showcase what they are learning.

FINE ARTS COURSES

Art I

Grades 9-12

Art I is a course that explores the seven elements of art through studio art projects including drawing, painting, collage, and assemblage. The later part of the course involves investigations of artists and art history. This course is recommended for all students who are creative and enjoy hands-on projects. No prior art experience is required; just a desire to learn and apply yourself. Critical thinking, reading, and writing skills are needed. This class is a fulfillment of the Fine Arts elective requirement. Art I is a prerequisite for Art II.

Art II

Grades 10-12; Prerequisite: Art I

Art II offers the student an environment to build upon the skills developed in Art I. This course is recommended for creative students who enjoy hands-on projects and want to explore art as a form of expression. The ability to work independently and be self-motivated is essential. Students will begin to pursue a personal approach and style. Critical thinking, reading, and writing skills are needed. This class could be used as a fulfillment of the Elective Focus Option with the addition of AP Art & Design 2-D, 3-D or Drawing.

Art III

Grades 10-12; Prerequisite: Art I & II

Combines writing and art skills, as a means of artistic expression, into a form of basic advertising and communication. Graphic design, drawing, composition, lettering, calligraphy, and printmaking are included. This class could be used as a fulfillment of the Elective Focus Option with the addition of AP Art & Design 2-D, 3-D, or Drawing.

Advanced Placement Studio Art 2-D Design (year-long)

Grades 10-12; Prerequisite: Teacher recommendation

Advanced Placement Art & Design is a year-long course that is an intensive and in-depth study of two-dimensional design. Students will create a series of works exploring a personal concept. Experimentation, revision of ideas and works, demonstration of strong technical skills, and synthesis of media, process and concept is expected of all students. Critical thinking, reading, and writing skills are required, as is the ability to work independently and be self-motivated. In May, students are required to submit a complete portfolio to AP Central for scoring. This class could be used as a fulfillment of the Elective Focus Option.

Advanced Placement Art & Design: Drawing (year-long)

Grades 10-12; Prerequisite: Teacher recommendation

Advanced Placement Art & Design is a year-long course that is an intensive and in-depth study of Drawing. Students will create a series of works exploring a personal concept. Experimentation, revision of ideas and works, demonstration of strong technical skills, and synthesis of media, process and concept is expected of all students. Critical thinking, reading, and writing skills are required, as is the ability to work independently and be self-motivated. In May, students are required to submit a complete portfolio to AP Central for scoring. This class could be used as a fulfillment of the Elective Focus Option.

Advanced Placement Art & Design: 3D Design (year-long)
Grades 10-12; must have successfully completed AP Art & Design Drawing and 2D Design portfolios
Advanced Placement Art & Design is a year-long course that is an intensive and in-depth study of three-dimensional design. Students will create a series of works exploring a personal concept. Experimentation, revision of ideas and works, demonstration of strong technical skills, and synthesis of media, process and concept is expected of all students. Critical thinking, reading, and writing skills are required, as is the ability to work independently and be self-motivated. In May, students are required to submit a complete portfolio to AP Central for scoring. This class could be used as a fulfillment of the Elective Focus Option.

General Band I, II, III, IV (Fall)
Grades 9-12
For students with advanced musical and marching ability who have been selected by auditions given each summer. This band participates in parades, competitions, athletic half time performances, etc. Several of the events are out of town.

Concert Band I, II, III, IV (Spring)
Grades 9-12
For students with advanced musical ability who have been selected through an audition process. This class covers a variety of styles of music as it prepares for concerts and competitions.

Chorus I (Beginning Chorus)
Grades 9-12
In Chorus I, students will develop performance-based skills and techniques; work on reading, notating, and evaluating music; and gain practice with analysis and description of music. Cultural and historical context will be studied. Chorus classes at MHHSE are performance-based ensembles designed to give the student the opportunity to develop and improve individual musical and vocal skills. Since these ensembles are performance based, the student is required to attend all extra-curricular activities including after school rehearsals and performances.

Chorus (Women's and Concert Choir)
Grade 9-12; Prerequisite: audition by choral instructor
This ensemble is for students of voice. Emphasis is placed on development of proper vocal tone, basic music theory, sight singing, music history, creative self-expression and vocal performance. Attendance for all rehearsals and performances is mandatory. Uniforms are required and may be either purchased or rented each year.

Chorus (Advanced)
Grades 10-12 (2 terms); Prerequisite: audition by choral instructor
This ensemble is an advanced level course requiring a yearly commitment to excellence in vocal music performance for boys and girls. A wide range of choral literature will be explored from various periods and cultures, with the goal of performing at the highest level possible. Attendance for all rehearsals and performances is mandatory. Uniforms are required and may be either purchased or rented each year.

Theatre Arts I/II/III
Grades 9-12
Theatre Arts is a mixed-level ensemble course with focus on acting, public speaking, script-writing, and backstage jobs such as directing, stage management, and theatrical design. Through hands-on projects, students learn to problem-solve, collaborate with others, and overcome challenges as a team. By performing in class, students learn to step outside their comfort zone, build confidence, and persevere through difficulties as they take on many people's greatest fear—speaking in front of others.

Theatre Arts- Forensics

Grades 9-12

Theatre Arts (Speech & Debate) is a mixed-level ensemble course with focus on competitive acting, public speaking, and debate. Students in this course are required to attend tournaments hosted by the Tennessee High School Speech & Drama League (THSSDL) and the National Speech & Debate Association (NSDA). Other competition opportunities are offered based on availability. Speech & Debate allows students to undergo in-depth exploration on topics of their choice that align with THSSDL and NSDA competition standards. Through competition, students have the opportunity to earn scholarship money and/or earn graduation distinction by placing at State or National levels.

PHYSICAL EDUCATION COURSES

Lifetime Wellness

Grade 9

In this course, through a combination of health and physical fitness students will: (A) apply knowledge of the human body to make decisions related to nutrition, mental and physical health promotion, injury prevention, and disease prevention and control; (B) learn to make correct decisions related to nicotine, alcohol, and substance abuse prevention; (C) develop a plan for maintaining personal fitness and health; and (D) demonstrate individual development in fitness and psychomotor skills to promote lifelong physical activity.

Physical Education II - Weight Training

Grades 10-12

A major fitness goal at the high school level is to build a positive attitude toward good physical health. This program offers a variety of activities, including flexibility, calisthenics, weightlifting, strength and conditioning, agility drills, rope jumping and running.

Physical Education II - Games

Grades 10-12

This class is designed for students interested in learning skills and strategies of team sports and games. Sports may include, but are not limited to: basketball, flag football, soccer, and volleyball. This course will also include daily cardiovascular fitness.

SPECIAL EDUCATION SERVICES

Special Education Services

Grades 9-12

The Special Education Program at East High School offers a variety of courses taught on various grade levels which are designed to meet the needs of the students.

Alternative Academic Diploma Services

Grades 9-12

This program is designed to meet the special needs of students with extensive learning disabilities which prohibit their educational needs being met in the traditional classroom environment.

AIR FORCE JROTC COURSES

JROTC I—Aerospace Science I

Grades 9-12

A Leadership Development Program embedded within the High School Experience. Focus on Leadership Education, Aerospace Science and fitness training. Cadets wear AFJROTC uniform all school day once a week and maintain grooming standards. Males cut their hair off the ears/eyebrows and be tapered, within Air Force standards. Cadets perform physical training (PT) once a week and wear AFJROTC issued PT uniforms. Cost: $10 class fee, professionally dry-cleaned uniforms at cadets cost. Cadets responsible for maintaining uniforms. Overview of aerospace science and furthers the building of basic knowledge and skills to function in today's technical world. Studies include the history of flight, modern aerospace developments, attitude and discipline, study habits and time management, health and wellness, and drill ceremonies. We offer field trips and have afterschool teams including Color Guard, Drill, Drone, Saber and other programs.

JROTC II—Aerospace Science II

Grades 9-12

A Leadership Development Program embedded within the High School Experience. Focus on Leadership Education, Aerospace Science and fitness training. Cadets wear AFJROTC uniform all school day once a week and maintain grooming standards. Males cut their hair off the ears/eyebrows and be tapered, within Air Force standards. Cadets perform physical training (PT) once a week and wear AFJROTC issued PT uniforms. Cost: $10 class fee, professionally dry-cleaned uniforms at cadets cost. Cadets responsible for maintaining uniforms. This course helps students develop knowledge of the cause of weather, the effects of flight on the human body, aircraft flight, and air navigation. Leadership training is further developed to permit that student to function as part of the cadet staff and lead in co-curricular activities, such as parades and color guards. We offer field trips and have afterschool teams including Color Guard, Drill, Drone, Saber and other programs

JROTC III—Aerospace Science III

Grades 9-12

A Leadership Development Program embedded within the High School Experience. Focus on Leadership Education, Aerospace Science and fitness training. Cadets wear AFJROTC uniform all school day once a week and maintain grooming standards. Males cut their hair off the ears/eyebrows and be tapered, within Air Force standards. Cadets perform physical training (PT) once a week and wear AFJROTC issued PT uniforms. Cost: $10 class fee, professionally dry-cleaned uniforms at cadets cost. Cadets responsible for maintaining uniforms. This course provides an exploration of space and an introduction to astronomy. Students learn the history of astronomy, including introductory Newtonian astrophysics; the Earth's physical properties; the Moon's characteristics and effect on the Earth; and the make-up of the Solar System. Human relations, communications skills, logic and problem solving are further developed in the leadership phase. We offer field trips and have afterschool teams including Color Guard, Drill, Drone, Saber and other programs

JROTC IV—Aerospace Science IV

Grades 9-12

A Leadership Development Program embedded within the High School Experience. Focus on Leadership Education, Aerospace Science and fitness training. Cadets wear AFJROTC uniform all school day once a week and maintain grooming standards. Males cut their hair off the ears/eyebrows and be tapered, within Air Force standards. Cadets perform physical training (PT) once a week and wear AFJROTC issued PT uniforms. Cost: $10 class fee, professionally dry-cleaned uniforms at cadets cost. Cadets responsible for maintaining uniforms. This course of aerospace studies provides an emphasis upon developing the individual's knowledge of leadership and communicative skills. Academics include life success skills, including the unlocking Your Potential series, the National Endowment for Financial education Program, High School Financial Planning, and other management skills needed to lead a Corps of Cadets. Emphasis is placed on participating in the overall operation of the cadet organization and competitive drill as hands-on training. Field trips and a variety of co-curricular activities, planned and carried out by the students, are important parts of the course. We offer field trips and have afterschool teams including Color Guard, Drill, Drone, Saber and other programs.

ADVANCED MANUFACTURING COURSES

Principles of Manufacturing (Offered at Morristown West)

Grades 9-10

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, Electromechanical Technology, Mechatronics, and Welding. In order 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.

Introduction to Industrial Maintenance (Formerly known as Introduction to Electromechanical) (Offered at Morristown West)

Grades 10-11; Prerequisite: Principles of Manufacturing

Introduction to Industrial Maintenance is a foundational course that introduces students to basic electro-mechanical skills necessary in a manufacturing facility. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems. Upon completion of this course, proficient students will be able to understand, describe and troubleshoot electromechanical systems.

Dual Enrollment Industrial Maintenance Technology I (Offered at Morristown West)

Grades 11-12; Prerequisites: Principles of Manufacturing, Introduction to Industrial Maintenance

Dual Enrollment Industrial Maintenance Technology I is designed to provide students with the knowledge and skills to effectively perform basic industrial maintenance procedures in an advanced manufacturing facility. Students in this course develop proficiency in a vast array of electromechanical domains, including: fundamental safety practices in electromechanical technology, shielded metal arc welding (SMAW), basic metal inert gas (MIG) welding, electrical systems, AC and DC motors, calibrating instruments, drive systems, pipe fabrication, hydraulic systems, pumps, digital electronics, programmable logic controllers (PLC), and troubleshooting procedures. Upon completion of this course, proficient students will be prepared to pursue postsecondary electromechanical technology programs and entry-level industrial maintenance technology careers in the advanced manufacturing industry.

Principles of Machining I (Offered at Morristown West)

Grades 10-11; Prerequisite: Principles of Manufacturing

Principles of Machining I is designed to provide students with the skills and knowledge to be effective in production environments as a machinist, CNC operator, or supervisor. Upon completion of this course, proficient students will demonstrate safety practices concerning machining technology, proper measurement and layout techniques, reading and interpreting drawings and blueprints, production design processes, and quality control procedures. Upon completion of this course, students will be knowledgeable about potential postsecondary education and career opportunities related to machining technology and will be prepared to enroll in more advanced machining courses in high school.

Principles of Machining II (Offered at Morristown West)

Grades 11-12; Prerequisites: Principles of Manufacturing, Principles of Machining I

Principles of Machining II is an advanced level contextual course that builds on the introductory skills learned in the entry-level manufacturing and machining courses, stressing the concepts and practices in a production environment supported by advanced machining and engineering facilities. Working with the course instructor and team members in a cooperative learning environment, students will design, produce, and maintain products that are defined by detailed technical specifications. Emphasis is placed on quality control, safety and engineering codes and standards, and production-grade machining systems, building on the learner's past knowledge, current experiences, and future conduct as a career machinist. Upon completion of this course, proficient students will be able to examine blueprints and specification drawings to plan and implement the manufacture of products, machine parts to specifications using both manual and computer controlled machine tools, and measure, examine, and test completed products to check for defects and conformance to specifications.

Dual Enrollment Machining (Offered at Morristown West)

Grades 11-12; Prerequisites: Principles of Manufacturing, Principles of Machining I, Principles of Machining II

Machining - The work of machine tool operators, machinists, tool and die makers, industrial maintenance personnel and those in related occupations requires skill in machining metal by such machine tools as milling machines, lathes, grinders, drill presses, CNC milling machines, EDM machines and the ability to use precision measuring tools. The course in the machine shop is designed to give students experience on a variety of machine tools similar to those on which they will work after graduation. Instruction is given in related blueprint reading and mathematics, precision measuring, and such basic metallurgy as properties of metals, their workable characteristics, best treatment of metals, and relative hardness.

Welding I (Offered at Morristown West)

Grades 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 understand the requirements to pursue the American Welding Society (AWS) Entry Welder qualification and examination and will be prepared to undertake more advanced welding coursework.

Welding II (Offered at Morristown West)

Grades 11-12; Prerequisites: Principles of Manufacturing, Welding I

Welding II is designed to provide students with opportunities to effectively perform cutting and welding applications of increasing complexity used in the advanced manufacturing industry. Proficient students will build on the knowledge and skills of the Welding I course and apply them in novel environments, while learning additional welding techniques not covered in previous courses. Specifically, students will be proficient in (1) fundamental safety practices in welding, (2) gas metal arc welding (GMAW), (3) flux cored arc welding (FCAW), (4) gas tungsten arc welding (GTAW), and (5) quality control methods. Upon completion of the Welding II course, proficient students will be eligible to complete the American Welding Society (AWS) Entry Welder qualification and certification.

Dual Enrollment Welding (Offered at Morristown West)

Grades 11-12; Prerequisites: Principles of Manufacturing, Welding I, Welding II

Welding - The Welding program is designed to teach individuals how to weld various metals using different types of welding processes. The student begins with basic welding processes and techniques and then advances into processes such as pipe and tig welding. Students may elect to take the full course or may learn only one or two areas, such as mig welding for a production job or to upgrade current skills.

Manufacturing Practicum (Offered at Morristown West)

Grades 11-12; Prerequisite: min. of 3 credits in an Advanced Manufacturing program of study

Manufacturing Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Advanced Manufacturing courses within a professional, working environment. While continuing to add to their technical skill sets, students in this course assume increasing responsibility for overseeing manufacturing processes and managing complex projects. Specifically, proficient students will be able to work in teams to plan the production of a sophisticated product; develop troubleshooting and problem-solving mechanisms to ensure that projects run smoothly; analyze output and compile professional reports; and connect practicum activities to career and postsecondary opportunities. For all projects undertaken in this course, students are expected to follow the focus area in their chosen program of study (Machining Technology, Electromechanical Technology, Mechatronics, or Welding), while also refining skills previously acquired to achieve deeper levels of mastery. Upon completion of the practicum, proficient students will be prepared for postsecondary study and career advancement in their chosen focus area.

AGRICULTURE COURSES

Agriscience

Grades 9-10

This is an introductory laboratory science course that prepares students for biology, subsequent science and agriculture courses, and postsecondary study. This course helps students understand the important role that agricultural science and technology serves in the 21st century. In addition, it serves as the first course for all programs of study in the Agriculture, Food and Natural Resources Cluster. This course counts as a lab science credit toward graduation and college entrance requirements. This course is the foundational course for all Agriculture, Food and Natural Resources programs of study.

Principles of Plant Science and Hydroculture (Offered at Morristown West)

Grades 10-11; Prerequisite: Agriscience

Principles of Plant Science and Hydroculture focuses on essential knowledge and skills related to the science of plant growth. This course covers principles of plant health, growth, reproduction, and biotechnology, as well as fundamental principles of hydroponics and aquaponics.

Greenhouse Management (Offered at Morristown West)

Grades 11-12; Prerequisites: Agriscience, Principles of Plant Science and Hydroculture

Greenhouse Management is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. It provides students with the technical knowledge and skills needed to prepare for further education and careers in horticulture production.

Landscaping and Turf Science (Offered at Morristown West)

Grades 11-12; Prerequisites: Agriscience, Principles of Plant Science, Greenhouse Management

Landscaping and Turf Science is an applied-knowledge course designed to provide challenging academic standards and relevant technical knowledge and skills needed for further education and careers in landscape design, maintenance, and turf management. Content includes site analysis and planning, principles of design, and plant selection and care techniques.

Principles of Agricultural Mechanics & Construction

Grades 10-11; Prerequisite: Agriscience

Principles of Agricultural Mechanics is a course introducing students to basic skills and knowledge in construction and land management for both rural and urban environments. This course covers topics including project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking techniques.

Agriculture Power and Equipment

Grades 11-12; Prerequisites: Agriscience, Principles of Agricultural Mechanics

Agricultural Power and Equipment is an applied course in agricultural engineering with special emphasis on laboratory activities involving small engines, tractors, and agricultural equipment. The standards in this course address navigation, maintenance, repair, and overhaul of electrical motors, hydraulic systems, and fuel‧ powered engines as well as exploration of a wide range of careers in agricultural mechanics. Upon

completion of this course, proficient students will be able to pursue advanced training in agricultural engineering and related fields at a postsecondary institution.

Agricultural and Biosystems Engineering

Grades 11-12; Prerequisites: Agriscience, Principles of Ag Mechanics, Ag Power and Equipment

Agricultural and Biosystems Engineering is an applied course that prepares students for further study or careers in engineering, environmental science, agricultural design and research, and agricultural mechanics. Special emphasis is given to the many modern applications of geographic information systems (GIS) and global positioning systems (GPS) to achieve various agricultural goals.

Small Animal Science

Grades 10-11; Prerequisite: Agriscience

Small Animal Science is an intermediate course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of small animals, as well as careers, leadership, and history of the industry. Upon completion of this course, proficient students will be prepared for more advanced coursework in veterinary and animal science.

Large Animal Science

Grades 11-12; Prerequisites: Agriscience, Small Animal Science

Large Animal Science is an applied course in veterinary and animal science for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agriculture professions. This course covers anatomy and physiological systems of different groups of large animals, as well as careers, leadership, and history of the industry. Upon completion of this course, proficient students will be prepared for success in the level-four Veterinary Science course and further postsecondary training.

ARCHITECTURE AND CONSTRUCTION

Architectural & Engineering Design I

Grades 9-12

Architectural & Engineering Design I is a foundational course in the Architecture & Construction cluster for students interested in a variety of engineering and design professions. Upon completion of this course, proficient students will be able to create technical drawings of increasing complexity, and utilize these skills to complete the design process and communicate project outcomes. Students will build foundational skills in freehand sketching, fundamental technical drawing, and related measurement and math. Standards in this course also include career exploration within the technical design industry, as well as an overview of the history and impact of architecture and engineering. In addition, students will begin compiling artifacts for inclusion in a portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

Architectural & Engineering Design II

Grades 9-12

Architectural & Engineering Design II is the second course in the Architectural & Engineering Design program of study. Students in this course build their skills in developing and representing design ideas using technical drawing and modeling techniques, and apply the design process to solve design problems. Upon completion of this course, proficient students will be able to use computer aided drafting (CAD) software to create multi-view, sectional view, auxiliary view, and three-dimensional drawings using industry standard dimensioning and notation. Students will connect drawings with actual physical layouts by building models based on drawings, creating drawings based on objects and other physical layouts, and using software to create basic three-dimensional models. In addition, students will continue compiling artifacts for inclusion in a portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

Architectural & Engineering Design III

Grades 9-12

Architectural & Engineering Design III is the third course in the Architectural & Engineering Design program of study. In this advanced course, students will apply technical drawing and design skills developed in the previous courses to specific architectural and mechanical design projects and contexts. In the process, students will expand their problem-solving and critical-thinking skills by assessing the requirements of a project alongside the available resources in order to accomplish realistic planning. Upon completion of this course, proficient students will be able to employ methods of data collection and analysis to provide others with appropriate information for projects and to develop their own designs. Students will also be able to engage with industry-specific technology to create visual representations of project outcomes. In addition, students will continue compiling artifacts for inclusion in a portfolio, which they will carry with them throughout the full sequence of courses in this program of study.

Fundamentals of Construction (Offered at Morristown West)

Grades 9-10

Fundamentals of Construction is a foundational course in the Architecture & Construction cluster 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.

Standards in this course also include an overview of the construction industry and an introduction to building systems and materials. Students will begin compiling artifacts for inclusion in their portfolios, which they will carry with them throughout the full sequence of courses in their selected program of study.

Residential & Commercial Construction I (Offered at Morristown West)

Grades 10-11; Prerequisite: Fundamentals of Construction I

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 & Commercial Construction II (Offered at Morristown West)

Grades 11-12; Prerequisite: Fundamentals of Construction, Residential & Commercial Construction I

Residential & Commercial Construction II is the third 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 later phases of building construction including roofing systems, exterior finishing, stair framing systems, masonry systems, and plumbing systems. Students will be able to perform masonry work; frame roofs; install shingles on roofs; apply exterior finishes; and install proper piping for plumbing systems 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 an introduction to heating, ventilation, and air conditioning systems, 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.

AUDIO/VISUAL PRODUCTION & DIGITAL ARTS COURSES

A/V Production I

Grades 9-10

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

A/V Production II

Grades 10-11; Prerequisite: A/V Production I

This offered in the audio and video technology sub-cluster to students who have completed Broadcasting I or obtained instructor's approval. Course content focuses on broadcast production technologies utilizing simulated and/or real-life projects. This course centers on production of various broadcasting products including commercials, music, news, and interactive programming. The student will gain valuable insight into the many facets of broadcast production, including but not limited to concept creation, scripting, sound design, visual design, engineering, editing, budgeting, and producing, as well as exploring some of the latest advances in industry technology. Upon completion of this course, students will be prepared to pursue advanced coursework.

A/V Production III

Grades 11-12; Prerequisites: A/V Production I, II

This offered in the Journalism and Broadcasting sub-cluster to students who have completed Broadcasting I and Broadcasting II or obtained the instructor's approval. This course focuses on simulated real-life broadcast production and management. Projects center on in-house production of newscasts, special events, and original programming. The student will gain valuable insight into both audio and video sides of the broadcasting industry. Course content is composed of scripting, reporting, directing, editing, budgeting, and producing, as well as cameras, lights, sound, and set design. This course will explore the latest digital technology and applications, research, and future trends in the broadcast industry. Upon completion of this course students will be prepared to pursue postsecondary education or enter the broadcasting industry in an entry level position. The educational laboratories will assimilate broadcast facilities in the broadcast industry.

AUTOMOTIVE COURSES

Maintenance and Light Repair I (Offered at Morristown West)
Grades 9-10
This course prepares students for entry into Maintenance and Light Repair II. 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, shop operations, basic engine fundamentals, and basic technician skills. Upon completing all of the MLR courses, students are eligible to earn a student ASE MLR Certification.

Maintenance and Light Repair II (Offered at Morristown West)
Grades 10-11; Prerequisite: MLR I
This course prepares students for entry into Maintenance and Light Repair III. Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories. Upon completing all of the MLR courses, students are eligible to earn a student ASE MLR Certification.

Maintenance and Light Repair III (Offered at Morristown West)
Grades 11-12; Prerequisites: MLR II (offered academic years beginning with odd numbers)
This course prepares students for entry into Maintenance and Light Repair IV. Students study and service suspension and steering systems and brake systems. Upon completing all of the MLR courses, students are eligible to earn a student ASE MLR Certification.

Maintenance and Light Repair IV (Offered at Morristown West)
Grades 11-12; Prerequisites: MLR II (offered academic years beginning with even numbers)
The Maintenance and Light Repair IV class prepares students for entry into the automotive workforce or into post-secondary training. Students study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, and practice workplace soft skills. Upon completing all of the MLR courses, students are eligible to earn a student ASE MLR Certification.

BUSINESS & MARKETING COURSES

Accounting I

Grades 10-11; Prerequisite: Intro to Business and Marketing

Accounting I introduces concepts and principles based on a double-entry system of maintaining the electronic and manual financial records for a sole proprietorship, partnership and corporation. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements.

Accounting II

Grades 11-12; Prerequisites: Intro to Business and Marketing; Accounting I

Accounting II is an advanced study of concepts, principles and techniques that build on the competencies acquired in Accounting I used in keeping the electronic and manual financial records of a sole proprietorship, partnership and corporation. Departmental, management, cost and not-for-profit accounting systems are explored.

Advanced Computer Applications

Grades 11-12; Prerequisite: Computer Applications, Business Communications, Business Management

This course offers many Early Post-Secondary opportunities. Students have the chance to earn 3 industry certifications as a Microsoft Office Specialist. If a student passes one certification, he or she may graduate with distinction if a 3.0 GPA is upheld. Also, students may take a Dual Enrollment test at Walters State Community College at the end of the course. If the WSCC test is passed, students receive 3 hours college credit at WSCC for a $25 fee. Students with Microsoft Office Specialist certifications will also be considered for summer internships with industry. This course is for students who want to advance their basic computer applications skills to be ready for job placement and upper level technology courses in college utilizing Microsoft Office Word, Excel, and PowerPoint. Students increase their employability by working toward the attainment of high level skills in the areas of integrated software applications, communication skills, ethical issues, human relations, leadership, self-management, and workplace management.

Business Communication

Grades 10-12; Prerequisite: Computer Applications

Is a course designed to develop students' effective oral and electronic business communications skills. This course develops skills in multiple methods of communications, including social media, as well as electronic publishing, design, layout, composition, and video conferencing. Upon completion of this course, proficient students will be able to demonstrate successful styles and methods for professional business communications using the proper tools to deliver effective publications and presentations.

Business Management

Grades 10-12; Prerequisite: Computer Applications, Business Communication

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

Computer Applications

Grades 9-10

This course is designed to develop computer technology skills. Students will improve keying net words per minute. Students will utilize Microsoft Office Word, Excel, PowerPoint, and Access. The students will develop skills that will assist them with efficient production; accurate production analysis; management of information and design and presentation of a multimedia project. Most higher education programs and the workforce require basic computer skills.

Introduction to Business and Marketing

Grades 9-10

This is an introductory course designed to give students an overview of the Business Management and Administration, Marketing, and Finance career clusters. The course helps students prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communications, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with the foundational skills to succeed in any of the Business, Marketing, or Finance programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards in Mathematics, and Tennessee Economics standards.

Marketing and Management I - Principles

Grades 10-12; Prerequisite: Introduction to Business and Marketing

This course's focus is on the study of marketing concepts and their practical application. Students will examine risks and challenges marketers face to establish a competitive edge. Subject matter includes economics, marketing foundations / functions and human resource leadership development. Skills in communication, mathematics, economics and psychology are reinforced in this course. *This can substitute for Economics but students would have to take the Personal Finance Class. Membership in DECA recommended.*

Marketing and Management II - Advanced Strategies

Grades 11-12; Prerequisite: Introduction to Business and Marketing and Marketing and Management I

Marketing and Management II: Advanced Strategies 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.

WBL: Yearbook

Grades 10-12 The yearbook advisor must accept a student from an application and teacher recommendation.
This course covers all of the necessary skills that are essential for the production of the school annual. Students must be strong writers and proficient in technology. Students are expected to be able to work independently and in teams to meet deadlines. Students are responsible for selling ads in the community and attending events for event coverage outside of school hours. Students must produce work without error. Classroom activities involve the following: photography, selling ads, writing captions, art work, organization of layout, collection of deposits, and picture and yearbook distribution.

Work-Based Learning

Grade 12

Each student will be required to stay in school for all four periods except for 11th and 12th graders who are enrolled in work-based learning programs. They may be dismissed early (1:40) in order to report to work prior to 3:00 pm. Students may only leave early if their job requires it, if they have met all other graduation requirements, and have parental permission. Students must be employed to be eligible for work release and must bring documentation of employment at the beginning of the year. The documentation must be on company letterhead, must state at what time the student is expected to report to work, and have a supervisor's signature. Students must have written parental permission to register for work release. One work credit is earned each semester. In order to earn one work credit, a student must average 18 hours of work per week. A total of 320 hours is required to earn one work credit.

COSMETOLOGY COURSES

Cosmetology I

Grades 10-11

This course is designed to introduce you to an exciting career as a professional cosmetologist. You will be introduced to hair and scalp care, hair cutting, hairstyling techniques, nail care and cosmetic applications. These procedures will enhance the beauty and attractiveness of you and your future clients. As you progress through your training, you will gain hands-on experience and the added confidence to excel in the beauty industry.

Cosmetology II – Design Principles of Cosmetology

Grades 10-11; Prerequisite: Cosmetology I; 2 credits (back-to-back in same semester)

This course is designed to advance your knowledge and skills in haircutting, hair styling techniques, nail care and skin care in a salon setting. You will also be introduced to chemical procedures performed in the salon such as permanent waving, chemical relaxing and hair coloring.

Cosmetology III – Chemistry of Cosmetology

Grades 11-12; Prerequisite: Cosmetology I, II; 2 credits (back-to-back in same semester)

This is an advanced course designed for the aspiring cosmetologist. In this class, you will perform work related services using chemicals. You will apply your knowledge and skill in performing hair coloring, permanent waving and chemical relaxing. You will receive advanced training in nail care including the application of artificial nails. Each student will have the opportunity to compete in local, regional and state competitions. Upon completion of this course, you will be ready to advance into a technical or private school to prepare for licensure as a cosmetologist.

CRIMINAL JUSTICE & CORRECTIONAL SERVICES COURSES

Criminal Justice I

Grades 9-10

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

Criminal Justice II

Grades 10-11; Prerequisite: Criminal Justice I

Criminal Justice II will offer an in-depth study of criminal justice careers in which current issues will be discussed and debated. Local, state, and federal 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 is designed to assist students with success in passing the WSCC Dual Credit exam and preparing students for future success on the Introduction to Criminal Justice Statewide Dual Credit exam.

Criminal Justice III

Grades 11-12; Prerequisites: Criminal Justice I, II

Criminal Justice III is designed to equip students with the knowledge and skills to be successful in the sciences of criminal investigations. Students will learn terminology and investigation skills related to the crime scene, aspects of criminal behavior, and applications of the scientific inquiry to solve crimes. By utilizing the scientific inquiry method, students will obtain and analyze evidence through simulated crime scenes and evaluation of case studies. Upon completion of this course, proficient students will be able to identify careers in forensic science and criminology, summarize the laws that govern the application of forensic science, and draw key connections between the history of the forensic science system and the modern legal system.

EDUCATION AND TRAINING COURSES

Fundamentals of Education

Grades 9-10

Fundamentals of Education is a foundational course in the Education and Training career cluster for students interested in learning more about becoming a school counselor, teacher, librarian, or speech-language pathologist. This course covers the history of education in the United States, careers in education, and the influence of human development on learning.

Teaching as a Profession I (TAP I)

Grades 10-11; Prerequisite: Fundamentals of Education

TAP I is an applied-knowledge course for students interested in learning more about becoming a school counselor, teacher, librarian, or speech-language pathologist. This course covers the components of instruction, teaching strategies, types of assessments, student learning, special populations, and educational technology. Students in this course will conduct observations of educators at work and create artifacts for a course portfolio.

Teaching as a Profession II (TAP II)

Grade 11-12; Prerequisites: Fundamentals of Education, TAP I

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

Teaching as a Profession III (TAP III) Dual Enrollment

Grade 11-12; Prerequisites: Fundamentals, TAP 1, TAP 2

This course will *survey* the historical, sociological, and philosophical foundations of American education. A passing grade in this course will grant college credit and high school credit. This course completes the Teaching as a Profession sequence. This is a dual enrollment course provided through Carson Newman University. The class at Carson Newman is EDUC 203 Foundations of Education.

Early Childhood Education I (Offered at Morristown West)

Grades 9-10

This course is a foundational course in the Education and Training career cluster intended to prepare students for careers as preschool teachers, elementary teachers, childcare providers, nannies, and more. Course content covers the foundation of childhood development services, careers, provider responsibilities and aptitudes, and fundamentals of child development. Upon completion of this course, students will have created artifacts for inclusion in a course portfolio, which will continue with them throughout the program of study.

Early Childhood Education II (Offered at Morristown West)

Grade 11-12; Prerequisites: Early Childhood Education I

This course is an intermediate course for students interested in learning more about becoming an early childhood teacher, elementary teacher, nanny, or childcare provider. This course covers the components of curriculum planning, learning, screening and assessing, special populations, and educational technology. Students will observe educators in action, practice specific skills, and add personal work products to a course portfolio. During this course, students working toward earning a Child Development Associate (CDA) credential should Page 2 begin recording hours toward the required 480—clock hours needed in working with children. Upon completion of this course, proficient students will be able to pursue more advanced coursework in the ECE program of study.

Early Childhood Education III (Offered at Morristown West)

Grades 10-12; Prerequisites: Early Childhood Education I & II

Early Childhood Education III is an applied-knowledge course for students interested in becoming an early childhood teacher, elementary teacher, nanny, or childcare provider. This course covers the components of the learning environment, planning age appropriate activities, using activities for learning, and developing communication skills. If available, students may participate in a work-based learning component of instruction and add work products to a course portfolio. Students continuing to work toward earning a Child Development Associate (CDA) credential should record hours toward the required 480—clock hours needed in working with children. Upon completion of this course, proficient students will be prepared to participate in the capstone course and/or continue their studies at the postsecondary level.

Early Childhood Education Careers IV (Offered at Morristown West)

Grades 11-12; Prerequisites: ECEC I, ECEC II, ECEC III

Early Childhood Education Careers IV (ECEC IV) is capstone course for students who intend to pursue advanced training as an early childhood teacher, elementary teacher, nanny, or childcare provider. The course standards cover understanding of the components of professionalism, policies, regulations, and teaching and learning. Students will participate in a work-based learning component of instruction and add work products to a course portfolio. Students continuing to work toward earning a Child Development Associate (CDA) credential should record hours toward the required 480—clock hours needed in working with children. Upon completion of this course, proficient students will be prepared to continue their studies at the postsecondary level.

ENGINEERING & TECHNOLOGY COURSES

Principles of Engineering & Technology (Offered at Morristown West)
Grades 9-10
This is a foundational course in the STEM cluster for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others.

Digital Electronics (Offered at Morristown West)
Grades 10-11; Prerequisite: Principles of Engineering & Technology
Digital Electronics is intended to provide students with an introduction to the basic components of digital electronic systems and equip them with the ability to use these components to design more complex digital systems. Proficient students will be able to (1) describe basic functions of digital components (including gates, flip flops, counters, and other devices upon which larger systems are designed), (2) use these devices as building blocks to design larger, more complex circuits, (3) implement these circuits using programmable devices, and (4) effectively communicate designs and systems. Students develop additional skill in technical documentation when operating and troubleshooting circuits. Upon completion of the Digital Electronics course, proficient students will be able to design a complex digital system and communicate their designs through a variety of media.

Robotics & Automated Systems (Offered at Morristown West)
Grades 11-12; Prerequisites: Principles of Engineering & Technology, Digital Electronics
This is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, proficient students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems. Note: Standards in this course are presented sequentially for students' learning progression; however, instructors may tailor the order of course standards to their specifications. Students are expected to use engineering notebooks to document procedures, design ideas, and other notes for all projects throughout the course.

Engineering Design I (Offered at Morristown West)
Grades 10-11; Prerequisite: Principles of Engineering & Technology
Engineering Design I is a fundamental course in the STEM cluster for students interested in developing their skills in preparation for careers in engineering and technology. The course covers essential knowledge, skills, and concepts required for postsecondary engineering and technology fields of study. Upon completion of this course, proficient students are able to describe various engineering disciplines, as well as admissions requirements for postsecondary engineering and engineering technology programs in Tennessee. They will also be able to identify simple and complex machines; calculate various ratios related to mechanisms; explain fundamental concepts related to energy; understand Ohm's Law; follow the steps in the engineering design process to complete a team project; and effectively communicate design solutions to others.

Engineering Design II (Offered at Morristown West)

Grades 11-12; Prerequisite: Principles of Engineering & Technology; Engineering Design I

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

Engineering Practicum

Grades 11-12; Prerequisites: Principles of Engineering & Technology, Digital Electronics

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

HEALTH SCIENCE COURSES

Health Science Education
Grades 9-10
This is an introductory course designed to prepare students to pursue careers in the fields of public health, 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.

Medical Therapeutics
Grades 10-11; Prerequisite: Health Science Education
This is an applied course designed to prepare students to pursue careers in therapeutic and nursing 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.

Anatomy and Physiology
Grades 10-12; Prerequisite: Health Science Education
This course covers the structure and functioning of the human body. The course begins with an introduction to the human body and the key chemistry concepts needed to understand its processes. Laboratory experiences are provided related to the body system being studied and will include microscopy, data collection and analysis, and extensive dissection activities. Students will be required to engage in critical thinking and problem solving activities as well as research based projects. This class is recommended for students pursuing a health-related career.

Rehabilitative Careers
Grades 10-11; Prerequisite: Health Science Education with a minimum C average
This is an applied course designed to prepare students to pursue careers in rehabilitation services. Upon completion of this course, a proficient student will be able to identify careers in rehabilitation services, recognize diseases, disorders or injuries related to rehabilitation services and correlate the related anatomy and physiology then develop a plan of treatment with appropriate modalities.

Exercise Science - Certified Personal Trainer
Grades 11-12; Prerequisites: Health Science Ed, Rehabilitative Careers, Human Anatomy & Physiology with a C or better. This class culminates with the student taking a national test to become a Certified Personal Trainer.
Exercise Science is an applied course designed to prepare students to pursue careers in kinesiology and exercise physiology services. Upon completion of this course, proficient students will be able to apply concepts of anatomy and physiology, physics, chemistry, bioenergetics, and kinesiology to specific exercise science contexts. Through these connections, students will understand the importance that exercise, nutrition, and rehabilitation play in athletes or patients with debilitating or acute metabolic, orthopedic, neurological, psychological, and cardiovascular disorders. In addition, students have the opportunity to incorporate communication, goal setting, and information collection skills in their coursework in preparation for future success in the workplace.

Exercise Science - Certified Physical Therapy Aide

Grades 11-12; Prerequisites: Health Science Education with a minimum C average, Rehabilitative Careers, Human Anatomy & Physiology with a C or better. This class culminates with the student taking a test to become a Physical Therapist Aide. The P.T. Aide credential is recognized throughout Tennessee and the country. Physical Therapist Aides can be employed in hospitals, clinics, doctors' offices, and other sport or rehabilitation facilities.

Exercise Science is an applied course designed to prepare students to pursue careers in kinesiology and exercise physiology services. Upon completion of this course, proficient students will be able to apply concepts of anatomy and physiology, physics, chemistry, bioenergetics, and kinesiology to specific exercise science contexts. Through these connections, students will understand the importance that exercise, nutrition, and rehabilitation play in athletes or patients with debilitating or acute metabolic, orthopedic, neurological, psychological, and cardiovascular disorders. In addition, students have the opportunity to incorporate communication, goal setting, and information collection skills to assist the physical therapist and the physical therapy assistant in the clinical setting. The credential earned is a great first step in the path to becoming a physical therapist.

Emergency Medical Services

Grades 11-12; Prerequisites: Health Science Education, Medical Therapeutics, Anatomy & Physiology

Emergency Medical Services is a capstone course in the Emergency Medical Services program of study and is designed to prepare students to pursue careers in the fields of emergency medicine. Upon completion of this course, proficient students will be able to: identify careers and features of the EMS system; define the importance of workforce safety and wellness; maintain legal and ethical guidelines; correlate anatomy and physiology concepts to the patient with a medical or traumatic injury; and perform EMS skills with a high level of proficiency. Students will be given the opportunity to sit for the National Emergency Medical Responder certification. In addition, students will continue to add artifacts to a portfolio, which they will continue to build throughout the program of study. Each standard presumes that the expected knowledge and behaviors are within the scope of practice for that EMS licensure level, as defined by the National EMS Scope of Practice Model. Each competency applies to patients of all ages, unless a specific age group is identified. Students will be given the opportunity to do ride-alongs with Morristown EMS and shadow EMS providers at home football games. Students must be 17 by completion of the course.

Medical Assisting

Grade 11-12; Prerequisites: Health Science Ed, Anatomy & Physiology, Medical Therapeutics

Medical Assisting is a level 2 or level 3 course designed to prepare students to pursue careers in medical assisting. Upon completion of this course, a proficient student will be able to implement communication and interpersonal skills, provide care safely, prevent emergency situations, prevent infection through infection control, and perform the skills required of a medical assistant. At the conclusion of this course and an appropriate clinical internship, students may sit for the Certified Clinical Medical Assistant (CCMA) exam.

Nursing Education Honors

Grades 11-12: Prerequisite: Health Science Ed, Medical Therapeutics, and Human Anatomy & Physiology; 16 years old

This is a capstone course designed to prepare students to pursue careers in the field of nursing. Upon completion of this course, a proficient student will be able to implement communication and interpersonal skills, maintain residents' rights and independence, provide care safely, prevent emergency situations, prevent infection through infection control, and perform the skills required of a nursing assistant. At the conclusion of this course, if students have logged a total of 80 hours which includes: 40 hours of classroom instruction, 20

hours of lab instruction, and 20 hours of site-based clinical, then they are eligible to take the certification examination as a Certified Nursing Assistant (CNA). 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.

Clinical Internship
Grade 12; Prerequisites: Health Science Ed, Anatomy & Physiology, and Medical Therapeutics and/or Rehabilitation Careers and/or Pharmacological Science and/or Nutrition Science & Diet Therapy
Clinical Internship is a capstone course and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in a prerequisite Health Science course. Upon completion of this course, proficient students will be able to pursue certification in the prerequisite course of Cardiovascular Services, Exercise Physiology, Medical Therapeutics, Pharmacological Services or Certified Clinical Medical Assistant.

Pharmacological Science (Spring Semester Only)
Grade 12; Prerequisites: Health Science, Anatomy & Physiology, or Medical Therapeutics.
Pharmacological Science is a third level applied course in the Therapeutic Services program of study intended to prepare students with an understanding of the roles and responsibilities of the healthcare worker in a pharmacy setting. This course equips students with the communication, goal-setting, and information-processing skills to be successful in the workforce, in addition to covering key topics in pharmacology, pharmacy law, and regulations, sterile and non-sterile compounding, medication safety, quality assurance, and more. Upon completion of this course, proficient students who have also completed a clinical internship, and are within 60 days of graduation, may sit for the Pharmacy Technician Certification Board examination. This course is also beneficial for the student wishing to pursue a career in Nursing. Requirements for the course: Students must be a senior, within 60 days of graduation, be able to drive themselves to the clinical site, provide documentation of a current physical, Immunizations, Medical Insurance, a valid Driver's License, and Automobile Insurance.

HOSPITALITY AND TOURISM COURSES

Culinary Arts I

Grades 9-11

Culinary Arts I equips students with the foundational knowledge and skills to pursue careers in the culinary field as competent entry-level quick service and fast food employees. Upon completion of this course, proficient students will have knowledge in the components of commercial kitchen safety and sanitation, history of the foodservice industry, hospitality careers, nutritional concepts, recipe basics, proper kitchen tools and equipment, and kitchen staples. Throughout the course students will gain experience in commercial food production and service operations, while preparing for further training in the culinary arts program of study at the secondary and postsecondary levels. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

Culinary Arts II

Grades 10-12; Prerequisite: Culinary Arts I

Culinary Arts II is an applied-knowledge course to prepare students for careers in the culinary field as a prep cook, line cook, catering assistant, and many other entry-level food and beverage industry career paths. Upon completion of this course, proficient students will have a working knowledge of commercial kitchen safety and sanitation, menu planning, food presentation, purchasing and inventory, cooking principles, and food preparation. Students will gain experience in commercial food production and service operations, while preparing for further training in the culinary arts program of study at the secondary and postsecondary levels. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

Culinary Arts III

Grades 11-12; Prerequisite: Culinary Arts I, Culinary Arts II

Culinary Arts III is an advanced course intended to further equip students with the skills and knowledge needed to pursue a variety of careers in the culinary field. Upon completion of the course, students will be proficient in components of commercial kitchen safety and sanitation, dining room service, food preparation and presentation, bakeshop preparation skills and equipment, and advanced cooking principles. Students will gain experience in commercial food production and service operations, while preparing for further training at the postsecondary level. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

Culinary Arts IV

Grades 11-12; Prerequisite: Culinary Arts I, Culinary Arts II, Culinary Arts III

Culinary Arts IV is the capstone course in the Culinary Arts program of study intended to prepare students for careers such as banquet cook, catering assistant, event planning assistant, and many other entry-level food and beverage industry career paths. Course content reinforces the components of commercial kitchen safety and sanitation, food presentation, bakeshop preparation skills, sustainability practices, professionalism, and business opportunities. Upon completion of this course, proficient students will have applied the full range of knowledge and skills acquired in this program of study toward the planning and catering of an event approved by the instructor. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

Hospitality and Tourism Management I

Grades 9-11

Hospitality and Tourism Management I is the foundational course for students interested in careers within the hospitality and tourism industry. The course allows students to explore the career opportunities and fundamental principles that guide the organization and management of the hospitality and tourism industry. Upon completion of this course, students will be proficient in the foundations of hospitality and tourism, industry segments, business concepts and operations, role of marketing, and customer relations.

Hospitality and Tourism Management II

Grades 10-12; Hospitality and Tourism Management I

Hospitality and Tourism Management II builds on the foundational course and an intermediate course for students interested in learning more about careers in the hospitality and tourism industry. This course covers multiple topics preparing students for the hospitality and tourism industry with the skills and knowledge in management, human resources, recruitment, career development, marketing, finances, economics, and customer services. Upon completion of this course, proficient students will be able to pursue more advanced coursework in the Hospitality and Tourism Management program of study.

Hospitality and Tourism Management III

Grades 11-12; Hospitality and Tourism Management III

Hospitality and Tourism Management III is an advanced course intended to further build on the knowledge and skills from previous courses and preparing students for a variety careers in the hospitality and tourism industry. This course covers multiple topics in employability and professionalism, international and global hospitality and tourism, legislation and governing laws, crisis preparedness and emergency procedures, marketing and selling, and financial applications. Upon completion of this course, proficient students will be able to pursue more advanced coursework in the Hospitality and Tourism Management program of study.

HUMAN SERVICES COURSES

Introduction to Human Studies

Grades 9-10

Introduction to Human Studies is a foundational course for students interested in becoming a public advocate, social worker, dietician, nutritionist, counselor, or community volunteer. This course covers the history of counseling, career investigation, stress management, mental illness, communication, and the counseling process.

Lifespan Development

Grades 10-12

Lifespan Development builds basic knowledge in human growth and development. The course standards include developmental theory, principles of growth, behavior of children from conception through adolescence, adult development and aging, and death and dying.

Family Studies

Grades 10-12

Family Studies is an applied knowledge course that examines the diversity and evolving structure of the modern family. Course standards focus on the demographic, historical, and social changes of interpersonal relationships, as well as parenting, and the effect of stressors on the family.

Nutrition Across the Lifespan

Grades 10-12

Nutrition Across the Lifespan is for students interested in learning more about becoming a dietitian, nutritionist, counselor, or pursuing a variety of scientific, health, or culinary arts professions. Upon completion of this course, proficient students will understand human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

Nutrition Science and Diet Therapy

Grades 10-12

Nutrition Science and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. Upon completion of this course, proficient students will be able to develop a nutrition care plan as part of the overall health care process, use methods for analyzing the nutritional health of a community, and understand the relationship of diet and nutrition to specific diseases. The course places emphasis on the role of diet as a contributor to disease and its role in the prevention and treatment of disease. Artifacts will be created for inclusion in a portfolio, which will continue to build throughout the program of study.

INFORMATION TECHNOLOGY COURSES

Computer Science Foundations

Grades 9-10

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

Coding I

Grades 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 multi step 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 II

Grades 11-12; Prerequisites: Computer Science Foundations, Coding I

Coding II challenges students to develop advanced skills in problem analysis, construction of algorithms, and computer implementation of algorithms as they work on programming projects of increased complexity. In doing so, they develop key skills of discernment and judgment as they must choose from among many languages, development environments, and strategies for the program life cycle. Course content is reinforced through numerous short- and long-term programming projects, accomplished both individually and in small groups. These projects are meant to hone the discipline and logical thinking skills necessary to craft error-free syntax for the writing and testing of programs. Upon completion of this course, proficient students will demonstrate an understanding of object-oriented programming language using high-level languages such as FOCUS, Python, or SAS.

Cybersecurity I

Grades 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.

Cybersecurity II

Grades 11-12; Prerequisites: Computer Science Foundations, Cybersecurity I.

Cybersecurity II challenges students to develop advanced skills in concepts and terminology of cybersecurity. This course builds on previous concepts introduced in Cybersecurity I while expanding the content to include malware threats, cryptography, wireless technologies and organizational security. Upon completion of this course, proficient students will be able to demonstrate an understanding of cybersecurity ethical decisions, malware threats, how to detect vulnerabilities, principles of cryptology, security techniques, contingency plan techniques, security analysis, risk management techniques, and advanced methods of cybersecurity.

AP Computer Science Principles

Grades 9–12

AP Computer Science Principles is a "Big Picture" course which covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. It is intended to be accessible to students even if they have never studied programming before. If taken senior year, this course can count as a fourth level math course.

AP Computer Science A

Grades 10–12

AP CS A is a programming course that introduces students to software engineering and object-oriented programming and design using the Java programming language. This curriculum covers a broad range of topics, including the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems.
If taken senior year, this course can count as a fourth level math course.