

MORRISTOWN-HAMBLEN HIGH SCHOOL EAST

“Where Traditions Begin”

Our Mission: To provide a safe environment that makes comprehensive learning the primary focus by offering an exemplary curriculum, promoting excellence in student performance, and encouraging personal development.

Our Vision: To be a flagship of excellence in the district, region, and state in academics, instruction, and the development of empowered learners who optimize academic and extracurricular opportunities.



**MORRISTOWN-HAMBLEN
HIGH SCHOOL EAST**

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Policies & Procedures

Planning Your Program of Study

The courses listed in this publication will help to prepare all students for their future educational and/or career goals. Please review this information and keep the following in mind for next year:

- Carefully review all graduation requirements
- Keep immediate and long range goals in mind
- Select courses that will fit your career and/or educational goals
- Complete the 6 year plan contained in this book

Student Responsibility

It is the student's responsibility to be familiar with the scheduling policies and procedures contained in this guide and to see that all graduation requirements are met.

Credits and Class Standing

Students are classified according to grade level and assigned to appropriate homerooms at the beginning of each school year. Placement is determined by the number of credits earned. The following minimum number of credits are used to determine the grade level of each student:

Sophomores	7 credits
Juniors	14 credits
Seniors	20 credits

Grading Scale and GPA

Credits are awarded based upon the final semester grade. The cumulative GPA is calculated from final semester grades. Graduation GPA is calculated after the fall semester of the senior year. Grade reporting is done at the end of each nine (9) weeks. A progress report will be distributed at the mid-point of each nine (9) weeks. The following grading scale is used:

Grading Scale		Quality Points
A 93-100	Excellent	4.0
B 85- 92	Above Average	3.0
C 75- 84	Average	2.0
D 70- 74	Below Average	1.0
F 69 and below	Failure	0.0

Graduation Requirements

A student must earn a minimum of 28 credits in the 9th through 12th grades, within four years and one summer, in order to graduate with a Morristown-Hamblen High School East diploma.

Students entering the 9th grade (Class of 2013) during the 2009-2010 school year, and all subsequent years, will follow new graduation requirements as approved by the Tennessee State Board of Education. These graduation requirements follow the program outlined in the Tennessee Diploma Project.

The number and type of requirements for each subject area are shown on the following page.

In addition to the course requirements outlined in the Tennessee Diploma Project, students will also take End-of-Course tests in eleven (11) core academic subjects. The scores on these tests will count as 25% of the final grade in that particular course. Students must pass the course in which an End-of-Course test is administered in order to receive a high school diploma.

In addition to a regular high school diploma, students will be eligible to be recognized with one of the following:

Graduation with Honors

- Students who score at or above all subject area readiness benchmarks on the ACT or equivalent score on the SAT.
 - ACT English Benchmark Score of 18
 - ACT Math Benchmark Score of 22
 - ACT Reading Benchmark Score of 21
 - ACT Science Benchmark Score of 24

Graduation with Distinction

- Students will attain a B average (GPA of 3.0 or higher) and complete at least one of the following:
 - * Earn a nationally recognized industry certification
 - * Participate in at least one of the Governor's Schools
 - * Participate in one of the state's All State musical organizations
 - * Be selected as a National Merit Finalist or Semi-Finalist
 - * Attain a 31 or higher composite score on the ACT
 - * Attain a score of 3 or higher on at least two AP exams
 - * Earn 12 or more semester hours of transcribed postsecondary credit

Policies & Procedures

Graduation Requirements

TN Diploma Project Requirements	# of Credits
English (Must include English I, II, III, & IV)	4
Mathematics (Must include Algebra I, Algebra II, Geometry & 1 additional advanced level math course) (Students will be required to take at least one mathematics course every year during high school)	4
Science (Must include Biology I and Chemistry or Physics and 1 additional lab science)	3
Social Studies (Must include World Geography, US History & US Government/Economics)	3
Wellness	1½
Personal Finance	½
*World Language	2
*Fine Art (Visual, Performing and/or Dramatic)	1
*Elective Focus (Must include a 3 course vocational/elective sequence in either Math and Science, Career and Technical Education, Fine Arts, Humanities, or Advanced Placement)	3
Additional Electives (Must include 1 credit in Computer Applications)	6
Total Credits to Graduate	28

***Fine Art, World Language, and Elective Focus – Total of 6 Credits:**

- Fine Art–1 Credit
- World Language–2 Credits (Same Language)
- Elective Focus–3 Credits
 - Students completing a Career and Technical Education (CTE) elective focus must complete three units in the same CTE program area or state approved program of study.
 - Science, Math, STEM, Humanities, Fine Art, or Advanced Placement
 - other area approved by local Board of Education
- The Fine Art and World Language requirements may be waived for students who are sure they are not going to attend a University and be replaced with courses designed to enhance and expand the elective focus.

Policies & Procedures

Weighted Courses

Advanced Placement (AP) courses with end-of-course exams will include the addition of five (5) points to the grades used to calculate the term average. Honors (H) courses and National Industry Certification courses will include the addition of three (3) points to the grades used to calculate the term average. Advanced Placement, National Industry, and honors courses will be approved annually by the Board. These additional points are required by the Tennessee Department of Education and are used to calculate a student's eligibility for the Lottery Scholarship.

In addition to these additional points, GPA's are also weighted to allow students to be competitive with other students from around the country when applying for various types of scholarships. For example, a B earned in a regular course typically translates into a 3.0 GPA. For an honors course the GPA will be 3.5 and for an AP course the GPA will be 4.0.

Honors Courses

Adv. Algebra/Trigonometry (H)	French III (H)
Aerospace Engineering (H)	Geometry (H)
Algebra I (H)	German III (H)
Algebra II (H)	Introduction to Engineering Design (H)
Bioenergy Research (H)	Medical Therapeutics—Pharmacy Tech (H)
Biology I (H)	Physical Science (H)
Biology II (H)	Physics (H)
Chemistry I (H)	PreCalculus (H)
Chemistry II (H)	Principles of Engineering (H)
Civil Engineering & Architecture (H)	Spanish III (H)
Computer Integrated Manufacturing (H)	US Government/Economics (H)
Digital Electronics (H)	US History (H)
Engineering Design & Development (H)	World History (H)—9th only
English I—IV (H)	

Advanced Placement Courses

AP Biology	AP German (West High)
AP Calculus I	AP Government US
AP Calculus II	AP Human Geography—9th only
AP Chemistry	AP Macroeconomics
AP English Language & Composition	AP Microeconomics
AP English Literature & Composition	AP Psychology
AP Environmental Science	AP Spanish (West High)
AP European History	AP US History
AP French (West High)	AP World History

Advanced Placement Testing

Students enrolled in Advanced Placement (AP) courses are required to take the Advanced Placement (AP) test given in May of each year in order to receive AP credit. Students who score a 3, 4, or 5 may be eligible to receive college credit or advanced placement in college. Please contact the individual college for more information about the acceptance of Advanced Placement (AP) test scores.

Honors and High Honors

Seniors who have maintained a 3.78 GPA or higher will graduate with high honors. Those maintaining a 3.50 to 3.77 GPA will graduate with honors. Recognition for honors and high honors will be determined after the completion of the fall semester of the senior year.

Dual Enrollment

Juniors and seniors have the opportunity to take Dual Enrollment classes at Walters State Community College. All 3 semester hour courses taken at the college level will be the equivalent of a 1/2 credit at the high school level. For example, a student must take Comp I **and** Comp II at Walters State in order to receive **one full** English IV credit at East High.

Presently, the cost is \$412 for a 3 hour course plus the cost of books. The Lottery Scholarship will pay \$300 toward this cost. The Lottery Scholarship will pay for one

class per semester starting in the junior year, totaling \$1,200 over a two year period. Students must have a GPA of 3.0 for enrollment and then maintain a GPA of 2.75 or better in all college level courses in order to continue to receive the Lottery Scholarship for dual enrollment courses. Students desiring to enroll in academic core courses, such as Comp I or Comp II must have an ACT English score of 21. Students desiring to enroll in a math course must have an ACT Math score of 21.

If you have any questions regarding dual enrollment, please speak with one of the guidance counselors and review dual enrollment requirements for the particular college or university

College Admission

It is never too early to begin considering where you would like to attend college, or to begin evaluating college admission requirements. College admission is based primarily on how well a student performs in high school. This performance is evaluated by the class rank, GPA, the rigor of the courses taken, and the scores earned on tests such as the ACT and/or SAT.

Colleges vary widely in their entrance requirements. Therefore, all students should refer to college catalogues and college counselors for additional information on admissions requirements. All students should review college requirements early in their high school career, especially if considering a private or very selective college.

Students who are considering applying for admission to a selective college or university should take the most rigorous and challenging college preparatory curriculum possible while in high school. The more demanding the course work, the better the chance that the student has for admission to the college of his/her choice.

A student's high school record is the single most important factor in gaining admission into college. Slightly lower grades in more rigorous courses may be more important than higher grades in easier courses. Honors (H) and Advanced Placement (AP) courses demonstrate the student's ability to handle the rigorous work required at the collegiate level. Selective colleges view the more rigorous work as an indication of the student's intellectual ability and desire to learn. College admissions officers take special note of Honors (H) and Advanced Placement (AP) courses on a student's high school transcript. Colleges and universities are also more concerned with a student's score on the ACT or SAT than they are with a student's GPA.

Schedule Change Policy

An extraordinary amount of time and effort is put into preparing the master schedule. Courses offered are determined by student interest and state curriculum requirements. Students should make their choices wisely as all schedule changes have a significant impact on class size, staffing requirements, and textbook availability.

Schedule changes may be made only on Tuesday and Thursday from June 2, 2011 until July 28, 2011. A counselor or administrator will be available from 8:00 AM until 11:00 AM and from 1:30 PM until 3:00 PM to assist in schedule changes.

Schedule changes after the opening of school will only be made for the following reasons:

- The school has made a scheduling error.
- A class is needed in order to meet graduation requirements.
- A prerequisite has not been successfully met.
- The student completed the course during credit recovery or summer school.
- The student failed the course in the previous semester.
- The change is required based upon the student's IEP.

Schedule changes will not be made based upon a preference for a particular teacher or to be moved into a class with friends.

Repeating a Failed Course

When a student repeats a subject that was previously failed, the grade earned upon repeating the class will become a part of the student's permanent record, as well as the original "F". Both grades will be factored into the student's GPA.

Credit Recovery

Students who fail a core academic course with a grade of 50 or above, and have not lost credit due to attendance, may enroll in credit recovery. Credit recovery is a computer based opportunity to regain lost credit. The cost is \$50 per course and the maximum grade that a student may earn is 70.

Policies & Procedures

TSSAA Athletic Eligibility

- A student must earn five credits the preceding school year if less than 24 units are required for graduation or six credits the preceding school year if 24 or more credits are required for graduation. All credits must be earned by the first day of the beginning of the school year.
- A student must be enrolled before the 20th school day of the semester, in regular attendance, and carrying at least five full courses during the present semester.
- A student is permitted eight semesters of eligibility beginning with the ninth grade.
- A student shall be ineligible in high school if he or she becomes 19 years of age on or before August 1st or in junior high if he or she becomes 16 years of age on or before August 1st.
- Athletes must live at home with their parents/legal guardians.
- In order for a transfer student with an athletic record to be eligible at another school there must be a bona fide change of residence by the athlete's parents.
- All transfer students must be approved by the Executive Director of TSSAA before participating in any game.
- A student who engages in three or more days of practice—including spring practice—with a high school in which he or she is enrolled shall be ineligible in that sport for 12 months if the student enrolls in another school without a corresponding change in the residence of his or her parents.
- A student whose name is listed on the school eligibility report cannot participate in an independent game or meet until the season has closed in that particular sport. (This does not include golf or tennis.)
- A registered athlete cannot accept any money for athletic skills in any TSSAA sponsored sport.
- An athlete may accept a medal, trophy, high school letter, sweater, jacket, shirt, blazer or blanket for athletic participation but nothing else of commercial value, and these awards must carry the school's letter or other appropriate award emblem.
- All expenses to an athletic camp, where specified instruction is offered, must be paid by the athlete or his parents.
- When an athlete is charged tuition to attend a school, it must be paid by the parent or bona fide guardian or other family member.
- Any student repeating the 7th grade after having passed the 7th grade or repeating the 8th grade after passing the 8th grade shall not be eligible to participate in athletics during their 9th grade year.

- A student may not participate in an all-star game unless it is sanctioned by the TSSAA and unless he/she has completed high school eligibility in that sport.

NCAA Clearinghouse

In order to participate in college athletics and receive athletically-based financial aid, students must register with the NCAA Initial-Eligibility Clearinghouse and meet academic and amateurism eligibility standards. Students may register online at <https://www.ncaaclearinghouse.net>. Upon registration, students will need to fill out the Student Release Forms online and return them to their guidance counselor.

The NCAA has adopted new legislation that will require prospects who intend to enroll at NCAA Division I and Division II institutions to supply ACT or SAT scores to the 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.** All prospective student-athletes intending to enroll in a NCAA Division I or Division II institution for the first time on or after August 1, 2007 must complete the NCAA Amateurism Certification questionnaire.

Course Fees

(All fees are approved by the Hamblen County Board of Education in the spring of each year and are subject to change.)

Accounting.....cost of workbook	Floral Design.....\$5
Activity/ID Card.....\$1	General Parking.....\$15
AP Courses.....\$10 & workbook	Locker Rental.....\$5
Art.....\$10	Marketing.....\$2
Chemistry.....\$10 & workbook	Math.....cost of workbook
Computer/Business..... \$5	Project Lead The Way.....\$10
Cosmetology.....\$15	Science.....\$10
Drafting.....\$5	Theatre/Forensics.....\$5
Driver Education.....\$25	Wellness.....\$5
English.....cost of workbook	Weight Training.....\$5
Family & Consumer Science...\$10	

Policies & Procedures

**Hamblen County Department of Education
2011-2012 Calendar**

TPD = Teacher Professional Development

August 4.....	Classes Begin (11:15 AM Dismissal)
August 8.....	First Full Day of School
September 5.....	Labor Day—No School
October 10 & 11.....	Fall Break
November 23-25.....	Thanksgiving Holidays
December 15 & 16.....	1st Semester Final Exams
December 16.....	11:15 AM Dismissal
December 19-30.....	Winter Break
January 2.....	Semester Break
January 3.....	Return to School
January 16.....	Martin Luther King Day
February 17.....	TPD—No School for Students
February 20.....	Presidents' Day Holiday
March 26-30.....	Spring Break
April 6.....	Spring Holiday
May 15 & 16	2nd Semester Final Exams
May 18.....	Grade Card Day & Graduation

**SENIOR
GRADUATION REQUIREMENTS
2011-2012**

The following Graduation Requirements apply only to the graduating Class of 2012. All other students must follow the graduation guidelines of the Tennessee Diploma Project adopted for the graduating Class of 2013 and all subsequent graduating classes.

Graduation Requirements

A student must earn a minimum of 28 credits in the 9th through 12th grades, within four years and one summer, in the following areas in order to graduate with a Morristown-Hamblen High School East diploma. In addition to these requirements, the student must pass the Algebra I Gateway, English 10 Gateway, and Biology I Gateway Exams in order to graduate with a regular high school diploma.

University Path	# of Credits
English..... (Must include English I, II, III, & IV)	4
Mathematics..... (Must include Algebra I, Algebra II & Geometry)	3
Science..... (Must include Biology I and Chemistry I)	3
Social Studies..... (Must include World Geography, US History, & US Government/ Economics)	3
Lifetime Wellness.....	1
Foreign Language.....	2
Visual/Performing Arts.....	1
Total Required Courses.....	17
Total Elective Courses.....	11
Total Credits to Graduate.....	28

Technical Path	# of Credits
English..... (Must include English I, II, III, & IV)	4
Mathematics..... (May include Foundations II, Algebra I, & Geometry)	3
Science..... (May include Environmental Science & Biology I)	3
Social Studies..... (Must include World Geography, US History, & US Government/ Economics)	3
Lifetime Wellness.....	1
Technical Cluster.....	4
Total Required Courses.....	18
Total Elective Courses.....	10
Total Credits to Graduate.....	28

RECOMMENDED CORE COURSE SEQUENCES

ENGLISH

	Level I	Level II	Level III	Level IV
9th Grade	English I A & B	English I	English I (H)	English I (H)
10th Grade	English II	English II	English II (H)	English II (H)
11th Grade	English III	English III	English III (H)	AP English Language & Composition
12th Grade	English IV	English IV	English IV (H)	AP English Literature & Composition

MATHEMATICS

	Level I	Level II	Level III	Level IV
9th Grade	Algebra I A (Year Long)	Algebra I A and Algebra I B	Algebra I (H) and Geometry (H)	Geometry (H) and Algebra II (H)
10th Grade	Algebra I B and Algebra II A	Geometry and Algebra II	Algebra II (H) and Adv. Algebra/Trig. (H)	Adv. Algebra/Trig. (H) and PreCalculus (H)
11th Grade	Algebra II B and Geometry	Adv. Algebra/Trig. (H)	PreCalculus (H)	AP Calculus I (AB)
12th Grade	Capstone or Bridge Math	PreCalculus (H)	AP Calculus I (AB)	AP Calculus II (BC)

SCIENCE

	Level I	Level II	Level III	Level IV
9th Grade	Environmental Science	Environmental Science	Biology I (H)	Biology I (H)
10th Grade	Biology I	Biology I	Physical Science (H)	Chemistry I (H)
11th Grade	Physical Science and Chemistry I	Physical Science and Chemistry I	Chemistry I (H)	Chemistry II (H) and AP Chemistry
12th Grade			Biology II (H) and AP Biology or AP Environmental Science	Physics

SOCIAL STUDIES

	Level I	Level II	Level III	Level IV
9th Grade	World Geography	World Geography	World History (H)	AP World History
10th Grade		World History or Psychology	Psychology or AP European History	AP Psychology or AP European History
11th Grade	US History	US History	US History (H)	AP U.S. History
12th Grade	US Government/Economics	US Government/Economics	US Government/Economics (H)	AP Government US/ AP Macroeconomics/ AP Microeconomics

These course sequences are recommended but may vary depending on each individual student.

TENNESSEE DIPLOMA PROJECT
Programs of Study—Elective Focus Options

HUMANITIES	MATH AND SCIENCE	STEM (Science, Technology, Engineering & Math)
<p>Freshman Skills for Success SRA Reading Study Skills Creative Writing Journalism (Newspaper or Yearbook) Desktop Publishing AP English Language & Composition AP English Literature & Composition Ancient History Contemporary Issues World History (Reg. or Honors) Psychology Sociology AP Psychology AP European History AP World History AP Government US AP Macroeconomics AP Microeconomics American Business Legal Systems Sociology French I, II, III, and/or AP French German I, II, III, and/or AP German Latin I, II, III, and/or AP Latin Spanish I, II, III, and/or AP Spanish Band Chorus Music Appreciation (Regular and AP) Music Theory Art History (Regular and AP) Youth Leadership Marketing and Management I Principles Work Based Learning/Coop. Method Family and Consumer Sciences Housing Interior Design Dual Enrollment Courses</p>	<p>Math Advanced Algebra/Trigonometry (H) PreCalculus (H) AP Calculus I and/or II AP Statistics</p> <p>Science Physical Science Environmental Science Earth and Space Science Ecology Advanced Biology II AP Biology Advanced Chemistry II AP Chemistry AP Environmental Science Bioenergy Research Anatomy & Physiology Dual Enrollment Courses</p> <p style="text-align: center;">SOCIAL SCIENCE</p> <p>Ancient History Contemporary issues World History (Regular or Advanced) Psychology Sociology AP Psychology AP European History AP World History AP US Government AP Macroeconomics AP Microeconomics American Business Legal Systems Dual Enrollment Courses</p>	<p>Science Physical Science Environmental Science Earth and Space Science Ecology Biology II (H) AP Biology Chemistry II (H) AP Chemistry AP Environmental Science Bioenergy Research Anatomy & Physiology</p> <p>Technology Computer Applications Web Page Design—eCommerce Interactive Multimedia Design Integrated Input Technologies Desktop Publishing Database Design Management JAVA</p> <p>Engineering Project Lead The Way (PLTW) Introduction to Engineering Design Digital Electronics Principles of Engineering Computer Integrated Manufacturing Civil Engineering & Architecture Aerospace Engineering Engineering Design & Development Trade & Industry—Coop. Method Advanced Computer Aided Drafting</p> <p>Math Advanced Algebra/Trigonometry (H) PreCalculus (H) AP Calculus I and/or II AP Statistics</p> <p>Dual Enrollment Courses</p>

TENNESSEE DIPLOMA PROJECT
Programs of Study—Elective Focus Options

ADVANCED PLACEMENT	COMMUNICATIONS	HEALTH PROFESSIONS
Art History Biology Calculus I and/or II Chemistry English Language and Composition English Literature and Composition Environmental Science European History French German Government US Human Geography Latin Macroeconomics Microeconomics Music Theory Psychology Spanish Statistics US History World History	Broadcasting Computer Applications Creative Writing Desktop Publishing Drama I, II eBusiness Communications Forensics Integrated Input Technologies Interactive Multimedia Design Journalism (Newspaper or Yearbook) Marketing and Management Principles Theatre Arts I, II, III Web Page Design—eCommerce Work Based Learning/Coop. Method Youth Leadership Dual Enrollment Courses	Anatomy and Physiology AP Biology Biology II (H) Biomedical Sciences Principles of Biomedical Sciences Human Body Systems Medical Interventions Science Research Emergency Medical Services Forensic Science Health Informatics Health Science Education Medical Therapeutics Nursing Education Nutrition and Foods PE II/Weightlifting (Basketball) PE II/Weightlifting (Football) Pharmacy Tech (H) Rehabilitative Therapies Youth Leadership Dual Enrollment Courses
BUSINESS, MANAGEMENT, AND INFORMATION	FINE ARTS	INTERNATIONAL STUDIES
Accounting I and/or II American Business Legal Systems Business Principles Computer Applications Desktop Publishing eBusiness Communications Entrepreneurship Forensic Science Hospitality Management Housing Integrated Input Technologies Interactive Multimedia Design Interior Design Journalism (Newspaper or Yearbook) Keyboarding Life Connections Marketing and Management I Principles Personal Finance Principles of Agricultural Sciences Sports and Entertainment Marketing Travel and Tourism Web Page Design—eCommerce Work Based Learning—Coop. Method Youth Leadership Dual Enrollment Courses	Theatre Arts I, II, III Forensics Drama I, II Band (Marching and/or Concert) Chorus (General, Concert, or Advanced) Music Appreciation (Regular and/or AP) Music Theory Introduction to Music Art I, II, III Art History (Regular and/or AP) Dual Enrollment Courses	English Language Learners (ELL) Contemporary Issues Sociology World Geography (Not if required) Youth Leadership Web Page Design—eCommerce Marketing and Management I Principles Travel and Tourism World Languages French I, II, III, and/or AP French German I, II, III, and/or AP German Latin I, II, III and/or AP Latin Spanish I, II, III and/or AP Spanish Dual Enrollment Courses
	PRE-EDUCATION	PRE-LAW
	Child and Lifespan Development Computer Applications Emergency Medical Services Family and Consumer Sciences Family and Parenting Forensic Science Interactive Multimedia Design Life Connections Nursing Education Peer Tutoring Psychology Study Skills Teaching as a Profession Work Based Learning—Coop. Method Youth Leadership Dual Enrollment Courses	Accounting I, II American Business Legal Systems Criminal Justice I, II, III Forensic Science Psychology Sociology Work Based Learning—Coop. Method Youth Leadership Dual Enrollment Courses

**CAREER AND TECHNICAL EDUCATION
CAREER CLUSTERS
Programs of Study and Course Sequences**

AGRICULTURE EDUCATION	BUSINESS TECHNOLOGY EDUCATION	FAMILY & CONSUMER SCIENCES
AGRICULTURE, FOOD AND NATURAL RESOURCES	BUSINESS, MANAGEMENT, AND ADMINISTRATION	ARCHITECTURE & CONSTRUCTION
<p>Plant Systems—Horticulture Production Principles of Horticultural Sciences Floral Design Greenhouse Management Plant Biotechnology</p> <p>Plant Systems—Landscaping & Turf Science Principles of Horticultural Sciences Landscaping and Turf Management Greenhouse Management Plant Biotechnology</p> <p>Power Structures and Technical Systems Principles of Agricultural Sciences Agriculture Mechanics and Maintenance Agricultural Power and Equipment Agricultural Engineering</p>	<p>Business Financial Management & Accounting Computer Applications Accounting I Accounting II Business Management</p> <p>Human Resources Computer Applications eBusiness Communication Interactive Multimedia Presentation Integrated Input Technology</p> <p style="text-align: center;">INFORMATION TECHNOLOGY</p> <p>Interactive Multimedia Computer Applications Interactive Multimedia Presentation Desktop Publishing Integrated Input Technology</p>	<p>Interior Design Family & Consumer Sciences Interior Design Housing Life Connections</p> <p style="text-align: center;">EDUCATION AND TRAINING</p> <p>Teaching Training Services Family & Consumer Sciences Child and Lifespan Development Life Connections Teaching as a Profession</p> <p style="text-align: center;">HUMAN SERVICES</p> <p>Counseling & Mental Health Services Family & Consumer Sciences Child and Lifespan Development Family and Parenting Life Connections</p> <p>Family & Community Services Family & Consumer Sciences Child and Lifespan Development Nutrition and Foods Life Connections</p> <p>(Additional Courses) Personal Finance (Required for Graduation)</p>

**CAREER AND TECHNICAL EDUCATION
CAREER CLUSTERS
Programs of Study and Course Sequences
(Continued)**

HEALTH SCIENCE EDUCATION	MARKETING EDUCATION	TRADE & INDUSTRY EDUCATION
<p style="text-align: center;">HEALTH SCIENCE</p> <p>Therapeutic Emergency Services Health Science Education Medical Therapeutics Anatomy & Physiology Emergency Medical Services</p> <p>Therapeutic Services Health Science Education Medical Therapeutics Anatomy & Physiology Nursing Education</p> <p>(Additional Courses) Medical Therapeutics—Pharmacy Tech (H) Anatomy & Physiology—Medical Terminology (HS)</p>	<p style="text-align: center;">HOSPITALITY AND TOURISM</p> <p>Hospitality Management & Lodging Services Marketing & Management I—Principles Travel and Tourism Hospitality Management</p> <p>Recreation, Attractions, Sports & Entertainment Marketing & Management I—Principles Travel and Tourism Sports and Entertainment</p> <p>(Additional Courses) Personal Finance (Required for Graduation)</p>	<p style="text-align: center;">ARCHITECTURE & CONSTRUCTION</p> <p>Carpentry Career Management Success Carpentry: Construction Core Carpentry I Carpentry II</p> <p style="text-align: center;">GOVERNMENT & PUBLIC ADMINISTRATION OR LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY</p> <p>National Security or Law Enforcement Services Career Management Success Criminal Justice I Criminal Justice II Criminal Justice III</p> <p style="text-align: center;">HUMAN SERVICES</p> <p>Personal Care Services Career Management Success—Cosmetology Principles of Cosmetology Design Principles of Cosmetology Chemistry of Cosmetology</p> <p style="text-align: center;">MANUFACTURING</p> <p>Electromechanical Career Management Success Introduction to Electromechanical Electromechanical I Electromechanical II</p> <p>Engineering Introduction to Engineering Design (H) Principles of Engineering (H) Digital Electronics (H) or Computer Integrated Manufacturing (H) Engineering Design and Development (H)</p> <p style="text-align: center;">TRANSPORTATION</p> <p>Automotive Technology Automotive: Transportation Core Automotive: Brake Systems Automotive: Suspension and Steering Automotive: Electrical/Electronics Automotive: Engine Performance</p>

MORRISTOWN-HAMBLE HIGH SCHOOL EAST—SIX YEAR CURRICULUM PLAN

Middle School
 East Ridge
 Lincoln Heights
 Meadowview
 Other _____

Student Name _____
 Date of Completion _____
 Student Signature _____
 Parent Signature _____
 Counselor/School Representative Signature _____

Expected Year of Graduation: _____

CURRICULUM	9th GRADE	10th GRADE	11th GRADE	12th GRADE
English (4 credits required)	English I B English I English I (H) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	English II English II (H) <input type="checkbox"/> <input type="checkbox"/>	English III English III (H) AP English Language & Composition <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	English IV English IV (H) AP English Literature & Composition <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Mathematics (4 years required) Must include Algebra I, Geometry, Algebra II, and a higher level math.	Algebra I B Algebra I (H) Geometry (H) Algebra II (H) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Algebra I B Geometry (Regular or Honors) Algebra II (Regular or Honors) Advanced Algebra/Trigonometry (H) PreCalculus (H) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Geometry (Regular or Honors) Algebra II (Regular or Honors) Advanced Algebra/Trigonometry (H) PreCalculus (H) AP Calculus I (AB) AP Calculus I (BC) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Bridge Math Senior Finite Math Advanced Algebra/Trigonometry (H) PreCalculus (H) AP Calculus I (AB) AP Calculus II (BC) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Science (3 credits required) Must include Biology I, Chemistry or Physics, and 1 additional lab science	Environmental Science Biology I Biology I (H) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Environmental Science Biology I (Regular or Honors) Physical Science (Regular or Honors) Chemistry I (Regular or Honors) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Biology I or II (Regular or Honors) AP Biology Chemistry I or II (Regular or Honors) AP Chemistry AP Environmental Science Bioenergy Research <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Chemistry I AP Biology AP Chemistry AP Environmental Science Physics Bioenergy Research <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Social Studies (3 credits required)	World Geography World History (H) AP Human Geography <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	World History Psychology Sociology AP European History AP Psychology AP World History <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	US History (Regular or Honors) AP US History Psychology Sociology AP Psychology AP World History <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	US Government/Econ. (Reg. or Honors) AP Government US/Macro/Microeconomics AP Psychology AP World History AP European History <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
World Languages (2 credits of the same language) (May be replaced by an elective focus)	N/A	French I German I and II Spanish I <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	French I or II German I and II Spanish I or II <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	French II German I and II Spanish II <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Fine Arts (1 credit required) (May be replaced by an elective focus)	Art I Band—Marching and/or Concert Chorus: General Drama I <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Art I or Art II Band—Marching and/or Concert Chorus: Concert or Advanced Drama I or Drama II Forensics-Drama <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Art I or Art II or Art III Band—Marching and/or Concert Chorus: Concert or Advanced Drama I or II Forensics-Drama <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Art I or Art II or Art III Band—Marching and/or Concert Chorus: Concert or Advanced Drama I or Drama II Forensics-Drama <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Electives	Lifetime Wellness SRA Reading English I A Algebra I A Computer Applications <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Lifetime Wellness PE III/Weightlifting Algebra I A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Physical Education (1/2 Credit) <input type="checkbox"/>	Personal Finance (1/2 Credit) <input type="checkbox"/>
Career Cluster Focus (3 Credits Required from Same Path)	_____	_____	_____	_____

Years 13 & 14 Institution:

Projected Program of Study: _____

4 year: _____
 Technology Center: _____
 Other: _____

OR

Full-time Employment: _____

2 year: _____
 Other: _____
 Other: _____

CORE ACADEMIC COURSES

ENGLISH*

*Placement in English classes will be determined by the English Department. A complete description of courses may be found on pages 24-25.
(Course numbers that begin with a 6, 7, 8, or 9 are designated specifically for freshmen.)

MATHEMATICS*

*Placement in mathematics classes will be determined by the Mathematics Department. A complete description of courses may be found on page 26.
(Course numbers that begin with a 6, 7, 8, or 9 are designated specifically for freshmen.)

SCIENCE*

*Placement in mathematics classes will be determined by the Science Department. A complete description of courses may be found on page 28.
(Course numbers that begin with a 6, 7, 8, or 9 are designated specifically for freshmen.)

First Semester

Second Semester

Either Semester

SOCIAL STUDIES

	903450	AP Human Geography (9th)	903410	World Geography (9th)
			923401	World History (H) (9th)

ELECTIVES

FINE ARTS

3530	Band I: Marching Band	13530	Band II: Concert Band	903501	Art I (9th)
				903521	Drama I (9th)
				903531	Chorus: General (9th)

HEALTH EDUCATION

	913303	Lifetime Wellness (FB Only)	903303	Lifetime Wellness (9th)
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ELECTIVES—CAREER & TECHNICAL EDUCATION (CTE)—Either Semester

905701 Career Management Success (Required for many Career Clusters)

AGRICULTURE EDUCATION—Agriculture, Food, and Natural Resources

905184 Principles of Horticultural Sciences (9th)
905154 Principles of Agriculture Sciences (9th)

BUSINESS TECHNOLOGY EDUCATION—Business, Management & Administration or Information Technology

903718 Computer Applications (9th) (Required for all students)

FAMILY & CONSUMER SCIENCES—Architecture & Construction; Education & Training; or Human Services

905603 Family & Consumer Science (9th)

HEALTH SCIENCE EDUCATION—Health Science

905504 Health Science Education (9th)

TRADE & INDUSTRY EDUCATION—Manufacturing

925793 Introduction of Engineering Design (H) (PLTW) (9th)

**CAREER AND TECHNICAL EDUCATION—
CAREER CLUSTERS**

AGRICULTURE EDUCATION

AGRICULTURE, FOOD, and NATURAL RESOURCES

Plant Systems—Horticulture Production

- 5184 Principles of Horticultural Sciences
- 5164 Floral Design
- 5167 Greenhouse Management

Plant Systems—Landscaping and Turf Science

- 5184 Principles of Horticultural Sciences
- 5163 Landscaping and Turf Management
- 5167 Greenhouse Management

Power Structures and Technical Systems

- 5154 Principles of Agriculture Sciences
- 5151 Agricultural Mechanics & Maintenance

(Additional Courses)

- 5155 Advanced Principles of Agricultural Sciences

BUSINESS TECHNOLOGY EDUCATION

BUSINESS, MANAGEMENT, and ADMINISTRATION

Business Financial Management and Accounting

- 3718 Computer Applications
- 3779 Accounting I

Human Resources

- 3718 Computer Applications
- 3704 eBusiness Communications

INFORMATION TECHNOLOGY

Interactive Multimedia

- 3718 Computer Applications
- 3746 Interactive Multimedia Presentation

(Additional Courses)

- 3735 Database Design Management
- 3761 JAVA Programming

FAMILY & CONSUMER SCIENCES

ARCHITECTURE & CONSTRUCTION

Interior Design

- 5603 Family & Consumer Science
- 5626 Interior Design

EDUCATION AND TRAINING

Teaching Training Services

- 5603 Family & Consumer Science
- 5625 Child and Lifespan Development

HUMAN SERVICES

Counseling and Mental Health Services

- 5603 Family & Consumer Science
- 5625 Child and Lifespan Development
- 5606 Family and Parenting

Family and Community Services

- 5603 Family & Consumer Science
- 5625 Child and Lifespan Development
- 5609 Nutrition and Foods

HEALTH SCIENCE EDUCATION

HEALTH SCIENCE

Therapeutic Emergency Services

- 5504 Health Science Education
- 5506 Medical Therapeutics

Therapeutic Services

- 5504 Health Science Education
- 5506 Medical Therapeutics

(Additional Courses)

- 5503 Rehabilitative Therapies
- 5505 Health Informatics

MARKETING EDUCATION

HOSPITALITY and TOURISM

Hospitality Management and Lodging Services

- 5030 Marketing and Management I—Principles
- 5003 Travel and Tourism Operations
- 5026 Hospitality Management

Recreation, Attractions, Sports and Entertainment

- 5030 Marketing and Management I—Principles
- 5003 Travel and Tourism Operations

TRADE AND INDUSTRY EDUCATION

ARCHITECTURE & CONSTRUCTION

Carpentry

- 5701 Career Management Success
- 5730 Carpentry: Construction Core
- 5731 Carpentry I

**GOVERNMENT & PUBLIC ADMINISTRATION or
LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY**

National Security or Law Enforcement Services

- 5701 Career Management Success
- 5330 Criminal Justice I

HUMAN SERVICES

Personal Care Services

- 15701 Career Management Success—Cosmetology (1 Credit) (IA)*
 - 5338 Principles of Cosmetology I (1 Credit) (IA)*
- *Must sign up for both

MANUFACTURING

Engineering—Project Lead The Way

- 205793 Introduction to Engineering Design (H) (PLTW)
- 205792 Digital Electronics (H) (PLTW)
- 205791 Principles of Engineering (H) (PLTW)

Electromechanical

- 5790 Introduction to Electromechanical
- 105790 Electromechanical I

TRANSPORTATION, DISTRIBUTION, and LOGISTICS

Automotive Technology

- 5702 Automotive: Transportation Core
- 5712 Automotive: Brake Systems
- 5710 Automotive: Suspension and Steering
- 5711 Automotive: Engine Performance

ELECTIVE COURSES (Continued)**First Semester****Second Semester****Either Semester****WORLD LANGUAGE**

		3041	French I
3042	French II		
3043	French III (H) (West High)	313045	AP French Language (West High)

3051	German I	3052	German II
3053	German III (H)	313055	AP German Language (West High)

		3021	Spanish I
3022	Spanish II		
3023	Spanish III (H)(West High)	313025	AP Spanish Language (West High)

**CAREER AND TECHNICAL EDUCATION—
CAREER CLUSTERS****AGRICULTURE EDUCATION****AGRICULTURE, FOOD, and NATURAL RESOURCES**Plant Systems—Horticulture Production

5184	Principles of Horticultural Sciences
5164	Floral Design
5167	Greenhouse Management

Plant Systems—Landscaping and Turf Science

5184	Principles of Horticultural Sciences
5163	Landscaping and Turf Management
5167	Greenhouse Management

Power Structures and Technical Systems

5154	Principles of Agriculture Sciences
5151	Agricultural Mechanics & Maintenance
5152	Agricultural Power and Equipment

(Additional Courses)

5155	Advanced Principles of Agricultural Sciences
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BUSINESS TECHNOLOGY EDUCATION**BUSINESS, MANAGEMENT, and ADMINISTRATION**Business Financial Management and Accounting

3718	Computer Applications
3779	Accounting I
3780	Accounting II

Human Resources

3718	Computer Applications
3704	eBusiness Communications
3746	Interactive Multimedia Presentation

INFORMATION TECHNOLOGYInteractive Multimedia

3718	Computer Applications
3746	Interactive Multimedia Presentation
3741	Desktop Publishing

(Additional Courses)

3735	Database Design Management
3761	JAVA Programming

FAMILY & CONSUMER SCIENCES**ARCHITECTURE & CONSTRUCTION**Interior Design

5603	Family & Consumer Science
5626	Interior Design
5614	Housing

EDUCATION AND TRAININGTeaching Training Services

5603	Family and Consumer Science
5610	Child and Lifespan Development
5622	Teaching as a Profession

HUMAN SERVICESCounseling and Mental Health Services

5603	Family and Consumer Sciences
5610	Child and Lifespan Development
5606	Family and Parenting

Family and Community Services

5603	Family and Consumer Sciences
5610	Child and Lifespan Development
5609	Nutrition and Foods

(Additional Courses)

5613	Personal Finance (Required for Graduation)
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HEALTH SCIENCE EDUCATION**HEALTH SCIENCE**Therapeutic Emergency Services

5504	Health Science Education
5506	Medical Therapeutics
5512	Anatomy and Physiology

Therapeutic Services

5504	Health Science Education
5506	Medical Therapeutics
5512	Anatomy and Physiology

(Additional Courses)

5503	Rehabilitative Therapies
5505	Health Informatics
5514	Forensic Science

**CAREER AND TECHNICAL EDUCATION—
CAREER CLUSTERS (Continued)**

MARKETING EDUCATION

HOSPITALITY and TOURISM

Hospitality Management and Lodging Services

- 5030 Marketing and Management I-Principles
- 5003 Travel and Tourism Operations
- 5026 Hospitality Management

Recreation, Attractions, Sports and Entertainment

- 5030 Marketing and Management Principles I
- 5003 Travel and Tourism Operations
- 5023 Sports and Entertainment Marketing

(Additional Courses)

- 5038 Personal Finance (Required for Graduation)

TRADE AND INDUSTRY EDUCATION

ARCHITECTURE & CONSTRUCTION

Carpentry

- 5701 Career Management Success
- 5730 Carpentry: Construction Core
- 5731 Carpentry I
- 5732 Carpentry II

**GOVERNMENT & PUBLIC ADMINISTRATION or
LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY**

National Security or Law Enforcement Services

- 5701 Career Management Success
- 5330 Criminal Justice I
- 5331 Criminal Justice II

HUMAN SERVICES

Personal Care Services

- 15701 Career Management Success—Cosmetology (1 Credit) (IA)*
 - 5338 Principles of Cosmetology I (1 Credit) (IA)*
- *Must sign up for both 15701 and 5338
- 5339 Design Principles of Cosmetology (2 Credits) (IA)
 - 5340 Chemistry of Cosmetology (2 Credits) (IA)

MANUFACTURING

Electromechanical

- 5790 Introduction to Electromechanical
- 105790 Electromechanical I
- 115790 Electromechanical II

Engineering—Project Lead The Way

- 205793 Introduction to Engineering Design (H) (PLTW)
- 205792 Digital Electronics (H) (PLTW)
- 205791 Principles of Engineering (H) (PLTW)

- 205794 Computer Integrated Manufacturing (H) (PLTW)

TRANSPORTATION, DISTRIBUTION, and LOGISTICS

Automotive Technology

- 5702 Automotive: Transportation Core
- 5712 Automotive: Brake Systems
- 5710 Automotive: Suspension and Steering
- 5711 Automotive: Engine Systems

MORRISTOWN-HAMBLÉN HIGH SCHOOL EAST
2011-2012 12th Grade Registration Form

Legal Name: _____	_____	_____
(Last)	(First)	(Middle)
Street Address: _____	City: _____	Zip Code: _____
Home Phone: _____	Parent Cell Phone: _____	Emergency Phone: _____
Mother: _____	_____	Work Phone: _____
(Last)	(First)	
Father: _____	_____	Work Phone: _____
(Last)	(First)	
E-Mail: _____		Homeroom Teacher _____
Date of Birth: _____	Ethnic Code: _____ Sex: _____	Social Security #: _____

IA = Instructor Approval Required
(H) = Honors

CORE ACADEMIC COURSES

<u>First Semester</u>	<u>Second Semester</u>	<u>Either Semester</u>
<u>ENGLISH</u>		
9480 Gateway English-12 (IEP)	19480 Gateway English-12 (IEP)	30010 English I (Repeat)
3075 English Language Learners	13075 English Language Learners	30020 English II
	313014 AP English Literature & Composition	30030 English III
	323014 AP Eng. Lit. & Comp./WSCC Comp II	30050 English IV
		230051 English IV (H)
<u>MATHEMATICS</u>		
9481 Gateway Algebra (IEP)	19481 Gateway Algebra (IEP)	
31023 Algebra I A (1 st)	131024 Algebra I B (2 nd)	
31024 Algebra I B (1 st)	131080 Geometry (2 nd)	
31080 Geometry (1 st)	131030 Algebra II (2 nd)	
31030 Algebra II (1 st)	213124 Advanced Algebra/Trigonometry (H)	
31033 Algebra II A (1 st)	31034 Algebra II B (2 nd)	
31030 Algebra II (1 st)	123124 Advanced Algebra/Trigonometry-ACT (H)	
103124 Advanced Algebra/Trig-ACT (H)		
231081 Geometry (H)	131031 Algebra II (H)	
31031 Algebra II (H)	213124 Advanced Algebra/Trigonometry (H)	
31031 Algebra II (H)	213126 PreCalculus (H)	
203124 Advanced Algebra/Trigonometry (H)	213126 PreCalculus (H)	
203126 PreCalculus (H)		
303127 AP Calculus I (AB) (IA)	313127 AP Calculus I (AB) (IA)	
303128 AP Calculus II (BC) (IA)	313128 AP Calculus II (BC) (IA)	
<u>SCIENCE</u>		
9482 Gateway Biology (IEP)	19482 Gateway Biology (IEP)	3260 Environmental
203216 Biology II (H)	313217 AP Biology	32100 Biology I
203224 Chemistry II (H)	313225 AP Chemistry	3202 Physical Science
	313236 AP Environmental Science	232021 Physical Science (H)
203295 Bioenergy Research (H)	213295 Bioenergy Research (H)	32210 Chemistry I
		232211 Chemistry I (H)
		32311 Physics (H)
<u>SOCIAL STUDIES</u>		
303441 AP European History	313441 AP European History	3401 World History
	303450 AP Human Geography	3433 Psychology
	313447 AP Psychology	3432 Sociology
303440 AP US History	313440 AP US History	34050 US History
303445 AP Government & Politics US/ AP Macroeconomics/ AP Microeconomics	313445 AP Government & Politics US/ AP Macroeconomics/ AP Microeconomics	234051 US History (H)
		3407 US Government/Economics
		2034071 US Government/Economics (H)

ELECTIVE COURSES

First Semester

LANGUAGE ARTS

203741 Journalism Yearbook (All Year)
13741 Journalism Newspaper (All Year)

213741
23741

Second Semester

Journalism Yearbook (All Year)
Journalism Newspaper (All Year)

Either Semester

(Application available from Mr. Glandon-Room 223)
(Application available from Mr. Moodie-Room 209)

FINE ARTS

3505 Introduction to Music
3530 Band I: Marching Band
3531 Chorus: Concert
203531 Chorus: Advanced
3523 Forensics-Drama

3514 Music Theory & Harmony
13530 Band II: Concert Band
13531 Chorus: Concert
213531 Chorus: Advanced
13523 Forensics-Drama
403081 Broadcasting

3501 Art I
3502 Art II
3503 Art III
3521 Drama I
3522 Drama II

HEALTH EDUCATION

33302 PE II/Weightlifting (BB)
13302 PE II/Weightlifting (FB)

23302 PE II/Weightlifting (FB)

3303 Lifetime Wellness
3302 PE II/Weightlifting
3321 Driver's Education

WORLD LANGUAGE

3042 French II
3043 French III (H) (West High)

3041 French I
313045 AP French Language (West High)

3051 German I
3053 German III (H)

3052 German II
313055 AP German Language (West High)

3022 Spanish II
3023 Spanish III (H) (West High)

3021 Spanish I
313025 AP Spanish Language (West High)

CAREER AND TECHNICAL EDUCATION— CAREER CLUSTERS

AGRICULTURE EDUCATION

AGRICULTURE, FOOD, and NATURAL RESOURCES

Plant Systems—Horticulture Production

5184 Principles of Horticultural Sciences
5164 Floral Design
5167 Greenhouse Management
5175 Plant Biotechnology

Plant Systems—Landscaping and Turf Science

5184 Principles of Horticultural Sciences
5163 Landscaping and Turf Management
5167 Greenhouse Management
5175 Plant Biotechnology

Power Structures and Technical Systems

5154 Principles of Agriculture Sciences
5151 Agricultural Mechanics & Maintenance
5152 Agricultural Power and Equipment
5178 Agricultural Engineering

(Additional Courses)

5155 Advanced Principles of Agricultural Sciences
5108 & 15108 Cooperative Methodology—Agriculture (IA)

BUSINESS TECHNOLOGY EDUCATION

BUSINESS, MANAGEMENT, and ADMINISTRATION

Business Financial Management and Accounting

3718 Computer Applications
3779 Accounting I
3780 Accounting II

3707 Business Management

Human Resources

3718 Computer Applications
3704 eBusiness Communications
3746 Interactive Multimedia Presentation
3730 Integrated Input Technology

INFORMATION TECHNOLOGY

Interactive Multimedia

3718 Computer Applications
3746 Interactive Multimedia Presentation
3741 Desktop Publishing
3730 Integrated Input Technology

(Additional Courses)

3735 Database Design Management
3761 JAVA Programming
3760 Web Page Design—eCommerce

FAMILY & CONSUMER SCIENCES

ARCHITECTURE & CONSTRUCTION

Interior Design

5603 Family & Consumer Science
5626 Interior Design
5614 Housing
5623 Life Connections

EDUCATION AND TRAINING

Teaching Training Services

5603 Family & Consumer Science
5610 Child and Lifespan Development
5622 Teaching as a Profession
5623 Life Connections

**CAREER AND TECHNICAL EDUCATION—
CAREER CLUSTERS (Continued)**

HUMAN SERVICES

Counseling and Mental Health Services

- 5603 Family & Consumer Science
- 5610 Child and Lifespan Development
- 5606 Family and Parenting
- 5623 Life Connections

Family and Community Services

- 5603 Family & Consumer Science
- 5610 Child and Lifespan Development
- 5609 Nutrition and Foods
- 5623 Life Connections

HEALTH SCIENCE EDUCATION

HEALTH SCIENCE

Therapeutic Emergency Services

- 5504 Health Science Education
- 5506 Medical Therapeutics
- 5512 Anatomy and Physiology
- 5510 Emergency Medical Services

Therapeutic Services

- 5504 Health Science Education
- 5506 Medical Therapeutics
- 5512 Anatomy and Physiology
- 5507 Nursing Education

(Additional Courses)

- 5503 Rehabilitative Therapies
- 5505 Health Informatics
- 5514 Forensic Science
- 205506 Medical Therapeutics—Pharmacy Tech (H)
- 15512 Anatomy & Physiology—Medical Terminology (HS)

MARKETING EDUCATION

HOSPITALITY and TOURISM

Hospitality Management and Lodging Services

- 5030 Marketing and Management I-Principles
- 5003 Travel and Tourism Operations
- 5026 Hospitality Management

Recreation, Attractions, Sports and Entertainment

- 5030 Marketing and Management I—Principles
- 5003 Travel and Tourism Operations
- 5023 Sports and Entertainment Marketing

(Additional Courses)

- 5035 Entrepreneurship
- 5098 & 15098 Cooperative Methodology—Marketing (IA)

TRADE AND INDUSTRY EDUCATION

ARCHITECTURE & CONSTRUCTION

Carpentry

- 5701 Career Management Success
- 5730 Carpentry: Construction Core
- 5731 Carpentry I
- 5732 Carpentry II

**GOVERNMENT & PUBLIC ADMINISTRATION or
LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY**

National Security or Law Enforcement Services

- 5701 Career Management Success
- 5330 Criminal Justice I
- 5331 Criminal Justice II
- 5342 Criminal Justice III

HUMAN SERVICES

Personal Care Services

- 15701 Career Management Success—Cosmetology (1 Credit) (IA)*
- 5338 Principles of Cosmetology I (1 Credit) (IA)*
- *Must sign up for both 15701 and 5338
- 5339 Design Principles of Cosmetology (2 Credits) (IA)
- 5340 Chemistry of Cosmetology (2 Credits) (IA)

MANUFACTURING

Electromechanical

- 5790 Introduction to Electromechanical
- 105790 Electromechanical I
- 115790 Electromechanical II

Engineering—Project Lead The Way

- 205793 Introduction to Engineering Design (H) (PLTW)
- 205792 Digital Electronics (H) (PLTW)
- 205791 Principles of Engineering (H) (PLTW)
- 205794 Computer Integrated Manufacturing (H) (PLTW)

- 205795 Civil Engineering & Architecture (H) (PLTW)
- 205796 Aerospace Engineering (H) (PLTW)

- 205798 Engineering Design and Development (H) (PLTW)

(Additional Courses)

- 5789 Advanced Computer Aided Drafting

TRANSPORTATION, DISTRIBUTION, and LOGISTICS

Automotive Technology

- 5702 Automotive: Transportation Core
- 5712 Automotive: Brake Systems
- 5710 Automotive: Suspension and Steering
- 5711 Automotive: Engine Performance

ACADEMIC COURSE DESCRIPTIONS 2011-2012

CORE ACADEMIC COURSES—English

IA = Instructor Approval Required
(H) = Honors

Note: A handout of summer reading for the English I (H), English II (H), English III (H), English IV (H), AP English Language and Composition, and AP English Literature and Composition courses will be distributed to students. Students will be required to purchase folders, notebooks, and report covers in addition to regular classroom supplies for all English courses.

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
3075 & 13075	English Language Learner (All Year)	2 Elective Credits	ELL Teacher Recommendation
963081 & 930010	SRA Reading C2 & English I (2nd)	1 Elective & 1 English Credit	Hamblen County Placement
630013 & 630014	English I A & English I B (S9) (IEP)	1 Elective & 1 English Credit	IEP Team Placement
930013 & 930014	English I A & English I B	1 Elective & 1 English Credit	Hamblen County Placement
830010	English I	1 English Credit	Hamblen County Placement
930011	English I (H)	1 English Credit	Hamblen County Placement
30010	English I (Repeat)	1 English Credit	English I Failure as Freshman
30020	English II	1 English Credit	English I Credit
230021	English II (H)	1 English Credit	English I Credit and IA
30030	English III	1 English Credit	English I & II Credit
230031	English III (H)	1 English Credit	English I & II Credit and IA
313013	AP English Language & Composition	1 English Credit	English II (H) Credit and IA
323013	AP Eng. Lang. & Comp./WSCC Comp I	1 English Credit/ 3 College Credits	English II (H) Credit and IA and a minimum Composite score of 18 on the the PLAN or ACT
9480 & 19480	Gateway English-12 (IEP)	2 Elective Credits	IEP Team Placement
30050	English IV	1 English Credit	English III Credit
230051	English IV (H)	1 English Credit	English III Credit and IA
313014	AP English Literature & Composition	1 English Credit	English III (H) Credit and IA
323014	AP Eng. Lit. & Comp./WSCC Comp II	1 English Credit/ 3 College Credits	English III (H) Credit and IA and WSCC Comp I Credit

3075 & 13075 English Language Learners (ELL)

English Language Learners is a course designed for students whose native language is not English. A language specialist will teach English Language Learners. This course is for elective credit only and is required to be taken both semesters.

963081 & 930010 SRA Reading C2 & English I (2nd)

SRA Reading is the continuation of reading instruction initiated at the middle school level. SRA Reading is a scripted reading program designed to enhance the student's ability to decode and comprehend the written word. Depending upon the level of instruction, students may not take English I until their sophomore year. Students enrolled in an SRA Reading course may also be enrolled in English I (2nd). An End-of-Course (EOC) assessment will be given at the completion of English I (2nd) and the score will count as 25% of the student's

second 9-week grade for the English I (2nd) course. **All students are required to pass English I in order to be eligible for a high school diploma.**

630013 & 630014 English I A & English I B (S9) (IEP)

930013 & 930014 English I A & English I B

English I A & English I B are courses with a strong emphasis on reading, writing, and vocabulary. They designed to reinforce grammar and writing skills in order to master both oral and written communication. Various types of literature will be taught. Activities will prepare the student for the English I End-of-Course Exam. An End-of-Course (EOC) assessment will be given at the completion of English I B and the score will count as 25% of the student's second 9-week grade for the English I B course. **All students are required to pass English I in order to be eligible for a high school diploma.**

830010 English I

English I is designed to review grammar skills and provide remediation in areas of weakness. The student will advance from writing effective sentences to composing effective paragraphs. Skills necessary for the understanding, appreciation, and enjoyment of various types of literature and vocabulary enhancement will be taught. An End-of-Course (EOC) assessment will be given at the completion of English I and the score will count as 25% of the student's second 9-week grade for the English I course. **All students are required to pass English I in order to be eligible for a high school diploma.**

930011 English I (H)

English I (H) is designed to meet the language needs of the advanced/honors freshman student who plans to attend college and remain on an AP track. Emphasis is placed on effective composition and moving from the paragraph to the essay. The various elements of both prose and poetry are taught as a means of furthering the student's comprehension of literature. Textual analysis of various works and vocabulary improvement are emphasized. Students are expected to be motivated self-starters with a strong work ethic. Students will be required to read at least one novel prior to the beginning of the semester. An End-of-Course (EOC) assessment will be given at the completion of English I (H) and the score will count as 25% of the student's second 9-week grade for the English I (H) course. **All students are required to pass English I in order to be eligible for a high school diploma.**

30010 English I (Repeat)

English I is designed to reinforce basic grammar and writing skills in order to master both oral and written communication skills. Activities will prepare the student for the End-of-Course Exam. This course is for those who did not pass English I as a freshman.

30020 English II

English II stresses new vocabulary skills, grammar, sentence structure, composition, speaking, and listening. The student will read world literature selections in the genres of poetry, short story, novel, nonfiction, drama, myths, and legends. Emphasis will be placed on mastering the literary and reading skills that are present in the various types of literature. All English II classes will be taken during the first semester. An End-of-Course (EOC) assessment will be given at the completion of English II and the score will count as 20% of the student's second 9-week grade for the English II course. **All students are required to pass English II in order to be eligible for a high school diploma.**

203221 English II (H)

English II (H) is designed to meet the language needs of the students who plan to follow the collegiate path, as well as continue with Honor's and AP English Courses. This course will entail extensive reading and critical analysis of a variety of genres, including several significant literary works. Projects, both individual and group, as well as essays, will constitute a significant portion of the student's grade, as well as coursework designed to enhance the students' development of vocabulary, application of grammar, and preparation for the ACT. In addition, students will complete a research paper. Prior to the beginning of the semester, students are required to read Ray Bradbury's *Fahrenheit 451*. All English II (H) classes will be taken

during the first semester. An End-of-Course (EOC) assessment will be given at the completion of English II (H) and the score will count as 20% of the student's second 9-week grade for the English II course. **All students are required to pass English II in order to be eligible for a high school diploma.**

30030 English III

English III will span American Literature from the Colonial Period to Modern American Literature. In addition, this course focuses on: a brief grammar review; establishing connections among observations of various works; developing critical and analytical skills; writing and the development of clear, organized and coherent essays; expansive vocabulary growth and development; a variety of sentence structure; logical organization and a strong balance of critical analysis. Vocabulary development is emphasized, and a documented research paper will be required. All English III classes will be taken during the second semester. The 11th Grade Writing Assessment, administered in February, score will be included as part of the student's final in this course.

230031 English III (H)

English III (H) is designed for the student who might be interested in pursuing the study of literature at the college level. It is also intended to better prepare those who are planning to take the AP Literature and Composition course during their senior year. Students will be required to read John Steinbeck's *The Grapes of Wrath*, prior to the beginning of the semester. All English III classes will be taken during the second semester.

313013 AP English Language and Composition

AP English Language and Composition concentrates on analyzing and writing argumentative and expository prose on a college level. Students become skilled readers of argumentative and expository prose written in a variety of rhetorical contexts, and become skilled writers who can employ effective rhetorical strategies and styles for a variety of purposes and audiences. Students will analyze complex texts, engage in thoughtful classroom discussions, practice the writing process, and write analytical, argumentative, and synthesis essays with an emphasis on important social issues. **In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity of receiving college credit or advanced placement in college. Summer reading is required. This course does fulfill the English III credit requirement.**

323013 AP English Lang. & Comp./WSCC Comp I

In addition to the above mentioned requirements of the AP English Language and Composition course, this course also follows the WSCC Comp I curriculum which incorporates instruction in argumentative writing, including invention, organization, style, and revision. Critical reading and thinking will be addressed through students' writing. Research skills and documentation will be introduced. **In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May. In order to receive WSCC credit, students must fulfill all WSCC requirements. Summer reading is required. This course does fulfill the English III credit requirement.**

9480 & 19480 Gateway English-12 (IEP)

Gateway English-12 is designed to teach reading, grammar, and spelling skills needed to pass the English II Gateway Exam. This class is taught based upon the Gateway Indicators and the exam will be taken once all indicators are mastered. Students must pass the English II Gateway Exam in order to be eligible for a regular high school diploma. This course is for elective credit only and is required to be taken both semesters.

30050 English IV

English IV includes composition skills, resumes, and business letters. In addition, vocabulary development and the research process will be covered. Grammar usage and mechanics will be reviewed as needed. Literary selections from Anglo-Saxon, Medieval, Renaissance, Elizabethan, Romantic, Victorian, and Contemporary periods will be studied.

230051 English IV (H)

English IV (H) emphasizes composition skills, resumes, and business letters. Vocabulary development, writing about literature, and the research process are emphasized. Also included is a survey of English literature: poetry, essay, short story and drama. Anglo-Saxon, Medieval, Renaissance, Elizabethan, Romantic, Victorian, and Contemporary selections will be studied.

313014 AP English Literature and Composition

AP Literature and Composition is a concentrated study of composi-

tion skills and a survey of literary works studied on a college level using collegiate textbooks. The course is designed to engage students in the careful reading and critical analysis of British and American literature. Students will deepen their understanding and appreciation of the techniques writers use to provide both meaning and pleasure to their readers. Students will evaluate a work's structure, style, and theme, as well as smaller-scale elements such as figurative language, imagery, symbolism, and tone. ***In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity of receiving college credit or advanced placement in college. Summer reading is required. This course does fulfill the English IV credit requirement.***

323014 AP English Lit. & Comp./WSCC Comp II

In addition to the above mentioned requirements of the AP English Literature and Composition course, this course also follows the WSCC Comp II curriculum emphasizing documented critical writing, based on an introduction to fiction, drama, and poetry. ***In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May. In order to receive WSCC credit, students must fulfill all WSCC requirements. Summer reading is required. This course does fulfill the English IV credit requirement.***

CORE ACADEMIC COURSES—Mathematics

IA = Instructor Approval Required
(H) = Honors

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
631023	Algebra I A X (S9) (Year-Long)	1 Elective Credit	IEP Team Placement
731023	Algebra I A X (9th) (Year-Long)	1 Elective Credit	Hamblen County Placement
831023 & 831024	Algebra I A Y (9th) & Algebra I B Y (9th)	1 Elective & 1 Math Credit	Hamblen County Placement
931023 & 931024	Algebra I A (9th) & Algebra I B (9th)	1 Elective & 1 Math Credit	Hamblen County Placement
931021 & 931081	Algebra I (H) (9th) & Geometry (H) (9th)	2 Mathematics Credits	Hamblen County Placement
831081 & 931031	Geometry (H) (9th) & Algebra II (H) (9th)	2 Mathematics Credits	Hamblen County Placement
9481 & 19481	Gateway Algebra-12 (IEP)	2 Elective Credits	IEP Team Placement
31023	Algebra I A	1 Elective Credit	None
31024	Algebra I B	1 Math Credit	Algebra I A
31080 or 131080	Geometry	1 Math Credit	Algebra I B
31030	Algebra II	1 Math Credit	Geometry
31033	Algebra II A	1 Elective Credit	Algebra I B
31034	Algebra II B	1 Math Credit	Algebra II A
103124 or 113124	Advanced Algebra/Trigonometry-ACT	1 Math Credit	C or lower in Algebra II
231081	Geometry (H)	1 Math Credit	B or above in Algebra I B and IA
31031 or 131031	Algebra II (H)	1 Math Credit	Geometry (H)
203124 or 213124	Advanced Algebra/Trigonometry (H)	1 Math Credit	Algebra I, Geometry, and Algebra II
203126 or 213126	PreCalculus (H)	1 Math Credit	High B, or above, average in Geometry and Algebra II or Adv. Algebra/Trig
303127 & 313127	AP Calculus I (AB)	2 Math Credits	PreCalculus and IA
303128 & 313128	AP Calculus II (BC)	2 Math Credits	AP Calculus I and IA

631023 Algebra I A X (S9) (Year-Long)**731023 Algebra I A X (9th) (Year-Long)**

Algebra I A X (Year-Long) is a course designed to provide students with the mathematics foundation necessary to be successful in Algebra I B, as well as subsequent mathematics courses. This course is taught for elective credit only. Students enrolled in this course will take Algebra I B during the first semester of their sophomore year.

831023 Algebra I A Y (9th) & 831024 Algebra I B Y (9th)**931023 Algebra I A (9th) & 931024 Algebra I B (9th)**

Algebra I A and Algebra I B are courses designed to help students acquire a basic knowledge of the fundamentals of Algebra. Both courses serve to prepare the student for future work in mathematics. Algebra I A is taken for an elective credit. Algebra I B is taken for a math credit. An End-of-Course (EOC) assessment will be given at the completion of Algebra I B and the score will count as 25% of the student's second 9-week grade for the Algebra I B course. **All students are required to pass Algebra I in order to receive a high school diploma.**

931021 Algebra I (H) (9th)

Algebra I (H) is a course designed for those students who have scored proficient on the Algebra I End-of-Course (EOC) Exam in middle school and need to review Algebra skills before proceeding to Geometry. This course covers the terminology, notation, concepts, skills, and application of elementary algebra, but it covers topics in greater depth than the regular Algebra course. An End-of-Course (EOC) assessment will be given at the completion of Algebra I and the score will count as 25% of the student's second 9-week grade for the Algebra I (H) course. **Students who are enrolled in Algebra I (H) first semester must also enroll in Geometry (H) second semester. All students are required to pass Algebra I in order to receive a high school diploma.**

831081 or 931081 Geometry (H) (9th)

Geometry (H) is a course designed for those students who have excelled in Algebra I. This course covers the terminology, notation, concepts, skills, and applications of Geometry, but covers the topics in greater depth than the regular Geometry course. An End-of-Course (EOC) assessment will be given at the completion of Geometry (H) and the score will count as 25% of the student's second 9-week grade for the Geometry (H) course. **Students enrolled in Geometry (H) first semester must also enroll in Algebra II (H) second semester. All students are required to pass Geometry in order to receive a high school diploma.**

931031 Algebra II (H) (9th)

Algebra II (H) is a course designed for the student who has excelled in Algebra I. This course covers the terminology, notation, concepts, skills, and applications of Algebra II. It covers the topics in greater depth than regular Algebra II. An End-of-Course (EOC) assessment will be given at the completion of Algebra II (H) and the score will count as 25% of the student's second 9-week grade for the Algebra II (H) course. **All students are required to pass Algebra II in order to receive a high school diploma.**

9481 & 19481 Gateway Algebra-12 (IEP)

Gateway Algebra-12 is designed to teach the basic knowledge of fundamentals of Algebra. The meaning of variables in algebraic expressions, solving equations, and solving inequalities are a few of the skills needed to be mastered. This class is based upon the Gate-

way indicators, and the exam will be taken once all indicators are mastered. **Students must pass the Algebra I Gateway Exam in order to be eligible for a regular high school diploma. This course is for elective credit only and is required to be taken both semesters.**

31023 and 31024 or 131024 Algebra I A and Algebra I B

Algebra I A and Algebra I B are courses designed to help students acquire a basic knowledge of the fundamentals of Algebra. Both courses serve to prepare the student for future work in mathematics. Algebra I A is taken for an elective credit. Algebra I B is taken for a math credit. An End-of-Course (EOC) assessment will be given at the completion of Algebra I B and the score will count as 25% of the student's second 9-week grade for the Algebra I course. **Students who are enrolled in Algebra I A first semester must also enroll in Algebra I B second semester. All students are required to pass Algebra I in order to be eligible for a high school diploma.**

31080 or 131080 Geometry

Geometry is designed for the study of plane and solid geometric figures. The student learns to discover properties through inductive reasoning and to prove those properties by using deductive reasoning. A basic requirement is that the student be proficient in Algebra I. **Students who are enrolled in Geometry first semester must also enroll in Algebra II second semester. All students are required to pass Geometry in order to be eligible for a high school diploma.**

231081 Geometry (H)

Geometry (H) is a course designed for the student who has excelled in Algebra I. This course covers the terminology, notation, concepts, skills, and applications of Geometry, but covers the topics in greater depth than the regular Geometry course. **Students who are enrolled in Geometry (H) first semester must also enroll in Algebra II (H) second semester. All students are required to pass Geometry in order to be eligible for a high school diploma.**

31030 or 131030 Algebra II**131033 and 131034 Algebra II A and Algebra II B**

Algebra II is a course designed to clarify, simplify, unify, and broaden concepts learned in Algebra I. It provides a review of the basic terminology, notation, concepts, skills, and application of elementary algebra. It covers topics in greater depth and introduces new topics. An End-of-Course (EOC) assessment will be given at the completion of Algebra II or Algebra II B and the score will count as 25% of the student's second 9-week grade for the Algebra II/Algebra II B course. **Students who are enrolled in Algebra II A (elective credit only) first semester must also enroll in Algebra II B (mathematics credit) second semester. All students are required to pass Algebra II in order to be eligible for a high school diploma.**

31031 or 131031 Algebra II (H)

Algebra II (H) is a course designed for the student who has excelled in Algebra I. This course covers the terminology, notation, concepts, skills, and applications of Algebra II, but in greater depth than the regular Algebra II course. An End-of-Course (EOC) assessment will be given at the completion of Algebra II (H) and the score will count as 25% of the student's second 9-week grade for the Algebra II (H) course. **All students are required to pass Algebra II in order to be eligible for a high school diploma.**

<p>103124 or 123124 Advanced Algebra/Trigonometry-ACT (H) This is a terminating math course that will focus on the mathematical topics necessary for successful completion of the ACT mathematics sub-test. Students who enroll in this course should not plan to take PreCalculus or other higher level math courses.</p> <p>203124 or 213124 Advanced Algebra/Trigonometry (H) The student will study trigonometry, functions, and algebra topics. This course is designed to enhance math skills for students who did not earn a high B or better in Algebra II and may desire to take Pre-Calculus.</p> <p>203126 or 213126 PreCalculus (H) PreCalculus (H) encompasses topics and concepts that grow out of Algebra. 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).</p> <p>303127 and 313127 AP Calculus I (AB) AP Calculus AB (I) is intended for the student who has a thorough knowledge of college preparatory mathematics including Algebra,</p>	<p>Axiomatic Geometry, Trigonometry, and analytical Geometry. AP Calculus AB (I) is a full year course. <i>In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity of receiving college credit or advanced placement in college.</i></p> <p>303128 & 313128 AP Calculus II (BC) AP Calculus BC (II) is a full year course in the calculus of functions of a single variable. The course is designed to qualify the student for placement and credit in a course that is one course beyond that granted for AP Calculus AB (I). This course will specifically cover topics such as parametric, polar, and vector functions; applications and computations of derivatives; techniques and applications of antidifferentiation; and polynomial approximations and series. <i>In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity of receiving college credit or advanced placement in college.</i></p>
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CORE ACADEMIC COURSES—Science			
			IA = Instructor Approval Required (H) = Honors
<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
903260	Environmental Science (9th)	1 Science Credit	Hamblen County Placement
932100	Biology I (9th)	1 Science Credit	Hamblen County Placement
932101	Biology I (H) (9th)	1 Science Credit	Hamblen County Placement
9482 & 19482	Gateway Biology-12 (IEP)	2 Elective Credits	IEP Team Placement
3260	Environmental Science	1 Science Credit	None
32100	Biology I	1 Science Credit	Environmental Science
232101	Biology I (H)	1 Science Credit	Environmental Science and IA
3202	Physical Science	1 Science Credit	Biology I and Algebra I
232021	Physical Science (H)	1 Science Credit	Biology I (H), Algebra I, and IA
3221	Chemistry I	1 Science Credit	Algebra I (B Average), Biology I and/or Physical Science
232211	Chemistry I (H)	1 Science Credit	Geometry/Algebra II (B average), Biology I (H), IA
(The following two courses must be taken together)			
203216	Biology II (H)	1 Science Credit	Biology I (H) and IA
313217	AP Biology	1 Science Credit	Biology II (H) and IA
(The following two courses must be taken together)			
203224	Chemistry II (H)	1 Science Credit	Chemistry I (H) and IA
313225	AP Chemistry	1 Science Credit	Chemistry II (H) and IA
313236	AP Environmental Science	1 Science Credit	Biology I, Chemistry I, and IA
203231	Physics (H)	1 Science Credit	Chemistry I, Pre-Calculus, and IA
203295 & 213295	Bioenergy Research (H)	2 Science Credits	Biology I, Chemistry I, and IA

<p>903260 Environmental Science (9th) Environmental Science is a laboratory science that will enable students to develop an understanding of the natural environment and the environmental problems the world faces. Students will investigate fundamental ecological principles, human population dynamics, natural resources, energy sources, human interactions with the envi-</p>	<p>ronment and personal and civic responsibility.</p> <p>932100 Biology I (9th) Biology I is an introduction to the study of the organization and function of prokaryotic and eukaryotic cells. Topics to be covered include basic chemistry, organic compounds, metabolism, organelle and</p>
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membrane structure, biochemical processes and the molecular basis of inheritance. The laboratory offers the opportunity to explore biological concepts through observation, experimentation, and data collection and analysis, using both classical and modern techniques and instrumentation. An End-of-Course (EOC) assessment will be given at the completion of Biology I and the score will count as 25% of the student's second 9-week grade for the Biology I course. **All students are required to pass Biology I in order to be eligible for a high school diploma.**

932101 Biology I (H) (9th)

Biology I (H) is designed for the student who might be interested in pursuing the study of Biology at the college level. This course develops the relationships among plants, animals, and the environment and includes all topics and theories of Biology. The subject is approached from a molecular standpoint, developing the concepts of cell biology, genetics, comparative anatomy through dissection of various organisms, and reproduction. Various labs and organism dissection will support the topics of discussion. Students will be required to complete a research paper at the end of the semester at the discretion of the teacher. An End-of-Course (EOC) assessment will be given at the completion of Biology I (H) and the score will count as 25% of the student's second 9-week grade for the Biology I course. **All students are required to pass Biology I in order to be eligible for a high school diploma.**

Biology I (H) is a required prerequisite for Biology II (H) and AP Biology.

9482 & 19482 Gateway Biology-12 (IEP)

Gateway Biology-12 develops the relationships among plants, animals, and the environment. Concepts for cell biology, genetics, and reproduction are developed. This class is taught based upon the Gateway indicators and the exam will be taken once all indicators are mastered. **Students must pass the Biology I Gateway Exam in order to be eligible for a regular high school diploma.** This course is taken for elective credit only.

3260 Environmental Science

Environmental Science is a laboratory science that will enable the student to develop an understanding of the natural environment and the environmental problems the world faces. The student will investigate fundamental ecological principles, human population dynamics, natural resources, energy sources, human interactions with the environment, and personal and civic responsibility. A study of the biodiversity of local streams will provide real world applications of the course work. This is an excellent course for those students who are not quite ready for Biology I.

32100 Biology I

Biology I is an introduction to the study of the organization and function of prokaryotic and eukaryotic cells. Topics to be covered include basic chemistry, organic compounds, metabolism, organelle and membrane structure, biochemical processes and the molecular basis of inheritance. The laboratory offers the opportunity to explore biological concepts through observation, experimentation, and data collection and analysis, using both classical and modern techniques and instrumentation. An End-of-Course (EOC) assessment will be given at the completion of Biology I and the score will count as 25% of the student's second 9-week grade for the Biology I course. **All students are required to pass Biology I in order to be eligible for a high school diploma.**

3202 Physical Science

Physical Science is a laboratory science that explores the relationship between matter and energy. Students will investigate the basic components of chemistry and physics.

232021 Physical Science (H)

Physical Science (H) is a laboratory science that explores the relationship between matter and energy in greater detail than the regular physical science course. Students investigate physical science concepts through an inquiry-based approach with an emphasis on the components of chemistry and physics.

32210 Chemistry I

Chemistry is a laboratory science course in which students study the composition of matter and the physical and chemical changes it undergoes. In this course, students use science process skills to investigate the fundamental structure of atoms, the way they combine to form compounds, and the interactions between matter and energy. Students explore chemistry concepts through an inquiry approach. **All students are required to pass either Chemistry or Physics in order to be eligible for a high school diploma.**

232211 Chemistry I (H)

Chemistry I (H) is a more in-depth, more challenging version of Chemistry I. Laboratory work is more demanding, as are the mathematical skills required in problem solving. **All students are required to pass either Chemistry I or Physics in order to be eligible for a high school diploma.**

(The following two courses must be taken together)

203216 Biology II (H)

Biology II (H) is a science course that builds on topics taught in Biology I (H). This course provides an in-depth study of cell biology and its relationship to the student's environment. This course is designed to simulate the detailed approach to biology much like in college. Other current topics such as viral mutation, gene splicing, recombinant DNA, and antibody production will be addressed. Students will explore biology concepts through labs and an inquiry approach. **This course is a prerequisite for AP Biology.**

313217 AP Biology

AP Biology is designed to be the equivalent of a first year in college, general biology course. AP Biology is intended for students who are seeking a rigorous course in biology and intending to pursue a career in the biological sciences or medical profession. This course includes topics regularly covered in a college biology course and uses a college textbook. Students are provided with the conceptual framework, factual knowledge, and analytical skills necessary to deal with the rapidly changing science of biology. **In order to receive AP to credit, students will be required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity to receive college credit or advanced placement in college.**

(The following two courses must be taken together.)

203224 Chemistry II (H)

Chemistry II (H) is a laboratory science course that builds on topics taught in Chemistry I (H). This course investigates chemical bonding and how the kinetic molecular theory and intermolecular forces explain the physical and chemical characteristics of matter. Additional aspects of chemical reactions including limiting reactants, percent yield, equilibrium, reaction rates, and thermochemistry are considered. Students explore chemistry concepts through an inquiry approach. **This course is a prerequisite for AP Chemistry.**

313225 AP Chemistry

AP Chemistry is designed to be the equivalent of a first year college, general chemistry course. It is intended for students who have a thorough knowledge of college preparatory science and mathematics. The student will attain an in-depth understanding of the fundamentals and a reasonable competence in dealing with chemical problems. Extensive laboratory work is a major part of this course. **In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity to receive college credit or advanced placement in college.**

313236 AP Environmental Science

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and method-

ologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. **In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity to receive college credit or advanced placement in college.**

32311 Physics (H)

Physics is the study of matter and energy in various forms and the uses of energy in today's world. The main forms of energy that are studied involve mechanics, heat, sound, light, electricity, and atomic physics.

203295 & 213295 Bioenergy Research

Bioenergy Research is a research-based science course designed to introduce students to the principles of scientific investigation. Students receive an extensive background on the compounds and materials obtainable from existing and future renewable energy sources. Laboratory investigations focus on synthesizing biofuels and testing their performance in different engine systems. After school trips to local biofuels manufacturing and research facilities are expected. In addition, students are required to perform independent research on an approved bioenergy-related topic, collect and analyze data, and write a research paper. **All students must prepare a poster presentation and present their research findings at a local, regional, state, or national science fair to receive credit for this course.** An interview with the instructor are required before admission to this course.

CORE ACADEMIC COURSES—Social Studies

IA = Instructor Approval Required
(H) = Honors

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
903410	World Geography (9th)	1 Social Studies Credit	Hamblen County Placement
923401	World History (H) (9th)	1 Social Studies Credit	Hamblen County Placement
903450	AP Human Geography (9th)	1 Social Studies Credit	Hamblen County Placement
3401	World History	1 Social Studies Credit	None
3433	Psychology	1 Social Studies Credit	None
3432	Sociology	1 Social Studies Credit	None
303441 & 313441	AP European History	2 Social Studies Credits	IA
303449 & 313449	AP World History	2 Social Studies Credits	IA
313447	AP Psychology	1 Social Studies Credit	IA
34050	US History	1 Social Studies Credit	11th or 12th Grade Student
234051	US History (H)	1 Social Studies Credit	11th or 12th Grade Student
303440 & 313440	AP US History	2 Social Studies Credits	IA
3407	US Government/Economics	1 Social Studies Credit	12th Grade Student
2034071	US Government/Economics (H)	1 Social Studies Credit	12th Grade Student
303445 & 313445	AP Government & Politics US/ AP Macroeconomics/AP Microeconomics	2 Social Studies Credits	12th Grade Student and IA

903410 World Geography (9th)

World Geography is an introductory course that includes the formation of the earth and its relationship to the universe, climate, relief map reading, cultures and origins, major physical features, boundaries, and a complete unit on the United States.

923401 World History (H) (9th)

Advanced World History is a survey course designed to introduce students to the major events, people, ideas, and cultures of the world. The course will introduce creation, early civilizations, the Renaissance, modern history, and World War II. Emphasis is placed on governments, political leaders, and religion. Requirements include homework, daily quizzes, chapter tests, unit tests, research papers, writing and creative thinking skills, and map tests.

903450 AP Human Geography (9th)

The purpose of AP Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students use special concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. ***In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity of receiving college credit or advanced placement in college.***

3401 World History

World History is a survey course designed to introduce students to the major events, people, ideas, and cultures of the world. The course will introduce early civilizations such as the Renaissance period, World War II, and modern history. Emphasis is placed on governments, political leaders, and religions. Requirements include homework, daily quizzes, chapter tests, unit tests, research papers, writing, creative thinking skills, and map tests.

3433 Psychology

This course investigates the effect of biological and environmental factors on the behavior and thinking of individuals. Topics include the study of human development, memory, personality, mental illness, and techniques used in coping with everyday problems such as stress. The study of human relationships will include an examination of the ways people interact with one another. Students will study relationships in social institutes such as family and the organization of societies. Problems such as prejudice, discrimination, poverty, crime, violence, and adolescence will be included.

3432 Sociology

In Sociology, students learn to approach social issues with objective problem-solving skills. They will learn to view their own lives within a larger social and historical context and to understand the social processes and social systems in their community. Topics included will be the study of culture, social control, social stratification, social institutions, and social problems such as poverty, discrimination, and crime. While studying these topics, students will learn to analyze real life situations to gain an understanding of their causes, effects, and solutions. By comparing cultures, students will gain a more diverse view of the ways that groups live and deal with change.

303441 & 313441 AP European History

The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. The goals of AP European History are to develop an understanding of some of the principal themes in modern European history; an ability to analyze historical evidence and historical interpretation; and an ability to express historical understanding in writing. ***Students are required to take the Advanced Placement examination given nationwide in May, with the opportunity to receive college credit or advanced placement in college.***

303449 & 313449 AP World History

The purpose of AP World History is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge used in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. ***Students are required to take the Advanced Placement examination given nationwide in May, with the opportunity to receive college credit or advanced placement in college.***

313447 AP Psychology

AP Psychology investigates the effect of biological and environmental factors on the behavior of individuals. Topics include the study of human development, personality, memory, mental illness, and techniques used in coping with everyday problems such as stress. ***Students are required to take the Advanced Placement examination given nationwide in May, with the opportunity to receive college credit or advanced placement in college. Students cannot enroll in AP Psychology if they have taken the regular Psychology course.***

34050 US History

US History is designed to cover the period from pre-colonial to the present. Emphasis is placed on current events and some research is required. ***This course is required for graduation.***

234051 US History (H)

US History (H) also covers the period from pre-colonial to the present but in greater depth and at a faster pace. Emphasis will be placed on current events and research will be required in addition to extensive outside reading.

303440 & 313440 AP US History

AP US History is a survey study equivalent to the demands of an introductory college course. Emphasis is on the time from the colonial period to the present. This course requires an in-depth study, using the chronological and/or topical approach, of the political, socio-economic, and cultural aspects of this period. An advanced textbook will be used and extensive reading will be required. ***Students are required to take the Advanced Placement examination given nationwide in May, with the opportunity to receive college credit or advanced placement in college.***

<p>3407 US Government/Economics This course provides a comprehensive study of the government and economy of the United States. This course will examine the nature, organization, and function of local, state, and federal governments. Economics will examine the basic economic theories and application to the economy. This course is required for graduation.</p> <p>2034071 US Government/Economics (H) This course provides a comprehensive and challenging study of the government and economy of the United States. This course will examine the nature, organization, and function of local</p> <p>303445 & 313445 AP Government & Politics US/ AP Macroeconomics/AP Microeconomics GPO/Macro/Micro is a comprehensive study of US Government and Economics. The GPO portion of the course includes both the study of general concepts used to interpret US government and</p>	<p>politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute US government and politics. The Macro portion of the course places primary emphasis on the nature and functions of product markets and includes the study of factor markets and of the role of government in promoting greater efficiency and equity in the economy. The Micro portion of the course focuses on providing to students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. This is a year-long course. Students will spend approximately 11 weeks per course, allowing three weeks at the end of the year for review. Students are required to take at least one of the three Advanced Placement examinations associated with this course given nationwide in May, with the opportunity to receive college credit or advanced placement in college.</p>
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ELECTIVE COURSES—Language Arts IA = Instructor Approval Required

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
203741 & 213741	Journalism Yearbook	2 Elective Credits	IA (Application available from Mr. Glandon-223)
13741 & 23741	Journalism Newspaper	2 Elective Credits	IA (Application available from Mr. Moodie-209)

<p>203741 & 213741 Journalism Yearbook Journalism Yearbook is a nine-week intensive training course with the remainder of the year used as a lab for the actual production of a yearbook. Topics covered include yearbook finance, planning, theme development, basic layout, copywriting, copy preparation, and legal and ethical responsibility. Students publish the ITAKHA. Applications are available from Mr. Glandon in Room 223.</p>	<p>13741 & 23741 Journalism Newspaper Journalism Newspaper is a full year production of the school newspaper as a primary objective. Emphasis is on news writing style with practice in editing, layout, and headline writing. Desktop publishing is used in the production of the paper. Computer skills are desired. In addition to writing skills, students with skills in interviewing, investigative skills, creativity, and interest in artistic design are encouraged to apply. This is an all year course. Applications are available from Mr. Moodie in Room 209.</p>
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ELECTIVE COURSES—Fine Arts IA = Instructor Approval Required

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
903501	Art I (9th)	1 Elective/Fine Arts Credit	None
903521	Drama I (9th)	1 Elective/Fine Arts Credit	B Average in English
903531	Chorus: General (9th)	1 Elective/Fine Arts Credit	None
3501	Art I	1 Fine Arts Credit	None
3052	Art II	1 Fine Arts Credit	C average or better in Art I
3503	Art III	1 Fine Arts Credit	C average or better in Art II
3505	Introduction to Music	1 Fine Arts Credit	None
3514	Music Theory & Harmony	1 Fine Arts Credit	None
3530	Band I: Marching Band	1 Fine Arts Credit	None
13530	Band II: Concert Band	1 Fine Arts Credit	None
3521	Drama I	1 Fine Arts Credit	None
3522	Drama II	1 Fine Arts Credit	B average in Drama I and Admission by Audition Only (IA)
3523 & 13523	Forensics-Drama	2 Fine Arts Credits	IA
9395	Youth Leadership	1 Elective Credit	By Application Only (10th & 11th)
3531 & 13531	Chorus: Concert	2 Fine Arts Credits	Admission by Audition Only (IA)
203531 & 213531	Chorus: Advanced	2 Fine Arts Credits	Admission by Audition Only (IA)
403081	Broadcasting	1 Fine Arts Credit	Art I and an advanced computer course

903501 Art I (9th)

Art I is a one-semester credit course that explores the eight elements of art through studio art including drawing, painting, collage, and assemblage. The later part of the course involves investigations of artists and art history using skills developed earlier in the course. This course is open to all students.

903521 Drama I (9th)

This is both a general communications class and an introduction to theatre. Students prepare speeches, work cooperatively with peers, and participate in informal theatre activities such as storytelling, pantomime, and improvisation. Students maintain a notebook and a portfolio of their work.

903531 Chorus: General (9th)

General Chorus is designed for the beginning music student interested in vocal performance. The emphasis will be on learning to read music and rhythms. It will serve as a prerequisite for Chorus: Concert and/or Chorus: Advanced and is a fine arts credit.

3501 Art I

Art I is a course that explores the eight 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 using skills developed earlier in the course. This course is open to all students.

3052 Art II

Art II offers the student an environment in which they can further build upon the skills developed in Art I. In-depth investigations of important artists and critical periods of art history are conducted through 2-dimensional and 3-dimensional assignments and student developed projects. The ability to work independently and to be self-motivated is essential.

3503 Art III

This visual art course 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 print making are included.

3505 Introduction to Music

This course presents the main elements of music, how it has developed and changed throughout history, and the role music plays in our society. Emphasis is placed on the understanding of musical elements and their aural applications. Knowledge of how to play an instrument is not required for this course.

3514 Music Theory & Harmony

This course provides the student with the skills to compose and analyze music. Students polish their skills in note reading, scale construction, interval study, chord building, melody writing, ear training, and creative composition writing.

3530 Band I: Marching Band

The band supports our athletic department by performing at all football games, selected festivals (requires some Saturdays), and parades. After-school rehearsals are required during the marching band season. There is a required band camp two weeks prior to the

start of school.

13530 Band II: Concert Band

The primary goal of the Concert Band is to develop a working knowledge and performance ability of Concert Band and solo repertoire. The band performs at concert festivals, graduation, and a spring concert. The band will also support our athletic department by performing at basketball games.

3521 Drama I

This class includes a survey of theatre history and emphasizes acting/directing exercises as well as analysis and performance of scenes. Drama I also involves research and outside reading. Opportunities for performance include participation in community events and participation in community outreach programs for children.

3522 Drama II

The objective of Drama II is to prepare the student, who has a background in theatre, for a theatrical performance. This performance is normally a one-act play. Drama II emphasizes scene analysis, character development, and involvement in all aspects of the production process. Research and outside reading are required.

3523 & 13521 Forensics—Drama

Forensics offers a unique experience for students to explore literature through interpretation and public speaking events. This course allows students to express themselves through debate, extemporaneous speaking, original oratory, impromptu as well as many acting events. This class requires that students attend Saturday tournaments.

9395 Youth Leadership

The Youth Leadership course is offered to sophomore and junior students who have demonstrated outstanding leadership abilities. The purpose of this course is to assist the student in gaining an in-depth knowledge of his/her community, to more fully develop their leadership qualities, and to assume future leadership roles. This course is open to sophomore and junior students by application only. Students who are interested in applying for this course must complete a written application, have excellent school attendance (no more than five excused absences per semester), participate in a personal interview, and have a minimum GPA of 2.0. **Applications are available from Mr. Wooley in Room 221.**

3531 & 13531 Chorus: Concert

This course is a performance oriented choral class. Musical understanding based on aural perception, history, and literature of music form and style is taught. Students should be advanced in their knowledge of music reading.

203531 & 213531 Chorus: Advanced

Chorus: Advanced is limited to forty-eight students selected by audition from Chorus: General and Chorus: Concert. Students will be expected to participate in special performances.

403081 Broadcasting

Broadcasting is a course intended to teach advanced techniques in digital graphic and video creation using computers. Students will use video cameras, the web, and computers to create their own videos and videos for the school. To accomplish this, students will learn

filming, editing, compositing, and special effects production techniques common to the motion picture and broadcasting industries. This course is open to Sophomores, Juniors, & Seniors. Students should have previously taken art and an advanced computer class.

ELECTIVE COURSES—Health Education

IA = Instructor Approval Required

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
903303	Lifetime Wellness (9th)	1 Elective Credit	None
913303	Lifetime Wellness (FB) (9th)	1 Elective Credit	Football Players Only
3033	Lifetime Wellness (Repeat)	1 Elective Credit	Failure of Lifetime Wellness as a Freshman
3302	PE II/Weightlifting	1 Elective Credit	A passing grade in Lifetime Wellness and/or an A or B in previous Advanced PE II course
3321	Driver Education	1 Elective Credit	15 years of age, a GPA or 3.0 or better to take as a sophomore, a driving permit
33302	PE II/Weightlifting (BB)	1 Elective Credit	Basketball Players Only
13302 & 23302	PE II/Weightlifting (FB)	2 Elective Credits	Football Players Only

903303 Lifetime Wellness (9th)

This course places emphasis on physical activity. Sufficient time is allotted to demonstrate improvement in health related fitness areas. Units to be taught include nutrition, substance use/abuse, sexuality and family life, safety and first aid, disease prevention and control, as well as mental health and personal fitness. **Students must pass this course in order to be eligible for a high school diploma.**

taught how to develop and strengthen the different muscles of the body with emphasis placed on cardio-vascular conditioning. **Students are required to successfully complete Lifetime Wellness before taking this course. Students who take this course more than one time must have an A or B in a previous course.**

913303 Lifetime Wellness (FB) (9th)

This course contains all of the components of 903303. In addition, the student will be taught how to develop and strengthen the different muscles of the body with emphasis placed on cardio-vascular conditioning, as well as the proper techniques of weightlifting. This course is for freshmen football players only and will be taught during the 2nd semester. **Students must pass this course in order to be eligible for a high school diploma.**

3321 Driver Education

Driver Education is divided into three different teaching strategies. The student will spend thirty hours in the classroom, fifteen hours in the simulator, and six hours behind the wheel driving on the road. A fee of \$25.00 is required. Upon completion of the course, the student should be able to drive in a safe, cooperative manner, and finish the graduated driver license program that is required by the Tennessee State Department of Safety. **A valid Tennessee permit is required for this course. Students wishing to obtain and maintain a permit and/or license must have satisfactory grades and attendance. Students who do not maintain satisfactory progress in school will lose their drivers license or permit.**

3033 Lifetime Wellness (Repeat)

This course places emphasis on physical fitness. Sufficient time is provided to demonstrate improvement in health related fitness areas. Units to be taught include nutrition, substance use/abuse, sexuality and family life, safety and first aid, disease prevention and control, as well as mental health, and personal fitness. **Successful completion of this course is required to obtain a high school diploma.**

33302 PE II/Weightlifting (BB)**13302 & 23302 PE II/Weightlifting (FB)**

This PE II/Weightlifting course is designed to teach the student the proper techniques of weightlifting. The student will be taught how to develop and strengthen the different muscles of the body with emphasis placed on cardio-vascular conditioning. **This course is for basketball and football players only and will be taught 4th period. Senior varsity football players should only sign up for the fall semester course.**

3302 PE II/Weightlifting

Advanced Physical Education II/Weightlifting is designed to teach the student the proper techniques of weightlifting. The student will be

ELECTIVE COURSES—World Languages

IA = Instructor Approval Required

French

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
3041	French I	1 Foreign Language Credit	GPA of 2.5 or higher and a B average in English
3042	French II	1 Foreign Language Credit	11th or 12th grade and C average in French I
3043	French III (H) (MHHSW)	1 Foreign Language Credit	French I, II, and IA
313045	AP French Language (MHHSW)	1 Foreign Language Credit	French I, II, III, and IA

ELECTIVE COURSES—World Languages (Continued)

IA = Instructor Approval Required

German

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
3051	German I	1 Foreign Language Credit	GPA of 2.5 or higher and a B average in English
3052	German II	1 Foreign Language Credit	11th or 12th grade and C average in German I
3053	German III (H)	1 Foreign Language Credit	German I, II, and IA
323055	AP German Language (MHHSW)	1 Foreign Language Credit	German I, II, III and IA

Spanish

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
3021	Spanish I	1 Foreign Language Credit	GPA of 2.5 or higher and a B average in English
3022	Spanish II	1 Foreign Language Credit	11th or 12th Grade and C average in Spanish I
3023	Spanish III (H) (MHHSW)	1 Foreign Language Credit	Spanish I, II, and IA
323025	AP Spanish Language (MHHSW)	1 Foreign Language Credit	Spanish I, II, III and IA

3041 French I

French I is an introduction to the French language and culture in which the student is expected to build a basic vocabulary and knowledge of standard everyday expressions so that he/she can begin to communicate in French. Basic French grammar concepts are studied. It is recommended that students enrolling in this course have a good background in English grammar.

3042 French II

French II begins with an extensive review of grammar concepts studied in French I. New grammatical, cultural, and conversational material will be introduced within the context of familiar activities. French conversation, both spontaneous and directed, is used in class.

3043 French III (H) (West High)

French III is designed to give practical experience to the basic elements of the French language that the students learn in French I and French II. The student will do hands-on activities, spontaneous situational dialogue, life-skills for a French-speaking country, etc. Students will read and respond to French literature which the students will see in college. All four elements necessary for success in a language class (reading, writing, speaking, and listening) will be practiced in class each day. The class will be conducted primarily in French.

313045 AP French Language (West High)

Students who enroll in AP French Language should already have a good command of French grammar and vocabulary and have competence in listening, reading, speaking, and writing. This course emphasizes the use of language for active communication and helps students understand and develop the ability to understand spoken French in various contexts; develop a French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other nontechnical writings without dependence on a dictionary; and develop the ability to express themselves coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. ***In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity of receiving college credit or advanced placement in college.***

3051 German I

The purpose of this course is to enable the student to begin to acquire proficiency in German through a well-balanced approach with

emphasis on the development of the four language skills (listening, speaking, reading, and writing). The course content closely adheres to the National Standards for Foreign Language Learning. Cross-cultural understanding is fostered as well, and real-life applications are emphasized throughout the course.

3052 German II

The purpose of this course is to systematically deepen and improve the four language skills with emphasis on grammatical structure and culture.

3053 German III (H)

This course continues to expand skills in all four areas: speaking, reading, listening, and writing. Students will develop analytical and interpretative skills via the reading of a full-length drama, the reading of short prose and poetry, as well as through media selections on contemporary issues in German-speaking cultures. The coursework includes discussions and compositions based on these texts, a review of grammar, and the development of vocabulary-building strategies.

323055 AP German Language (West High)

The AP German Language course is intended to be roughly equivalent both in content and in difficulty to an advanced-level college German language course. AP German Language emphasizes the use of language for active communication. Students taking this course should develop a strong command of vocabulary and structure; an understanding of spoken German in various conversational situations; the ability to read newspaper and magazine articles, contemporary fiction, and nontechnical writings without the use of a dictionary; and the ability to fluently and accurately express ideas orally and in writing. ***In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity of receiving college credit or advanced placement in college.***

3021 Spanish I

Spanish I is a course in which the students begin to develop a basic vocabulary and knowledge of everyday expressions so that they can communicate in Spanish. Cultural concepts related to countries where Spanish is spoken are introduced. Basic grammar concepts are studied. The relationship between the study of Spanish and the achievement of future career goals is emphasized.

3022 Spanish II

Spanish II is a continuation and expansion of the grammatical, cultural, and conversational concepts introduced in Spanish I. Ability to communicate in everyday situations is emphasized. Students increase their vocabulary and their ability to understand spoken Spanish.

3023 Spanish III (H) (West High)

Spanish III provides a quick review of topics covered in Spanish I and Spanish II. Oral language skills are emphasized. Short stories, plays, and poetry are read and studied. In addition to expanding skills in the areas of reading, writing, speaking, and listening, cultural topics related to Spanish-speaking countries are addressed.

323025 AP Spanish Language (West High)

AP Spanish Language is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students who enroll should already have a basic knowledge of the language and cultures of Spanish-speaking peoples and should have attained a reasonable proficiency in using the language. The AP Spanish Language course will help prepare students to demonstrate their level of Spanish proficiency across three communicative modes (Interpersonal, Interpretive, and Presentational). ***In order to receive AP credit, students are required to take the Advanced Placement Exam (cost of \$86.00) given nationwide in May, with the opportunity of receiving college credit or advanced placement in college.***

CTE ELECTIVE COURSES—CAREER CLUSTERS—AGRICULTURE EDUCATION

IA = Instructor Approval Required
Freshman Level Courses—Bold

AGRICULTURE, FOOD, AND NATURAL RESOURCES**Plant Systems—Horticulture Production**

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5184 (905184)	Principles of Horticultural Sciences	1 Elective Credit	Interest in Agriculture
5164	Floral Design	1 Elective Credit	Principles of Horticultural Sciences
5167	Greenhouse Management	1 Elective Credit	Principles of Horticultural Sciences
5175	Plant Biotechnology	1 Elective Credit	Principles of Horticultural Sciences and Biology I

Plant Systems—Landscaping and Turf Science

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5184 (905184)	Principles of Horticultural Sciences	1 Elective Credit	Interest in Agriculture
5163	Landscaping and Turf Management	1 Elective Credit	Principles in Horticultural Sciences
5167	Greenhouse Management	1 Elective Credit	Principles in Horticultural Sciences
5175	Plant Biotechnology	1 Elective Credit	Principles in Horticultural Sciences and Biology I

Power Structures and Technical Systems

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5154 (905154)	Principles of Agricultural Sciences	1 Elective Credit	Interest in Agriculture
5151	Agriculture Mechanics & Maintenance	1 Elective Credit	Principles of Agricultural Sciences
5152	Agriculture Power & Equipment	1 Elective Credit	Principles of Agricultural Sciences
5178	Agriculture Engineering	1 Elective Credit	Principles of Agricultural Sciences

Additional Courses

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5155	Adv. Principles of Agricultural Sciences	1 Elective Credit	Principles of Agricultural Sciences
5108 & 15108	Cooperative Methodology-AG	2 Elective Credits	IA—Seniors Only

AGRICULTURE ACADEMY—Plant Systems—Horticulture Production Sub-Cluster

Students who exit from this academy will be better prepared to obtain articulation credit with local technical and community colleges. Completion of these courses will fulfill the Horticulture Production sub-cluster.

5184 Principles of Horticultural Sciences (905184)

This course introduces students to the vast areas of the horticulture industry. Topics include leadership, greenhouse management, garden center operations, floriculture, nursery operations, landscaping, and turf grass management. An introduction to plant and soil science is included as a necessary foundation to the success of today's horticulturalist. Students will be encouraged to actively participate in FFA activities. Upon approval, students may be able to receive early release and additional credit for work based learning.

5164 Floral Design

This course is designed to introduce the student to the career possibilities in the floral industry and to provide basic instruction in the techniques of floral design. It includes standards that prepare the student to produce creative floral arrangements for various events and cultures. Students will be encouraged to actively participate in FFA activities. Upon approval, students may be able to receive early release and additional credit for work based learning.

5167 Greenhouse Management

This course will provide "hands-on" experience in the production of greenhouse plants such as poinsettias, bedding plants, and hanging baskets. Students will study leadership, career opportunities, plant propagation techniques, fertilization, integrated pest control, environmental control, and greenhouse design. Also, computer applications in greenhouse scheduling, budgeting, and other management areas will be taught. Students will be encouraged to actively participate in FFA activities. Upon approval, students may be able to receive early release and additional credit for work based learning.

5175 Plant Biotechnology

This course is to prepare students with interests in higher-level, science-based plant agriculture. This course includes biological science standards. Students enrolled in this course will study rigorous standards related to the principles of plant growth, cell structure and functions, heredity and genetics (molecular biology), plant breeding and improvement, hormones and growth regulators, chemical nature of plant life, flower structure and function, seed formation and germination, DNA and biotechnology, and emerging technologies. Students will use the scientific methods to investigate a plant problem. Students will be encouraged to actively participate in FFA activities. Upon approval, students may be able to receive early release and additional credit for work based learning.

AGRICULTURE ACADEMY—Plant Systems—Landscaping and Turf Science Sub-Cluster

Students who exit from this academy will be better prepared to obtain articulation credit with local technical and community colleges. Completion of these courses will fulfill the Landscaping and Turf Science sub-cluster.

5184 Principles of Horticultural Sciences (905184)

5163 Landscaping and Turf Management

Landscaping and Turf Management includes standards to prepare students for creating beautiful environments for homes and businesses. This study includes site analysis and preparation, landscape drawing, plant selection, and installation. Maintenance of healthy attractive landscapes and turf areas will be emphasized. With the increase of urban sprawl these career opportunities are increasing daily. Plant science and leadership skills are taught in this class will prepare students to meet the demands of this exciting industry. Students will be encouraged to actively participate in FFA activities. Upon approval, students may be able to receive early release and additional credit for work based learning.

5167 Greenhouse Management

5175 Plant Biotechnology

AGRICULTURE ACADEMY—Power Structures and Technical Systems Sub-Cluster

Students who exit from this academy will be better prepared to obtain articulation credit with local technical and community colleges. Completion of these courses will fulfill the Power Structures and Technical Systems sub-cluster.

5154 Principles of Agricultural Sciences (905154)

Principles of Agricultural Sciences is designed to develop the basic theories and principles involved in animal science, agribusiness, agricultural mechanics, and natural resource management. The standards prepare students to choose among agricultural careers for the 21st century. Students are provided with practical applications in these areas of study. Students will be encouraged to actively participate in FFA activities.

5151 Agriculture Mechanics & Maintenance

Skill development and applications in arc welding, woodworking, oxy-acetylene cutting, and metal work will be stressed. The course also deals with agricultural machinery repair and maintenance, agricultural structures, and other projects. Students will be encouraged to actively participate in FFA activities. Upon approval, 11th and 12th grade students may be able to receive early release and additional credit for work based learning.

5152 Agriculture Power & Equipment

Applications in Mig welding, power woodworking, plasma cutting, electricity, hydraulics, power transmission, gas and diesel engine theory and service, and small engine repair will be stressed. The course also deals with agricultural machinery and equipment design and construction. Students will be encouraged to actively participate in FFA activities. Upon approval, 11th and 12th grade students may be able to receive early release and additional credit for work based learning.

5178 Agricultural Engineering

Principles of Agricultural Engineering includes the development and application of advanced skills in metal fabrication, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, principles of electricity, electrical wiring to National Electrical Code standards, engine service and repair, blueprint reading, agricultural building construction and materials computations. Alternative fuel production and experimentation may be included. Students will be encouraged to actively participate in FFA activities. Upon approval, students may be able to receive early release and additional credit for work based learning.

(Additional Courses)

5155 Advanced Principles of Agricultural Sciences

Students will develop skills needed for career planning, record keeping, and leadership for the agriculture industry. Advanced principles in animal selection, health and maintenance will be included. Students will study soils, land management, crop production and advanced cropping systems. Students will be encouraged to actively participate in FFA activities. Upon approval, students may be able to receive early release and additional credit for work based learning.

5108 & 15108 Cooperative Methodology—Agriculture

Requires the approval of Agriculture Work-Based Learning Coordinator, Mr. Henegar. This course is for seniors only.

CTE ELECTIVE COURSES—CAREER CLUSTERS—BUSINESS TECHNOLOGY EDUCATION

IA = Instructor Approval Required
Freshman Level Courses—Bold

BUSINESS, MANAGEMENT, AND ADMINISTRATION

Business Financial Management and Accounting

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
3718 (903718)	Computer Applications	1 Elective Credit	None
3779	Accounting I	1 Elective Credit	Computer Applications
3780	Accounting II	1 Elective Credit	Accounting I
3707	Business Management	1 Elective Credit	Accounting II

Human Resources

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
3718 (903718)	Computer Applications	1 Elective Credit	None
3704	eBusiness Communications	1 Elective Credit	Computer Applications
3746	Interactive Multimedia Presentation	1 Elective Credit	Computer Applications
3730	Integrated Input Technologies	1 Elective Credit	Interactive Multimedia

Additional Courses

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
3760	Web Page Design-eCommerce	1 Elective Credit	Computer Applications
3735	Database Design Management	1 Elective Credit	Algebra I
3761	JAVA Programming	1 Elective Credit	Computer Applications

INFORMATION TECHNOLOGY

Interactive Multimedia

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
3718 (903718)	Computer Applications	1 Elective Credit	None
3746	Interactive Multimedia Presentation	1 Elective Credit	Computer Applications
3741	Desktop Publishing	1 Elective Credit	Computer Applications

Business Financial Management and Accounting Sub-Cluster

3718 Computer Applications (903718)

This course is designed to develop computer technology skills. Students will use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the historical, social, and ethical issues of using computer technology. 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.

3779 Accounting I

Discover the financial side of business. Examine how a business manages money, prepares financial statements, and develops skills for maintaining the flow of money for business and personal use. Learn about the stock market, banks and major corporations in America. Students planning to enter a career in business, management, or engineering and marketing should take accounting to get ahead.

3780 Accounting II

Accounting II is a continuation of Accounting I. Students will examine and prepare financial statements for a corporation, learn how stocks

and dividends are paid, and taxes are accounted for. Students will use simulations, projects, and accounting software to advance learning. Accounting II is a must for student pursuing a business degree in college.

3707 Business Management

Students in Business Management will develop a foundation in the many activities, problems, and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities. Areas to be examined include business organization, ethical and legal responsibilities, communication, decision making, personnel, safety, professional development and related careers. By gaining an understanding of these areas, students will be better prepared to enhance the business decisions of tomorrow.

Human Resources Sub-Cluster

3718 Computer Applications (903718)

3704 eBusiness Communications

eBusiness Communication is the study of oral, written, and electronic communications in a global society. Components of communication include the sender, the message, the receiver, the feedback, and the channel. The purposes of communication are to build goodwill, persuade, obtain or share information, and build self-esteem. The course will address the use of Internet developing concepts, particularly those related to Web browsers, navigators, search engines, on-line communication methods, home and Web site design concepts, transfer of data, downloading files, security procedures and Internet navigational tools. The student will choose and use appropriate tools when completing Internet applications using the Internet for research and validation of research data for written and oral business communications. Emphasis will be placed on electronic research, security issues, ethics, business report writing, business correspondence, enhancement of oral presentations with electronic media and communications applying current technology.

3746 Interactive Multimedia Presentation

The student will apply keying, typography, layout and design skills in this course. The student will be proficient in using interactive multimedia tools to develop electronic presentations. Creative design, persuasive communications, and language arts skills are applied through research, evaluation, validation, written, and oral communication. Typography, layout and design guidelines are applied. Copyright laws and ethical practices are reinforced in creating and formatting various presentations that require important data/graphics, digital, audio, and video clips. Team development will also be stressed as students work on multimedia project(s). Laboratory facilities and experiences simulate those found in business and industry.

3730 Integrated Input Technology

This is a capstone course in which students will learn necessary skills in problem solving using current and emerging integrated technology to include a variety of input technologies such as *advanced keyboarding, scanning, speech recognition, handwriting recognition, and the use of a mouse* in a production of mailable business documents. The course focuses on student choice, accountability and competency. Students work toward the attainment of high-level employable competencies in areas which may include (but are not limited to) integrated software applications, computer systems, communication systems, networking, ethical issues, human relations, leadership, self-management, and workplace management. Students may choose areas of specialization and achieve industry certification in areas such as word processing, spreadsheet applications, database design and management, multimedia presentations, schedule and contract management, etc. This course may articulate to post-secondary education.

Interactive Multimedia Sub-Cluster

3718 Computer Applications (903718)

3746 Interactive Multimedia Presentation

The student will apply keying, typography, layout and design skills in this course. The student will be proficient in using interactive multimedia tools to develop electronic presentations. Creative design, persuasive communications, and language arts skills are applied through research, evaluation, validation, written, and oral communication. Typography, layout and design guidelines are applied. Copyright laws and ethical practices are reinforced in creating and formatting various presentations that require important data/graphics, digital, audio, and video clips. Team development will also be stressed as students work on multimedia project(s). Laboratory facilities and experiences simulate those found in business and industry.

3741 Desktop Publishing

The student will apply keying, formatting, typography, and layout and design skill in developing electronic publishing documents. The student will develop skills in electronic publishing design, layout, composition, and photo journalism using Adobe in Design, Photoshop, and Illustrator software. Content provides the opportunity to acquire marketable skills and to prepare for gainful employment and or entry into postsecondary education in the graphic communications industry. Laboratory facilities and experiences simulate those found in the graphic communications industry.

3730 Integrated Input Technology

(Additional Courses)

3735 Database Design Management

The Windows programming language Visual Basic will be used to teach programming skills to students. Students will use Visual Basic to write programs. By the end of the course, students will be writing database applications (programs that track information) which operate in the Windows environment. One project will be to create the game tic-tac-toe!

3761 JAVA Programming

This course is designed to develop object-oriented programming language skills using JAVA. The student will utilize the commands, statements, and procedures of this language to write, run, debug, and edit computer programs.

3760 Web Page Design-eCommerce

The main emphasis of this course will be to maintain our school web site. Students will also study different concepts of electronic commerce. Students will build their own personal web site consisting of multiple pages.

CTE ELECTIVE COURSES—CAREER CLUSTERS—FAMILY & CONSUMER SCIENCES

IA = Instructor Approval Required
Freshman Level Courses—Bold

ARCHITECTURE & CONSTRUCTION

Interior Design

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5603 (905603)	Family & Consumer Science (FACS)	1 Elective Credit	None
5626	Interior Design	1 Elective Credit	FACS
5614	Housing	1 Elective Credit	FACS
5623	Life Connections	1 Elective Credit	FACS (Seniors Only)

EDUCATION AND TRAINING

Teaching Training Services

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5603 (905603)	Family & Consumer Science (FACS)	1 Elective Credit	None
5610	Child and Lifespan Development	1 Elective Credit	FACS
5606	Teaching as a Profession (TAP)	1 Elective Credit	FACS and GPA of 2.50
5623	Life Connections	1 Elective Credit	FACS (Seniors Only)

HUMAN SERVICES

Counseling and Mental Health Services

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5603 (905603)	Family & Consumer Science (FACS)	1 Elective Credit	None
5610	Child and Lifespan Development	1 Elective Credit	FACS
5606	Family and Parenting	1 Elective Credit	FACS
5623	Life Connections	1 Elective Credit	FACS (Seniors Only)

Family and Community Services

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5603 (905603)	Family & Consumer Science (FACS)	1 Elective Credit	None
5610	Child and Lifespan Development	1 Elective Credit	FACS
5609	Nutrition and Foods	1 Elective Credit	FACS
5623	Life Connections	1 Elective Credit	FACS (Seniors Only)

(Additional Courses)

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5613	Personal Finance (Required for Graduation)	1/2 Elective Credit	Junior

Interior Design Sub-Cluster

5603 Family & Consumer Science (905603)
 Family and Consumer Sciences (FACS) is a comprehensive, foundation course designed to assist the student in developing the core knowledge and skills needed for successful life planning and management. Content includes human development; family and parenting education; resource management; housing and living environments; nutrition and foods; textiles and apparel; leadership development; and career preparation. A unique focus is on the management of families, work, and their interrelationships. The course is the entry-level course for all Family and Consumer Science programs of study.

5626 Interior Design

Interior Design is a specialized course focusing on the interior of living environments. The course includes instruction in the fundamentals of interior design; the application of skills, knowledge, and design principles to the living environment; interior design occupations and careers; universal and "green" design; and professional and marketing skills. Instruction includes academic integration and technology applications.

5614 Housing

Housing is a specialized course designed to prepare students to understand the influences affecting housing decisions. The course includes instruction in the social/psychological aspects of housing; consumer aspects; housing trends and issues; home care and maintenance; and exploration in related housing occupations and careers. Emphasis is on using available resources effectively to meet individual housing needs. Instruction includes academic integration and technology applications.

5623 Life Connections (Seniors Only)

Life Connections is a course designed to assist students in making a successful transition from high school into the post high school environment. Students will be empowered to take action for the wellbeing of themselves and others as they effectively manage the roles and responsibilities created by family, career, and community interactions. The role of communication in establishing and maintaining healthy interpersonal relationships is emphasized. Skills related to decision making, problem solving, critical and creative thinking technology, and workplace readiness practiced in Life Connections will provide students with an understanding of how to plan for and manage careers in an ever changing workplace.

Teaching Training Services Sub-Cluster**5603 Family & Consumer Science (905603)****5610 Child and Lifespan Development**

Child and Lifespan Development prepares students to understand the physical, social, emotional and intellectual growth and development throughout the lifespan. Instructional content includes child development theories and research; prenatal development; infants and toddlers; preschool years; middle childhood; adolescence; adulthood; geriatrics; death and dying; careers; and leadership, citizenship and teamwork.

5606 Teaching as a Profession (TAP)

Teaching as a Profession is a course designed to capture the interest of secondary students as potential teachers, introduce students to teaching as a profession, and foster respect for the teaching profession. Students will gain knowledge and skills that will establish a foundation for a successful pathway to a teaching career. Content standards guide students to discover challenges, opportunities, and rewards of a teaching career. Content includes history and current issues of education; teacher roles, responsibilities, and characteristics; self-exploration and understanding; the teacher and learning processes; human growth and development; teaching career opportunities and preparation; and components of instruction. Students will learn through classroom observations and experiences, student organization activities, and the development of a professional portfolio. Students must have a minimum 2.50 GPA.

5623 Life Connections (Seniors Only)**Counseling and Mental Health Services Sub-Cluster****5603 Family & Consumer Science (905603)****5610 Child and Lifespan Development****5606 Family and Parenting**

Family and Parenting focuses on the significance of the family as a basic unit of society and the impact of parenting roles and responsibilities on the wellbeing of individuals and society. Instructional content includes family, individuals, and society; relationships; communication; multiple roles; parenting roles and responsibilities; careers; and leadership, citizenship, and teamwork.

5623 Life Connections (Seniors Only)**Family and Community Services Sub-Cluster****5603 Family & Consumer Science (905603)****5610 Child and Lifespan Development****5609 Nutrition and Foods**

Nutrition and Foods is a /specialized course designed to help students understand the nutrient value, appetite appeal, social significance and cultural aspects of food. Students will examine the role of nutrition in the prevention of health conditions, such as obesity, and the promotion of optimal body performance throughout the life span. The course offers students opportunities to develop skills in the safe and sanitary selection, preparation, storing, and serving of food; meal management to meet individual and family nutrition needs across the life span; and optimal use of food resources.

5623 Life Connections (Seniors Only)**(Additional Courses)****5613 Personal Finance**

Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending, and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions. **This course is for 1/2 credit and is required for graduation.**

CTE ELECTIVE COURSES—CAREER CLUSTERS—HEALTH SCIENCE EDUCATION

IA = Instructor Approval Required
Freshman Level Courses—Bold

HEALTH SCIENCE

Therapeutic Emergency Services

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5504 (905504)	Health Science Education	1 Elective Credit	None
5506	Medical Therapeutics	1 Elective Credit	Health Science Education
5512	Anatomy & Physiology (Health Science)	1 Elective Credit	Health Science Education
5510	Emergency Medical Services	1 Elective Credit	Health Science Education

Therapeutic Services

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5504 (905504)	Health Science Education	1 Elective Credit	None
5506	Medical Therapeutics	1 Elective Credit	Health Science Education
5512	Anatomy & Physiology (HS)	1 Elective Credit	Health Science Education
5507	Nursing Education	1 Elective Credit	Health Science Ed

Additional Courses

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5503	Rehabilitative Therapies	1 Elective Credit	Health Science Education
5505	Health Informatics	1 Elective Credit	Health Science Education
5514	Forensic Science	1 Elective Credit	Health Science Education and Biology
205506	Medical Therapeutics—Pharmacy Tech (HS) (H)	1 Elective Credit	Health Science or Medical Therapeutics
15512	Anatomy & Physiology —Medical Terminology (HS)	1 Elective Credit	Health Science

HEALTH CARE CAREER ACADEMY—Therapeutic Emergency Services Sub-Cluster

Students who exit from this academy will be better prepared to obtain articulation credit with local technical and community colleges. Completion of these courses will fulfill the Therapeutics Emergency Services sub-cluster.

5504 Health Science Education (905504)

Health Science Education is an introduction to health care occupations and basic skills. Basic CPR, first aid, vital signs, and other general skills are included in this course. This course is recommended for any student who may be interested in a health care career.

5506 Medical Therapeutics

Medical Therapeutics teaches the basic concepts of therapeutic careers, such as nursing, dentistry, psychotherapy, pharmacy, and a multitude of other allied health careers. Alternative therapies, CPR, first aid, vital signs, and other skills are also taught.

5512 Anatomy & Physiology (Health Science)

Human anatomy and physiology functions are assessed. Descriptive results of abnormal physiology will be examined and clinical consequences will be evaluated. A workable knowledge of medical terminology will be demonstrated.

5510 Emergency Medical Services

This course is designed for students who are interested in becoming an Emergency Medical Technician, Paramedic, Emergency Room nurse, or those interested in public safety, such as a police officer or fire fighter. Advanced first aid skills will be taught, including immobilization and bandaging. This class does articulate with Walters State Community College for a possible credit in their First Responder course.

HEALTH CARE CAREER ACADEMY—Therapeutic Services Sub-Cluster

Students who exit from this academy will be better prepared to obtain articulation credit with local technical and community colleges. Completion of these courses will fulfill the Therapeutics Services sub-cluster.

5504 Health Science Education (905504)

5506 Medical Therapeutics

5512 Anatomy & Physiology (Health Science)

5507 Nursing Education

This course is an introduction to nursing skills. Students are taught a variety of skills needed for an entry level job in nursing and is beneficial to all areas of health care dealing with patient care. Students will learn a variety of skills used in nursing along with medical technology.

(Additional Courses)

5503 Rehabilitative Therapies

This course consists of the study of bones, muscles, joints and nerves of the human body. Correct body alignment, principles of body movement and routine range of motion exercises are included to assist patients under the direction of a physical therapist or their assistants. Modalities such as the application of heat/cold, ambulation, and first aid are included.

5505 Health Informatics

This course examines the management of health care information, one of the fastest growing careers in health care. Topics include legal and ethical issues, insurance claims, billing, appointment

scheduling, medical terminology, and other skills necessary for the management of medical information. Computers will be utilized as part of the skills necessary for this course. This course offers preparation for students interested in working in a medical office.

5514 Forensic Science

This course is an overview of how **SCIENCE** is applied to solving crimes. Topics include the history and development of forensic science, OSHA guidelines and methods used in laboratories that solve crimes. Students will apply techniques and procedures used by forensic scientists as they participate in activities such as fingerprinting, blood typing, drug testing, and collecting and analyzing evidence from “mock” crime scenes. Actual crimes will be studied to increase understanding of how DNA links perpetrators to crime scenes. The semester will culminate with each student isolating his/her own DNA. It is recommended by the State of Tennessee that the student have at least a semester of Biology. Chemistry is recommended but not required.

205506 Medical Therapeutics —Pharmacy Tech (H)

This program is designed to help prepare the student to take the Pharmacy Technician Certification Board Exam (PTCB). The content will include: Federal Law, Medical Terminology, Drug Calculations, Top 200 Drugs, and Pharmacy Operations.

15512 Anatomy & Physiology—Medical Terminology (HS)

This course provides a method for learning medical terminology so as to better understand the terms in their appropriate relationship to the human body. This includes having an understanding of anatomy and physiology, the types of treatments used to cure various disorders, and the disease processes of the human body. Emphasis is placed on defining medical prefixes, root words, suffixes and abbreviations.

CTE ELECTIVE COURSES—CAREER CLUSTERS—MARKETING EDUCATION

IA = Instructor Approval Required
Freshman Level Courses—Bold

HOSPITALITY and TOURISM

Hospitality Management and Lodging Services

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5030	Marketing and Management I-Principles	1 Elective Credit	None
5003	Travel and Tourism Operations	1 Elective Credit	Marketing and Management I
5026	Hospitality Management	1 Elective Credit	Marketing and Management I

Recreation, Attractions, Sports and Entertainment

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5030	Marketing and Management I-Principles	1 Elective Credit	None
5003	Travel and Tourism Operations	1 Elective Credit	Marketing and Management I
5023	Sports and Entertainment Marketing	1 Elective Credit	Marketing and Management I

Additional Courses

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5038	Personal Finance (Required for Graduation)	1 Elective Credit	None
5035	Entrepreneurship	1 Elective Credit	Marketing and Management I
5098 & 15098	Cooperative Methodology—MARKET	2 Elective Credits	IA (Seniors Only)

Hospitality Management and Lodging Services Sub-Cluster

5030 Marketing and Management I—Principles

Marketing and Management Principles I is an in-depth study of how business functions. Interesting topics include developing a product and package, creating a commercial, planning an advertising campaign, and selecting price strategies. Students will also explore a variety of marketing careers and develop leadership skills through DECA. Marketing is a great preparation for students pursuing business in college. Seniors who are employed may be eligible for early dismissal from school fourth period and an additional credit.

5003 Travel and Tourism Operations

Travel and Tourism can earn you college credit. "Contact your local travel agent. . ." "For all your travel needs see. . ." Do these words sound familiar? You have probably seen them on the back of travel brochures, in the newspaper, on TV, and in magazine ads. When you think of working in the hospitality industry, you think of travel agents. But there is more. You can work as a hotel manager, a reservation agent, a cruise ship director, a caterer, a convention planner, airline personnel or a host of other tourism related careers. Seniors who are employed may be eligible for early dismissal from school during fourth period and an additional credit. This course is designed for 11th and 12th grade students only.

5026 Hospitality Management

This course is a study of the various components of the hospitality management industry. Subject matter will include technical and operational skills, and interpersonal skills.

Recreation, Attractions, Sports and Entertainment Sub-Cluster

5030 Marketing and Management I—Principles

5003 Travel and Tourism Operations

5023 Sports and Entertainment Marketing

Sports and Entertainment Marketing will focus on four areas: sports marketing, theme park design, as well as the movie and music industries. Students will start by creating a sports expansion team, which will include designing a stadium, parking, promotions, and tickets using virtual software. Students will explore the science behind theme park rides then design their own park. Students will also explore marketing tools used in the music and movie industries. This course uses multiple projects, two software programs, and hands-on material for real application. Seniors who are employed may be eligible for early dismissal from school during fourth period and an additional credit. This course is designed for 11th and 12th grade students only.

(Additional Courses)

5038 Personal Finance

Personal Finance is a course designed to inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. **This course is required for graduation.**

5035 Entrepreneurship

Entrepreneurs are the cornerstone of the American free enterprise system. Students will understand the contributions made by entrepreneurs to the economy and identify the key personal characteristics of a successful entrepreneur (business owner). In addition, students will become aware of their own business skills and abilities and learn how to develop and refine them. Seniors who are employed may be eligible for early dismissal from school during fourth period and an additional credit. This course is designed for 11th and 12th grade students only.

5098 and 15098 Cooperative Methodology—MARKET

Requires the approval of Marketing Work-Based Learning Coordinator, Mrs. Fowler. Work-Based Learning requirements include the following:

The student must have:

- A verifiable job. (Taxes must be taken out of your paycheck) No babysitting.
- Valid driver's license
- Automobile for transportation to and from work and school (**The student must drive to and from school daily**).
- Current automobile insurance.
- Current health insurance or school insurance.
- Currently enrolled in a marketing class.
- No more than 10 absences per semester.
- Passing grade in all classes.
- Passed the Gateway Exams.

CTE ELECTIVE COURSES—CAREER CLUSTERS—TRADE & INDUSTRY EDUCATION

IA = Instructor Approval Required
Freshman Level Courses—**Bold**

ARCHITECTURE & CONSTRUCTION

Construction Carpentry

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5701 (905701)	Career Management Success	1 Elective Credit	None
5730	Carpentry: Construction Core	1 Elective Credit	Career Management Success
5731	Carpentry I	2 Elective Credits	Carpentry/Construction Core and Algebra I
5732	Carpentry II	2 Elective Credits	Carpentry I, Geometry or Physical Science

GOVERNMENT & PUBLIC ADMINISTRATION or LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY

National Security or Law Enforcement Services

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5701 (905701)	Career Management Success	1 Elective Credit	None
5330	Criminal Justice I	1 Elective Credit	Career Management Success
5331	Criminal Justice II	1 Elective Credit	Criminal Justice I
5342	Criminal Justice III	1 Elective Credit	Criminal Justice II

HUMAN SERVICES

Personal Care Services

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
15701	Career Management Success-Cosmetology	1 Elective Credit	IA
5338	Principles of Cosmetology I	1 Elective Credit	CMS and IA
5339	Design Principles of Cosmetology II	2 Elective Credits	Cosmetology I and IA
5340	Chemistry of Cosmetology III	2 Elective Credits	Cosmetology I and II and IA

MANUFACTURING

Electromechanical

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5701 (905701)	Career Management Success	1 Elective Credit	None
5790	Introduction to Electromechanical	1 Elective Credit	CMS
105790	Electromechanical I	1 Elective Credit	Intro to Electromechanical
115790	Electromechanical II	1 Elective Credit	Electromechanical I

Engineering—Project Lead The Way

Foundation Courses

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
205793 (925793)	Introduction to Engineering Design (H)	1 Elective Credit	Algebra I
205791	Principles of Engineering (PE) (H)	1 Elective Credit	Intro. To Engin. Design
205792	Digital Electronics (DE) (H)	1 Elective Credit	Intro. to Engineering Design and Principles of Engineering

Engineering—Project Lead The Way (Continued)

Specialization Courses

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
205794	Computer Integrated Manufacturing (CIM) (H)	1 Elective Credit	Intro. To Engin. Design and DE and PE
205795	Civil Engineering and Architecture (CEA) (H)	1 Elective Credit	Intro. To Engin. Design and DE and PE
205796	Aerospace Engineering (AE) (H)	1 Elective Credit	Intro. To Engin. Design and DE and PE

Capstone Course

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
205798	Engineering Design and Development (H)	1 Elective Credit	Intro. To Engin. Design and DE and PE and one Specialization Course above
(Additional Course) 5789	Advanced Computer Aided Drafting	1 Elective Credit	Intro. To Engin. Design and DE and PE and CEA

TRANSPORTATION

Automotive Technology

<u>Course #</u>	<u>Course Title</u>	<u>Type of Credit</u>	<u>Prerequisite</u>
5702	Automotive: Transportation Core	1 Elective Credit	None
5712	Automotive: Brake Systems	1 Elective Credit	Automotive: Transportation Core
5710	Automotive: Suspension & Steering	1 Elective Credit	Automotive: Transportation Core
5711	Automotive: Engine Performance	1 Elective Credit	Automotive: Transportation Core

Construction Carpentry Sub-Cluster

5701 Career Management Success (95701)

In this course the student will extend his/her skills and knowledge related to residential and commercial carpentry. Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and an introduction to welding. This course provides the student with a substantial skill and knowledge foundation typically required for apprentice carpenters. This course meets for two class periods.

5730 Carpentry: Construction Core

Carpentry: Construction Core is a course that will introduce the student to basic skills and knowledge applicable to all construction trades. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems.

5731 Carpentry I

This course will introduce the student to basic skills and knowledge related to residential and commercial carpentry. Topics covered include wood, metal, and concrete materials, fasteners, hand and power tools, fabrication based on construction plans, and framing of platform and post-and-beam structures, in both wood and metal. This course provides the student with an introduction to the skill and knowledge base typically required for apprentice carpenters. This course meets for two class periods.

5732 Carpentry II

In this course the student will extend his/her skills and knowledge related to residential and commercial carpentry. Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish

work, thermal and moisture protection, and an introduction to welding. This course provides the student with a substantial skill and knowledge foundation typically required for apprentice carpenters. This course meets for two class periods.

National Security Sub-Cluster or Law Enforcement Services Sub-Cluster

5701 Career Management Success (95701)

5330 Criminal Justice I

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

5331 Criminal Justice II

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

5342 Criminal Justice III

In Criminal Justice III, students will apply knowledge gained in Criminal Justice Careers I and II through the use of research exercises. American Psychological Association (APA) research guidelines, a professional standard, will provide the format basis. The course will call upon students to engage in a variety of professionally used information-gathering techniques, including conducting interviews, making observations at courthouses, researching, formulating, and evaluating statistical data through Place-Based Learning. The individual and group activities will help students develop problem-solving and teamwork skills in conjunction with development of academic skills.* This program uses as its foundation work-place related experiences, students are expected to travel outside the classroom as part of their research-gathering activities that will provide more context, detail, and real-life activities. This course is designed for seniors in preparation for continuing education in the areas of criminal justice careers.

Personal Care Services Sub-Cluster

***Must sign up for both 15701 and 5338 at the same time**

15701 Career Management Success-Cosmetology*

Career Management Success is a core course for career clusters. The course provides students with tools for achieving success in their academic, work, and personal lives. Course content emphasizes the basic skills and knowledge needed for employment success, as identified by industry and supported by relevant national standards. All course content is presented in real-world context, providing concrete opportunities for developing personal and career goals, effective communication skills, teamwork abilities, and successful work attitudes. Upon completion of the course, students will be able to complete the *Professional Development Program Level I and Level II* of SkillsUSA or other degree programs in other career and technical youth organizations.

5338 Principles of Cosmetology I*

This entry-level course provides students with work-related skills for advancement into the Design Principles and Chemistry of Cosmetology courses. Students are given the opportunity to acquire basic fundamental skills in both theory and practical applications of leadership and interpersonal skill development. Course content stresses safety and environmental issues which are integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry.

5339 Design Principles of Cosmetology II

This second level cosmetology course prepares the student for work-related skills and advancement into technical and private schools. Students will have the opportunity to acquire foundation skills in both theory and practical application. Advanced knowledge and skill in hair design, nail care, cosmetic application, and chemical applications will be enhanced in a laboratory setting, which duplicates cosmetology industry standards. Upon completion and acquisition of 300 hours, students will be eligible to take the Tennessee State Board of Cosmetology shampoo technician exam for a Tennessee Shampoo Technician license. **Students must enroll in the Chemistry of Cosmetology-Cosmetology III course at the same time.**

5340 Chemistry of Cosmetology III

This advanced level cosmetology course prepares the student to

perform work-related services using chemicals in the cosmetology industry. Students have the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology work experiences. **Students must enroll in the Design Principles of Cosmetology-Cosmetology II course at the same time.**

Electromechanical Sub-Cluster

5701 Career Management Success (905701)

5790 Introduction to Electromechanical

Intro to Electromechanical is a course that will introduce students to basic skills and knowledge applicable to all construction trades and the basic electromechanical 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.

105790 Electromechanical I

Electromechanical I is a course in which students will learn and practice introductory skills related to operation and maintenance of electrical, instrumentation, and mechanical (electromechanical) systems found in a typical manufacturing facility. Topics covered include: shielded metal arc welding (SMAW), electrical safety and the National Electric Code, conduit, conductor splicing/terminating, protection devices, DC, AC, grinding, reading electrical sketches, Process Instrument Diagrams and elementary drawings, transformers, AC/DC motors, basic temperature/ pressure/ level instruments, basic troubleshooting, and a laboratory experience for students for all of topics. This course gives students the basic skills and foundational knowledge needed to enter a post-secondary Electromechanical Associates Degree program and prepares students for an electromechanical career within a manufacturing facility.

115790 Electromechanical II

Electromechanical II is a course in which students will learn and practice intermediate skills related to operation and maintenance of electrical, instrumentation, and mechanical (electromechanical) systems found in a typical manufacturing facility. Topics covered include basic mig (metal inert gas) welding, mechanical transmission, piping and auxiliaries, basic hydraulics, basic digital electronics, advanced troubleshooting, smart instrumentation, basic programmable logic controller operation, intro to gear, centrifugal, positive displacement pumps, and a laboratory experience for students for all of topics. This course gives students the intermediate skills and knowledge needed to enter a post-secondary Electromechanical Associates Degree program and prepares students for an electromechanical career within a manufacturing facility.

Engineering—Project Lead the Way Sub-Cluster

Foundation Courses

205793 Introduction to Engineering Design (H) (PLTW) (925793)

This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software.

205792 Digital Electronics (DE) (H) (PLTW)

This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices.

205791 Principles of Engineering (PE) (H) (PLTW)

Principles of Engineering is a course that helps the student to understand the field of engineering/engineering technology. The course explores various technology systems and manufacturing processes to help the student to learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

Specialization Courses**205794 Computer Integrated Manufacturing (CIM) (H) (PLTW)**

Students learn concepts of robotics and automated manufacturing by creating 3-D designs with modeling software. Students design and produce actual working models.

205795 Civil Engineering and Architecture (CEA) (H) (PLTW)

This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as: The Roles of Civil Engineers and Architects; Project Planning; Site Planning; Building Design; and Project Documentation and Presentation.

205796 Aerospace Engineering (AE) (H) (PLTW)

Through hands-on engineering projects developed with NASA, students learn about aerodynamics, astronautics, space-life sciences, and systems engineering (which includes the study of intelligent vehicles like the Mars rovers Spirit and Opportunity).

Capstone Course**205798 Engineering Design and Development (EDD) (H) (PLTW)**

An engineering research course in which students work in teams to research, design, and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses and are guided by a community mentor. They must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year.

5789 Advanced Computer Aided Drafting (CAD)

Advanced CAD is a course in which students will learn to use a CAD program to create engineering drawings including plan drawings, assembly drawings, welding and process drawings, cross sections, 3D representations, and bills of materials. The course consists primarily of individual drawing projects, with some group projects. Emphasis is on drawing projects of increasing complexity.

Automotive Technology Sub-Cluster**5702 Automotive: Transportation Core**

This course prepares the student for entry into all subsequent transportation courses. The student explores career opportunities and requirements of a professional service technician. Content empha-

sizes beginning transportation services skills and workplace success skills. The student studies safety, tools, equipment, shop operations and basic technician skills. Upon completing this course, the student may enter automotive service technology, diesel equipment maintenance technology, leisure craft service technology, collision repair and refinish technology, or aviation maintenance.

5712 Automotive: Brake Systems

This course offers training in the diagnosis and repair of hydraulic, mechanics, and electrical systems used in standard and anti-lock brake systems. Course contents includes diagnosis, repair, and/or service technology of hydraulic and antilock brake systems to original equipment manufacture (OEM) specifications. Educational experiences simulate automotive service industry operations through training aids, laboratory facilities, and school-based learning opportunities. Course content prepares students for the Automotive Service Excellence (ASE) Brake System test, for entry level placement in the workforce, and for entry into post-secondary education.

5710 Automotive: Suspension and Steering

This is a course that prepares students for entry-level positions or advanced training in automotive suspension and steering systems. Course material covers the principles of automotive suspension/steering systems and four-wheel suspension alignment. Course content provides the student the opportunity to acquire marketable skills by training in wheel alignment and the testing, diagnosis, and repair of steering and suspension systems. Lab facilities and experience simulate automotive service industry operations through the use of training aids and modules and school-based learning opportunities. Course content prepares students for the Automotive Service Excellence (ASE) Suspension and Steering test.

5711 Automotive: Engine Performance

Automotive: Engine Performance is a course that prepares students for entry-level positions or advanced training in engine performance. The course covers electronic ignition and distributor ignition systems, fuel management, exhaust emission control, and computer input and output signals and will identify the different types of sensors used by automotive engine computers. Students will perform inspections, tests, and measurements for diagnosis and perform needed repairs. Education and experiences simulate automotive service industry operations through the use of training aids and modules and offer school-based learning opportunities. Course content prepares students for the Automotive Service Excellence (ASE) Engine Performance test.