

# **JEFFERSON COUNTY HIGH SCHOOL**

## **DANDRIDGE, TENNESSEE**

### **2018-2019 CURRICULUM GUIDE**

The information in this curriculum guide is not inclusive of all Jefferson County School Board policies and is subject to change through administrative decision and/or school board action.

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#### **MISSION STATEMENT**

"To prepare responsible, productive citizens who are life-long learners."

#### **BELIEFS**

Honesty, integrity, and respect for others are important.  
Students must accept personal responsibility for learning.  
Problem solving and critical thinking skills are important.  
Communication skills (reading, writing, speaking, and listening) are essential.  
Students should appreciate the arts.  
Students should be prepared to function in a multi-cultural society.  
School should be a safe environment for learning.  
Parent involvement is a vital link to a student's success.

The Jefferson County School System does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities.

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## INTRODUCTION

The Curriculum Guide contains general scheduling information, graduation requirements, suggestions for course selections, and course descriptions. Upon graduation from Jefferson County High School, most students will seek further education, while some students will seek immediate employment. Students who desire to continue their education beyond high school should plan their program to include the requirements for entrance into the field of study and the institution of their choice. Those students who plan to seek employment after graduation should plan their program to include courses which will provide basic job entry skills for the field of work of their choice. It is important to note that, regardless of the students' educational and work goals and their subsequent selection of courses of study, all students who meet high school graduation requirements can qualify for some form of continuing education.

## PROGRAM PLANNING

Devising a program of study is a vital link in the planning of educational and career goals. At Jefferson County High School, it is the responsibility of the parents or guardians and student to exercise the initiative in developing the student's program. Subject teachers and counselors are available to aid the parent and student in the program planning process. The guidance roles of the concerned participants are:

**STUDENT:** Obtains planning materials and registration form from counselor; gives careful consideration to course choices (in terms of offerings available, his/her own abilities, grades, interests, school requirements and future plans); consults parents and school staff members for advice on choice of courses; delivers proposed registration form, which has been approved by parents, to counselor.

**PARENT:** Reviews planning materials and Curriculum Guide and assists student in making course choices; consults subject teachers, counselor, or principal whenever further advice is desired; approves student's program proposal by signing the proposed program sheet.

**SUBJECT TEACHER:** Advises students regarding the classes and subject area in which the teacher specializes. This includes course availability, level of difficulty, content, scope and sequence, and recommends specific courses for individual students within the subject area. Signs recommendation slips for students whenever such recommendation is required.

## THE FOUR PERIOD DAY

The majority of Jefferson County High School students follow a four period day, two semester schedule. The students take four classes each semester for a potential of eight credits per year. The "Block" schedule, as it is commonly called, gives each student the best potential for success.

## COLLEGE DAYS

On occasion a senior may have a need to visit a college or institution of higher learning during the school year on a regularly scheduled school day. Permission to do so is given on a limited, individual basis. Visits to local institutions such as Carson-Newman, UT Knoxville, and WSCC are usually denied because students as a whole are given the opportunity to visit on designated days such as college fairs. Students requesting a college day must obtain prior written permission from his/her counselor. Students must turn in documentation of the visit upon return to school. An absence resulting from a pre-approved college visit will count as a school-related absence.

## SCHEDULE CHANGES

Students and parents are advised to select courses with great care. A schedule change may be permitted under the following circumstances. The student has previously taken and passed the course. The student has failed the course, and needs to repeat it. The student does not meet the recommended prerequisite criteria. The student is a senior who needs a course to meet a graduation requirement. The student wishes to discuss changing from honors to standard level or vice-versa. The sequence is out of order. Finally, all schedule changes are subject to approval by administration.

## SCHOLARSHIPS

Any senior interested in applying for college scholarships should check with the career/post-secondary counselor for applications and deadlines. Scholarships are also posted on LCD monitors in the commons area and on the JCHS counseling website. A wealth of opportunities, assistance and resources are available to the student, but student initiative and responsibility is expected in the scholarship process. In addition, JCHS has been awarded an Advise TN Counselor that will be the counseling office to assist with any post-secondary needs.

## END OF COURSE (EOC) & TN READY EXAMS

EOC and TN Ready exams are mandated by the State of Tennessee. TN Ready & EOC exams scores are calculated in the student's final grade per School and State Board Policy. See School Board Policy for calculation procedures. The following courses have TN Ready exams: English 9, 10, 11; English 9, 10, 11 Honors; Algebra I & II; Algebra I & II Honors; Geometry; Geometry Honors; U.S. History, US History Honors; Biology I; Biology I Honors; Chemistry I; and Chemistry I Honors. Students in an AP course do not take the EOC or TN Ready test for that course, but are required to the AP exam for that course.

## JCHS GRADING SCALE

Grade point averages (GPA) will be calculated for high school course work based upon the following graduated 4-point scale with additional grade-point weighting of 0.5 for honors/college-level courses and 1.0 for Advanced Placement (A.P.) courses. The JCHS Grading Scale shall be used for report cards, class rank, honor roll, etc.

<u>Grade Range</u>	<u>Regular</u>	<u>Honors/ College-Level</u>	<u>A.P.</u>
93-100 A	4.0	4.5	5.0
85-92 B	3.0	3.5	4.0
75-84 C	2.0	2.5	3.0
70-74 D	1.0	1.5	2.0

## STATE GRADING SCALE

State law requires that students applying for HOPE scholarships and other state scholarship funds be evaluated utilizing the state's grading scale listed below. Only this scale will be sent to the state for lottery scholarship purposes. Students planning to attend college should remember that colleges will include the second semester of the senior year to calculate a student's final grade point average.

<u>Grade Range</u>	<u>HOPE Scholarship</u>
93-100	4.0
85-92	3.0
75-84	2.0
70-74	1.0

Once a student has received credit in a course, that course cannot be taken over for credit or to improve a grade. No credit can be earned through correspondence courses/schools.

## MAGNA / SUMMA CUM LAUDE

Jefferson County High School recognizes all seniors who have attained a 4.1 or higher grade point average (GPA) as members of the *SUMMA CUM LAUDE* group. This group of high honor students will choose the graduation speakers within their own members. JCHS also recognizes seniors who maintain a 3.7 to 4.0999 grade point average as *MAGNA CUM LAUDE* students. Rank and GPA will be calculated upon completion of the seventh semester, utilizing the 5.0 grading scale.

## HONOR ROLL

Scholarship is recognized and encouraged through an academic honor system. The honor system is an incentive for those whose average in each of his/her subjects is at least 85. Those students who achieve all grades of at least 85 will qualify for the "B" honor roll; those students who achieve all grades of at least 93 will qualify for the "A" honor roll.

## COLLEGE ENTRANCE EXAMS

A student may take a college entrance exam (SAT or ACT) on any national test date. Additionally, JCHS will administer the ACT on site in the spring each year to juniors. **The ACT is REQUIRED for graduation.** The ACT score may be used for: 1) scholarship selection; 2) 12<sup>th</sup> grade course selection; 3) 12<sup>th</sup> grade dual enrollment at local colleges; and 4) an opportunity to enhance score during 12<sup>th</sup> grade.

## NCAA (Athletic) Scholarship Requirements

Each college must be checked for specific requirements for degree programs or majors. Each state has different requirements for admission to its public colleges and universities. Because post-secondary education entrance requirements vary so greatly, it is important for the student to obtain specific requirements from the college of his/her choice.

- 16 Core courses are required in all divisions
  - \*NOTE: Bridge Math does not count towards eligibility requirements
- ACT-SAT Score - Satisfactory ACT or SAT score
- Satisfactory grade point average (only core courses are used in the calculation)
  - Check the web site ([www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net)) for the list of NCAA-approved core courses.

## NATIONAL HONOR SOCIETY

Candidates for membership in the National Honor Society (NHS) must be a member of the 11th or 12th grade and have attended Jefferson County High School for at least one semester. They must have taken at least two honors courses by the end of grade 10. Candidates and members must achieve and maintain a weighted GPA of 3.7 or higher. In grades 11 and 12, candidates and members must be enrolled in at least two honors or AP courses per year. Courses must be from the following areas of study: English, math, social studies, science, foreign language, or fine arts. For membership purposes, course credit will be given based upon the number of high school credits given in the course. Students in the 11th grade are invited to complete a Student Activity Information Form for the NHS. The Faculty Council may require teacher recommendations. Candidates and members may not have had any out-of-school suspensions. Members will be required to perform twenty hours of community service each semester.

The following courses are considered Advanced Placement or Honors and meet the requirement for membership in the National Honor Society:

### English

Honors English 9  
Honors English 10  
Honors English 11  
AP English 11  
AP English 12  
Honors English 12  
Honors English 12 (CNC)  
Honors English 12 (WSCC)  
Any College Level Course

### Science

Honors Biology  
Honors Chemistry I  
Honors Chemistry II  
Honors Anatomy and Physiology  
Honors Physics  
AP Biology  
AP Chemistry  
AP Environment Science  
AP Physics  
Any College Level Course

### Mathematics

Honors Algebra I  
Honors Algebra II  
Honors Geometry  
Honors Pre-Calculus  
AP Calculus  
AP Statistics  
Coding II/AP Computer Science  
Any College Level Course

### Social Studies

Honors Ancient History  
AP US Government  
Honors U.S. History  
AP Comparative Government and Politics  
AP Microeconomics  
AP Macroeconomics  
AP U.S. History  
AP European History  
AP Human Geography  
AP World History  
Any College Level Course

### Fine Arts

Honors Visual Arts I  
Honors Visual Art II  
Honors Visual Art IV  
AP Visual Arts  
AP Music Theory  
Any College Level Course

### Foreign Language

Honors German I, II, III, and IV  
AP German Language and Culture  
Any College Level Course

## GRADUATION REQUIREMENTS

To meet state and local requirements for graduation, all students shall have an approved attendance, conduct, and subject matter record which covers a planned program of education. In order to participate in the graduation ceremony, all students must meet the graduation *credit* requirements. Only students who have met all requirements may participate in graduation exercises and receive their diplomas. Any senior who fails to comply with any of the above will not be allowed to participate in the graduation ceremony. It is the responsibility of the student to see that credit requirements for graduation are met. **A student must earn a maximum of four credits fewer than the maximum credit he/she could have earned in his/her high school career. The student must also earn all state and local required credits. A student must be enrolled a minimum of eight (8) semesters to be eligible for graduation.\***

**Early Graduation:** Pending approval, it is possible for a student to graduate one semester early, finishing high school requirements in 3-1/2 years. The student must pass all classes up through seven semesters. There are other considerations concerning early graduation; students should discuss this option with their counselor.

### COURSE REQUIREMENTS FOR GRADUATION

<u>Subject</u>	<u>No. Units</u>
<b>English 9, 10, 11, 12</b>	4 Credits
<b>Math (Must take a math class each year)</b>	4 Credits
Algebra I	1
Geometry	1
Algebra II	1
Upper Level Math*****	1
<b>Science</b>	3 Credits
Biology	1
Chemistry or Physics	1
Another Lab Science	1
<b>Social Studies</b>	3.5 Credits
World History	1
U.S. History	1
Economics (or Marketing I or Entrepreneurship)	.5
Government	.5
Personal Finance ****	.5
<b>Wellness and Physical Education</b>	1.5 Credits
Wellness ****	1
*Physical Education ****	.5
<b>Fine Art and Foreign Language</b>	
**Fine Art (Band, Chorus, Visual or Theatre Arts)	1
**Foreign Language (Level I & II)	2
*** Programs of Study	3
Other Electives	4
<b>Total Credits Required</b>	<b>26</b>

## GRADUATION REQUIREMENTS

### ASSESSMENT REQUIREMENTS FOR GRADUATION

Students must complete two assessments for graduation. First, Students must take the ACT. Secondly, Students must take and pass at 70% the JCHS modified Citizenship Exam.

### ADDITIONAL INFORMATION

\* The physical education requirement may be met by substituting an equivalent time of physical activity in other areas including—but not limited to—marching band, JROTC, cheerleading and interscholastic athletics. Coach or activity sponsor must verify participation.

\*\* The fine art and foreign language requirements may be waived for students who are sure they are not going to attend a university and be replaced with three (3) courses designed to enhance and expand the program of study. If a student wishes to have this option and utilize enhancers, a waiver form must be signed by the student and parent/guardian. This waiver is available in the back of this curriculum guide and upon completion, should be returned to the student's school counselor.

\*\*\*Program of Study. All students must complete a state approved Program of Study. Programs of Study may be either Career/Technical, or Science/Math, Humanities (English/Social Studies/Foreign Language), Fine Arts (Band/Visual Arts/Theater Arts/Chorus), Advanced Placement, Dual Enrollment, Military/Exercise Science, Non-CTE Human Services, or Non-CTE Business.

\*\*\*\*JROTC substitution for this class may be an option. Please speak to your counselor to verify if this is an option for you.

\*\*\*\*\* Physics, AP Physics, or AP Computer Science fulfill the upper level math credit required for graduation for those students who have met the ACT college readiness benchmarks in mathematics.

### READY GRADUATE

The Tennessee Department of Education is partnering with local districts to ensure that all TN High School graduates are able to seamlessly move into their next steps after high school graduation. This move for students could include enrolling in college, enlisting in the military or moving into the workforce. The Ready Graduate metric looks for students who have met at least one of four of the indicators to ensure that students are fully equipped for their next step after high school.

1. ACT/SAT Indicator
  - a. A student scores 21 or higher on the ACT or the equivalent on the SAT. This reflects the eligibility criteria for Tennessee's HOPE scholarship and admission into the university system.
2. Early Post-Secondary Indicator
  - a. A student must complete the course and exam in FOUR early post-secondary opportunities including: Advanced Placement, International Baccalaureate, Dual Credit or Dual enrollment courses. This reflects the exposure to early post-secondary opportunities and preparation for scholarship and admission into the university system.
3. Industry Certification Indicator
  - a. A student must complete the course and exam in TWO early post-secondary opportunities including: Advanced Placement, International Baccalaureate, Dual Credit or Dual enrollment courses. In addition, the student must earn a recognized industry certification. This reflects the exposure to early post-secondary opportunities and preparation for scholarship and admission into the university system, and/or a seamless transition into the workforce or work-based training program.
4. Military Readiness
  - a. A student must complete the course and exam in TWO early post-secondary opportunities including: Advanced Placement, International Baccalaureate, Dual Credit or Dual enrollment courses. In addition, the student must earn a score at or above Tennessee's designated score on the military entrance exam. This reflects the exposure to early post-secondary opportunities and preparation for scholarship and admission into the university system, and/or a seamless transition into the military system.

### WORK ETHIC DIPLOMA

Jefferson County Schools is partnering with the Tennessee College of Applied Technology of Morristown and local businesses to provide students with the opportunity to earn the Work Ethic Diploma. The application and requirements are available in the counseling office and the Jefferson County High School webpage. This diploma allows students the opportunity to enter the workforce in local industry, and provides a qualified workforce for our region's economic growth.

**STATE OF TENNESSEE  
HIGH SCHOOL DIPLOMAS AND CERTIFICATES**

A regular high school diploma is awarded to a student who

- Earns required units/credits
- Has satisfactory records of attendance and conduct

**Special Education Diploma**

A special education diploma may be awarded at the end of their fourth year of high school to students with disabilities who have (1) not met the requirements for a high school diploma, (2) have satisfactorily completed an individualized education program, and (3) have satisfactory records of attendance and conduct. Students who obtain the special education diploma may continue to work towards the high school diploma through the end of the school year in which they turn twenty-two years old.

**Occupational Diploma**

An occupational diploma may be award at the end of their fourth year of high school to students with disabilities who have (1) not met the requirements for a high school diploma, (2) have satisfactory completed an individualized education program, (3) have satisfactory records of attendance and conduct, and (4) have completed the occupational diploma skills, knowledge, and Experience Mastery Assessment (SKEMA) created by the department and have completed two years of paid or non-paid work experience. The determination that an occupational diploma is the goal for a student with a disability will be made at the conclusion of the student's tenth grade year or two academic years prior to the expected graduation date. Students who obtain the occupational diploma may continue to work towards the high school diploma through the end of the school year in which they turn twenty-two years old.

**GRADUATE WITH STATE HONORS**

Students who score at or above all of the subject area readiness benchmarks on the ACT or equivalent score on the SAT will "graduate with honors." ACT's College Readiness Benchmarks are English 18; Math 22; Science 23; Reading 22.

**GRADUATE WITH STATE DISTINCTION**

Students will be recognized as graduating "With Distinction" by attaining a "B" average and completing at least one of the following:

- Earn a nationally recognized industry certification
- Participate in at least one of the Governor's Schools
- Participate in one of the state's All-State musical organizations
- Be selected as a National Merit Finalist or Semi-Finalist
- Attain a score of 31 or higher composite score on the ACT
- Attain a score of 3 or higher on at least two advanced placement exams
- Successfully complete the International Baccalaureate Diploma Program
- Earn 12 or more semester hours of transcribed post-secondary credit.

**DIPLOMA APPLICATION**

All students will be required to complete a diploma application. This application will verify appropriate diploma type. See counselors for additional information.



## **CAREER CLUSTERS AND PROGRAMS OF STUDY**

Each student must complete a Program of Study in addition to the other requirements for graduation. The Program of Study is intended to prepare and train for various career opportunities. Career Clusters are groupings of occupations or career specialties known as Programs of Study and are used as an organizing tool for curriculum design and instruction. A sequence of instruction consisting of coursework, co-curricular activities, work-site learning, service learning, and other learning experiences is preparation for a career. Many clusters include an opportunity to earn post-secondary certification, each certification is listed in bold.

### **AGRICULTURE, FOOD & NATURAL RESOURCES**

#### Veterinary and Animal Science

##### **Industry Certification: Beef Quality Assurance, Pork Quality Assurance**

1. Agri-Science (lab science credit)
2. Small Animal Science
3. Large Animal Science
4. Veterinary Science and/or WBL Internship

#### Environmental and Natural Resource Management

##### **Industry Certification: TN Hunter Education, TN Boating Safety**

1. Agri-Science (lab science credit)
2. Applied Environmental Science (lab science credit)
3. Natural Resource Management and/or AP Environmental Science

#### Horticulture Science

##### **Level 4 Industry Certification: Commercial Pesticide Certification**

1. Agri-Science (lab science credit)
2. Landscaping and Turf Science
3. Greenhouse Management
4. Introductory Plant Science – Dual Credit

#### Agricultural Engineering and Applied Technologies

1. Agri-Science (lab science credit)
2. Principles of Agriculture Mechanics
3. Agricultural Power and Equipment
4. Agricultural and Biosystems Engineering (Advanced Ag Mechanics)

### **ARCHITECTURE & CONSTRUCTION**

#### Mechanical, Electrical, & Plumbing (MEP) Systems

##### **Level 1 Industry Certification: Core Curriculum**

##### **Level 3 Industry Certification: HVAC Excellence, Heating, Electrical, Air Conditioning Technology, HVAC Excellence Employment Ready, Universal R-410A, EPA Sectional 608 Universal**

##### **Level 3 Industry Certification: Electrical Level One**

##### **Level 3 Industry Certification: Plumbing Level One**

1. Fundamentals of Construction
2. MEP Systems
3. HVAC/R
4. Construction Practicum

#### Structural Systems

##### **Level 1 Industry Certification: Core Curriculum**

##### **Level 2 Industry Certification: Carpentry Level I**

##### **Level 3 Industry Certification: Carpentry Level II**

1. Fundamentals of Construction

2. Structural Systems I
3. Structural Systems II
4. Construction Practicum

### **ARTS A/V TECHNOLOGY AND COMMUNICATIONS**

#### Digital Arts & Design

1. Digital Design Arts I
2. Digital Design Arts II
3. Digital Design Arts III
4. Digital Arts Practicum

### **BUSINESS MANAGEMENT & ADMINISTRATION**

#### Business Management

1. Introduction to Business & Marketing
2. Business Communication and/or Accounting I
3. Business Management (Dual Enroll/Credit)
4. Business & Entrepreneurship Practicum or Business Management

#### Health Services Administration

1. Introduction to Business & Marketing
2. Health Information Technologies
3. Business Management

#### Office Management

1. Computer Applications
2. Business Communications
3. Business Management or Office Management
4. Advanced Computer Applications or Office Management (Dual Enroll/Credit)

### **EDUCATION & TRAINING**

#### Teaching as a Profession

1. Fundamentals of Education
2. Teaching as a Profession I
3. Teaching as a Profession II
4. Teaching as a Profession III

### **FINANCE**

#### Accounting

1. Introduction to Business & Marketing
2. Accounting I
3. Accounting II
4. Statistics or AP Statistics of Financial Planning

#### Banking & Finance

1. Introduction to Business & Marketing
2. Accounting I
3. Banking & Finance
4. Financial Planning

## HEALTH SCIENCE

### Nursing Services

#### **Industry Certification: Certified Nursing Assistant**

1. Health Science Education
2. Medical Therapeutics
3. Anatomy & Physiology
4. Nursing Education

### Emergency Services

1. Health Science Education
2. Anatomy & Physiology
3. Medical Therapeutics
4. Emergency Medical Services

### Therapeutic Services

1. Health Science Education
2. Anatomy & Physiology
3. Nutrition Science & Diet Therapy or Medical Therapeutics
4. Clinical Internship

### Diagnostic Services

1. Health Science Education
2. Anatomy & Physiology
3. Diagnostic Medicine
4. Clinical Internship

### Sport & Human Performance

1. Health Science Education
2. Anatomy & Physiology
3. Rehabilitation Careers
4. Clinical Internship

## HUMAN SERVICES

### Human & Social Sciences

1. Introduction to Human Studies
2. Lifespan Development
3. Family Studies
4. Human Services Practicum and/or Psychology and/or Sociology

### Dietetics & Nutrition

1. Introduction to Human Studies
2. Nutrition Across the Lifespan
3. Nutrition Science & Diet Therapy
4. Human Services Practicum and/or Psychology and/or Sociology

### Cosmetology

#### **Level 4 Industry Certification: TN Board of Cosmetology & Barbering – TN Cosmetologist**

1. Cosmetology I
2. Cosmetology II
3. Cosmetology III
4. Cosmetology IV

### Web Design

#### **Level 1 Industry Certification: CompTIA IT Fundamentals**

#### **Level 3 Industry Certification: HCIW Web Design Specialist**

1. Computer Science Foundations
2. Web Design Foundations
3. Web Site Development
4. Web Design Practicum and/or AP Computer Science and/or AP Computer Science Principles

## LAW, PUBLIC SAFETY & SECURITY

### Criminal Justice & Correction Services

1. Criminal Justice I
2. Criminal Justice II
3. Criminal Justice III
4. Criminal Justice Practicum

## MARKETING

### Marketing Management

1. Introduction to Business & Marketing
2. Marketing & Management I: Principles
3. Marketing & Management II: Advanced Strategies
4. Advertising & Public Relations OR Retail Operations OR Event Planning & Management

## TRANSPORTATION, DISTRIBUTION, & LOGISTICS

### Automotive Maintenance & Light Repair

#### **Level 4 Industry Certification: ASE Student Certification Maintenance & Light Repair**

1. Maintenance & Light Repair I
2. Maintenance & Light Repair II
3. Maintenance & Light Repair III
4. Maintenance & Light Repair IV

## STEM

### Engineering by Design

1. STEM I
2. STEM II
3. STEM III
4. AP Computer Science Principles



**MILITARY/EXERCISE SCIENCE:** Complete any three (3) Credits

JROTC	CPR
JROTC Staff	Service Learning
Physical Education I	Work-Based Learning
Physical Education II	Psychology and/or Sociology
Leadership and/or Teen Leadership	Peer Counseling
Sports Training	Any Physical Education Course
Peer Tutoring	Clerical Aide-Principles of Business
Business Principles – Freshman Exp	Military Basic Training
Mathematics Intervention	English Language Arts Intervention

**NON-CTE BUSINESS:** Any 3 of the following credits:

Document Formatting (formerly Keyboarding)	Clerical Aide-Principles of Business
Word Processing (formerly Keyboarding II)	Work-Based Learning
Financial Planning	Service Learning
Desktop Publishing	Psychology and/or Sociology
Principles of Business	Leadership and/or Teen Leadership
Career Management Success	Business Principles-Freshman Exp
Contemporary Issues	Career Explorations
Mathematics Intervention	English Language Arts Intervention

**ACADEMIC INTERVENTION:** Any 3 of the following credits:

Mathematics Intervention	English Language Arts Intervention
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## NEW COURSES OFFERED FOR 2018-2019

APPLIED MATHEMATICAL CONCEPTS    WAR & AMERICAN SOCIETY    SENIOR SEMINAR  
COLLEGE AND CAREER SEMINAR    ENTREPRENEURSHIP

## DUAL ENROLLMENT OPPORTUNITY

Dual Enrollment is offered to juniors and seniors and gives them the opportunity to take college courses while still enrolled in high school. The student is required to maintain a full course load (4 classes) between the high school and the post-secondary institution. Once classes begin a student may not drop a course without prior approval from both the college and JCHS. Students may not audit a course for dual enrollment credit. Students are responsible for any tuition, fees, books, transportation, and other related costs. The Tennessee Lottery Dual Enrollment Grant provides up to \$500 for the first course, up to \$500 for the second course and up to \$200 for the third course. In order to maintain eligibility for the grant students must maintain a 2.75 college GPA. Any dual enrollment course must be pre-approved by the high school administration.

### Dual Enrollment Classes Offered on JCHS campus

(dependent upon sufficient enrollment)

MEDICAL TERMINOLOGY (043)  
(ONLINE ONLY)

1 HS Credit/3 College Credit Hrs; 11th, 12th  
Prerequisite: Health Science with minimum grade of 85; Instructor approval required.

This course will benefit anyone planning to attend college or pursue a career in the medical field. Course content will include an introductory study of Greek and Latin elements of medical terminology, utilizing the body systems approach including anatomy and physiology, laboratory/pathology terms, pharmacology concepts, terms and abbreviation. This is an online course.

WSCC Comp I (144 A)

1 HS Credit/3 College Hrs; 12th  
Prerequisite: English 11, ACT Reading 19,  
ACT English 18

A composition course 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. Fulfills English 12 credit.

WSSC COMP II (144 B)

1 HS Credit/3 College Hrs; 12th  
Prerequisite: Comp I

A composition course emphasizing documented critical writing, based on an introduction to fiction, drama, and poetry.

WSSC PROBABILITY & STATISTICS (074)

1 HS Credit/3 College Hrs.; 11th, 12th  
Prerequisite: Algebra I & II, ACT Math 19

An introduction to Probability and Statistics without calculus including descriptive statistics, probability distributions, the normal distribution, testing hypotheses, the t-test, and estimates and sample sizes. The student should check transfer institution catalogs to decide between Math 1530 and Math 2050 Probability and Statistical Applications.

WSSC ELEMENTARY SPANISH I (047)

1 HS Credit/3 College Hrs.; 11th,12th  
Prerequisite: 3.0 GPA

An elementary course in the essentials of Spanish, focusing on the fundamental four skills: listening comprehension, speaking, reading, and writing. Cultural awareness is promoted. Grammar focuses on conjugation of regular verbs, some irregular verbs (ser, estar, tener, ir, hacer). Vocabulary sets include numbers, days of the week, months, seasons, descriptive and possessive adjectives, nationalities, colors and time. The course is designed as an introduction to Spanish and may be used to fulfill high school deficiencies in the language.

WSSC ELEMENTARY SPANISH II (047 B)

1 HS Credit/3 College Hrs.; 11th,12th  
Prerequisite: Elementary Spanish I

This elementary course builds on the content of Elementary Spanish I. It emphasizes the four fundamental skills: listening comprehension, speaking, reading, and writing. Cultural awareness is promoted. Grammar focuses on stem-changing verbs, more irregular verbs (poner, salir, traer, decir, dar, saber, conocer), reflexive verbs, gustar and similar verbs, direct and indirect object pronouns, personal, comparisons and superlatives, and the preterite tense of regular verbs. Vocabulary sets include family, home and chores, food, and pastimes. The course is designed as an introduction to Spanish and may be used to fulfill high school deficiencies in the language.

WSSC Introduction to Psychology (069)

Prerequisite: High school GPA 3.0

This course is an introduction to the guiding principles and primary approaches of the study of human and animal behavior. This broad-based course includes the following topics: psychobiology, conditioning, learning, sensation, perception, motivation, emotion, intelligence, personality, life span development, abnormal behavior, social psychology, group processes, stress, and career development.

WSSC General Sociology (061)

Prerequisite: High School GPA 3.0

This course addresses major concepts and theoretical approaches of sociology with emphasis on culture, socialization, social organization, and social stratification.

## **ADVANCED PLACEMENT PROGRAM**

The Advanced Placement (AP) Program consists of college-level courses and exams for high school students. AP courses make it possible for academically talented students to upgrade the quality and increase the challenge of their studies, both in high school and college. It also enables students to receive college credit in particular subject areas upon satisfactory performance on the AP examination. AP courses are offered contingent upon student enrollment requests.

Some of the positive effects observed include:

- \*Challenges and stimulates students.
- \*Upgrades a student's high school and college program.
- \*Gives students the chance to earn college credit without leaving the high school campus.
- \*Permits students to take more advanced courses in college.
- \*Reduces educational costs for parents and saves time and money for students.
- \*Fosters leadership qualities in outstanding students.
- \*Motivates student to improve study habits.
- \*Indicates to the public that a school values intellectual achievement and academic excellence.
- \*Enables students to be more competitive in scholarship and college selection.

Students interested in AP courses are required to complete an enrollment process. Each course has specific prerequisites. AP courses require a considerable amount of time and effort from the student. All students enrolled in an AP course must take the AP examination.

Failure to take the AP Exam will result in the course recorded as an Honors class on the transcript. The exam expense must be paid when the student enrolls in the class.

AP EUROPEAN HISTORY/ AP ENGLISH 12 (519/142)

2 Credits; 12th  
Recommended Prerequisite: Honors or AP English 11

This is a year long course designed to provide a comprehensive knowledge of western civilization and its literature. The interaction between history and literature is inseparable; one does not truly understand one without the other. These classes will make demands on students equivalent to college entry level standards and will meet national College Board standards. Admission to the course will be competitive, based upon performance on ACT/SAT, 11th grade writing sample, previous advanced courses, and overall G.P.A. Students will take AP college exams for potential college credit. Students will take the AP European History, and AP English Exam.

AP STATISTICS (323)

2 Credits; 11th, 12th  
Year-Long Course  
Prerequisites: Honors track for Algebra I, II, Geometry

The purpose of the AP statistics course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students who successfully complete the course and the exam may receive college credit, advanced placement or both for a one-semester introductory college statistics course. TI-84 Plus calculators will be used in class and on homework. Students will take the AP Statistics Exam.

AP CALCULUS AB / (390)  
AP PHYSICS C: MECHANICS (288)

2 Credits; 12th, Year-Long Course  
12th, Year-Long Course  
Prerequisites: Algebra I/II, Geometry, Pre-Calculus and Physics I or Honors Physics I (or Successful completion of online courses can be used a substitution) AP

Calculus AB is a course in single-variable calculus that includes techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus. It is equivalent to at least a semester of calculus at most colleges and universities, perhaps to a year of calculus at some. Algebraic, numerical, and graphical representations are emphasized throughout the course. A graphing calculator is provided (TI-89) to be used in class and on homework, but students will also be required to solve problems without one.

AP Physics C: Mechanics will provide instruction in each of the following six content areas: kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Lab work will also be structured in during the entire coursework. Since this course is calculus based, it incorporates the concepts learned in the AP Calculus AB course.

Both will make demands on the student equivalent to college entry level and National College Board standards. Students will be required to take both the AP tests, with the intent of placing out of the first semester of college classes for both calculus and physics. To ensure success in this course, a summer preparatory assignment will be expected from each student for both math and science. Students will take both the AP Calculus Exam and the AP Physics Exam. AP Physics fulfills one math credit required for graduation for those students who have met the ACT college readiness benchmarks in mathematics.

AP VISUAL ARTS (790)

2 Credits (Year-Long Course); 11th, 12th  
Prerequisite: Visual Arts II or III or IV  
Portfolio Review Required

Visual Arts AP is designed to allow the serious art student who wishes to pursue post-secondary work in the visual arts an opportunity to prepare an exit level portfolio that meets AP standards. Activities will include refinement of work, digital imaging of work, matting, mounting and AP exam preparation. Portfolio development will follow the College Board Advanced Placement course description. Students may complete the portfolio in Drawing or 2D Design. Students will take the AP studio Exam in May. A fee for the materials will be charged.

AP MUSIC THEORY (732)

2 Credits; 10th, 11th, 12th

This is a course in harmony, beginning with basic notation and going through contemporary music in notation and practice. Emphasis is on harmonic analysis of the common practice period, and melodic and harmonic dictation. Students will take the AP Music Theory Exam.

AP COMPUTER SCIENCE PRINCIPLES (729B)

1 Credit; 11th, 12th

Prerequisite: Minimum of a 90 in Honors Algebra I, or 93 in Coding 1, or 93 in STEM 1 AND an ACT Math score of 21

AP Computer Science Principles is a course in which students will develop advanced skills in problem analysis, abstraction, construction of algorithms, and implementation of algorithms as they work on programming projects of increasing complexity. Emphasis is on actual programming projects. Course content will be repeatedly applied to increasingly complex projects. Exploration of advanced topics is a component of the AP Exam. All necessary software and hardware will be provided by the instructor. Students will be required to take the AP Computer Science Principles Exam. **AP Computer Science Principles fulfills one math credit required for graduation for those students who have met the ACT college readiness benchmark of 21 in mathematics.**

AP BIOLOGY (290)

2 Credits (Year-long course); 11th,12th

Prerequisites: Honors Biology and Chemistry

AP Biology is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Students may take the AP Biology course after the successful completion of a course in high school biology and one in high school chemistry. Primary emphasis will be on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. There will be a fee to cover the cost of materials used. Qualifying scores on the AP Biology Exam may enable the student to receive college credit for biology lab and lecture (8 hrs.).

AP ENVIRONMENTAL SCIENCE (287)

2 Credits (Year-long course); 10th, 11th,12th

Prerequisites: Biology I and Algebra I

Co-requisite: Chemistry I

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Students will participate in hands-on, laboratory and field investigations to apply scientific principles, concepts, and methodologies in order to better understand our natural systems and to critically think about environmental issues and potential solutions. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. This class is recommended to those students who are interested in environmental effect, environmental engineering, geology, biology, and chemistry. Students will take the AP Environmental Science Exam. Qualifying scores on the AP Environmental Science Exam may enable the student to receive college credit for Intro to Environmental Science class.

AP MICROECONOMICS/ (512)

2 Credits (Year-long course); 10th, 11th, 12th

AP UNITED STATES GOVERNMENT (513)

The purpose of this advanced placement course in Microeconomics is to provide a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It 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. Also included are income and price determination, economic growth, and international economics.

AP US Government is designed to provide a comprehensive introduction to the philosophy, concepts, and workings of American democracy. Attention is paid to both the institutions of government and the interaction between government and citizen. Content will often be broad and general, but case studies will be important. Previous experience in high school government is useful but not necessary. Credit will be given regardless of previous government credit. The demands made on students in this course will be equivalent to an entry-level college course (outside reading and significant writing, for example), and will meet the topic outline produced by the College Board. Students will take both the AP Microeconomics Exam and the AP US Government Exam.

AP MACROECONOMICS/ (527)

2 Credits (Year-long course); 10th, 11th, 12th

AP COMPARATIVE GOVERNMENT POLITICS (528)

The purpose of the AP Macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Particular emphasis is placed on the study of national income, price level determination, economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

The AP course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. Comparison assists both in identifying problems and in analyzing policy making. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course covers specific countries and their governments. The countries include: China, Great Britain, Iran, Mexico, Nigeria, and Russia. Students will take both the AP Macroeconomics Exam and the AP Comparative Government and Politics Exam.

AP U.S. HISTORY/ (519)

2 Credits (Year-long Course); 11th

AP ENGLISH 11 LANGUAGE (133)

AP Combined Studies is a year-long intensive study of American literature within its historical setting. The class period is divided between history, literature and language. The course will meet the requirements of both English 11 and U.S. History. The course will include a rigorous study of literature and composition and history with outside reading assignments, research, a variety of writing assignments, and projects. Students will take the AP American History and AP English Language Exam.

AP WORLD HISTORY (529SS)

2 Credits (Year-long Course); 10th, 11th, 12th

The AP World History course is designed to take students through a college-level survey of world history. The AP World History course provides a clear framework of six chronological periods viewed through the lens of related key concepts and course themes, accompanied by a set of skills that clearly defines what it means to think historically. Through these six chronological periods, the student will look at technological, industrial, regional, and global contributions to the development and organization of human societies and their culture. The course will focus on three to four key concepts per period that will define what is most essential to know about each period based upon the most current historical research in world history. This approach enables students to spend less time on factual recall, more time on learning essential concepts, and helps them develop historical thinking skills necessary to explore the broad trends and global processes involved in their study of AP World History.

AP CHEMISTRY (289)

2 Credits (Year-long Course); 11th, 12th

Prerequisites: Honors Chemistry I and Honors Algebra II

AP Chemistry is a year-long course designed to be the equivalent of a college introductory course in chemistry. This class is highly recommended for students interested in majoring in chemistry, biology, engineering, or the field of medicine. To be successful in AP Chemistry, students need a strong background in science and math. Students will take the AP Chemistry Exam. Qualifying scores on the AP Chemistry Exam may enable the student to receive college credit for general chemistry lab and lecture (8 hrs.).

AP GERMAN LANGUAGE AND CULTURE (167)

1 Credit; 10th, 11th, 12th

Prerequisites: German 3/Honors German 3 or its equivalent

Advanced Placement German is a one semester course designed for those students who wish to develop fluency in the German language. The AP exam assesses students' proficiencies in the interpersonal, interpretive, and presentational modes of communication. In this course, students will use authentic German materials and sources to develop language skills in multiple means of communication, including two-way interactions in both writing and speaking, interpretation of audio, audiovisual, and print materials, and oral and written presentation of information and ideas. Qualifying scores may enable a student to satisfy a world language requirement at many colleges and universities. This course and its prerequisites may also be of interest to those students wishing to study mathematics, science, engineering, psychology, and/or music at the university level. A fee is charged to cover the cost of materials.



AP Human Geography is a year-long intensive study intended to introduce students to the systematic study of the patterns and processes that have shaped human understanding, use and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze the human social and economic organization and their environmental consequences. They learn about and use the methods and tools used by geographers in their science and practice. Students are required to take the AP Human Geography Exam.

## **FINE ARTS DEPARTMENT**

### **PERFORMING ARTS**

**BEGINNING BAND** (700)

1 Credit; 10th, 11th, 12th

This is a course designed for the student to learn to play a band instrument. The student must provide instrument of choice. A limited selection of instruments may be provided by the school. This course will satisfy the Fine Arts graduation requirement.

**BAND** (704)

2 credits; 9th, 10th, 11th, 12th  
Prerequisite: Playing experience or permission of instructor; Summer Band Camp

Participation in band requires playing experience and ability at intermediate and/or advanced stages. During fall semester, the band is primarily a marching unit. Participation in halftime field shows, parades, and other functions is required. Second semester emphasis is on instrumentation and performance, and the study of classical and contemporary concert band literature is covered. Solo and ensemble playing is encouraged. Attending clinics is encouraged. After school rehearsals are required.

**FLAG AND RIFLE** (702)

1 Credit; 9th, 10th, 11th, 12th

Participation in either of these activities is based upon available space. Student must audition, and selection is competitive. Students should be prepared to participate prior to "tryouts" during the spring. A knowledge of music is not required, but would be helpful. After school rehearsals and sectionals are required. All performances of marching band are required.

**AP MUSIC THEORY** (732)

See Advanced Placement Section

### **DRAMA**

**THEATRE ARTS I** (716FA)

1 Credit; 10th, 11th, 12<sup>th</sup>

This is an introductory course for students interested in experiencing theatre, both on and off the stage. All projects involve class members in group or individual participation in a wide variety of activities such as theatre games, relaxation techniques, pantomimes, improvisation, scenes, extemporaneous talks, reader's theatre, discussions, and play performances. The course provides an overview of theatre stagecraft, etiquette, and history. This course will satisfy one Fine Arts credit.

**THEATRE ARTS II (DRAMA)** (717)

1-3 Credits; 10th, 11th, 12th  
Prerequisite: Minimum grade of 85 in Theatre Arts I or Theatre Arts II Repeating

This course is designed for the student who has successfully completed Theater Arts I and wishes to gain further insight into the theatre by satisfying his aesthetic, intellectual, and emotional needs as a participant and spectator. Major units covered are interpretive reading, characterization, movement, humorous and serious scenes, dialect, one-two-and-three-act plays production, costumes, makeup, and set design. Students will be exposed to a wide variety of legitimate theater experiences through guest artists and actual performances. Since performing artists are contracted each semester, the student is exposed to different units each time he/she takes the class. This course will satisfy Fine Arts credit and may be repeated.

## VOCAL MUSIC

### PATRIOT HARMONY

1-2 Credits: 9, 10, 11, 12  
No prerequisite required.

Patriot Harmony is open to all students with soprano and alto voices in grades 9-12. This class is designed to give students the opportunity to improve and develop vocal-music skills in order to advance a singer of any genre. A study of vocal fundamentals including diction, intonation, tone quality, and breath control is included. Students are expected to attend minimal after school rehearsals and performances that take place outside the confines of the school day as a portion of their final grade. No previous experience is required. This course will satisfy a Fine Arts credit. (Spring Semester Only Offering)

### MUSICAL THEATRE WORKSHOP

1 Credit: 9, 10, 11, 12

Musical Theatre Workshop is an exploration of American Musical Theatre. Students will study the work of musical theatre actors, singer, dancers and apply their gained knowledge to develop as performers. Students will prepare and present as soloists as well as members of small groups and larger ensembles for in class presentation and critique. There will also be a focus on the audition process as well as musical theatre history and repertoire. Finally, the class will participate in a culminating showcase performance or musical at the end of the semester. Students are expected to attend minimal after school rehearsals and performances that take place outside the confines of the school day as a portion of their final grade. No previous experience is required. This course will satisfy a Fine Arts Credit. (Fall Semester Only offering)

### PATRIOT ENSEMBLE

2 Credits: 9, 10, 11, 12  
Prerequisite: Audition in April.

Patriot Ensemble is open to all students with soprano, alto, tenor, and bass voices in grades 9-12 with teacher approval. This class is designed to give advanced musical students the opportunity to continue to improve and enhance vocal-music skills with the emphasis on excellence in performance. The class will focus on music interpretation, dramatic presentation, and overall musicianship to prepare the singer to be a vital part of this competitive ensemble. Students are expected to attend numerous after school rehearsals, competitions, and performances that take place outside the confines of the school day as a portion of their final grade. This course will satisfy a Fine Arts credit.

### PATRIOT CONCERT CHOIR

1-2 Credits: 9, 10, 11, 12  
No prerequisite required

The Patriot Concert Choir is open to all students with soprano, alto, tenor, and bass voices in grades 9-12. This class is designed to give students the opportunity to improve and develop vocal-music skills in order to advance a singer of any genre. A study of vocal fundamentals including diction, intonation, tone quality, and breath control is included. Students are expected to attend minimal after school rehearsals and performances that take place outside the confines of the school day as a portion of their final grade. No previous experience is required. This course will satisfy a Fine Arts credit.

## VISUAL ARTS

### VISUAL ARTS I -- BASIC STUDIO (720)

1 Credit; 10th, 11th, 12th  
Prerequisite to all other art classes

Visual Arts Basic Studio offers students an introduction to the Visual Arts providing hands-on experiences in painting, drawing, mixed media, and three-dimensional media. This course satisfies the state requirement for Fine Arts credit. **A studio fee will be charged.** Grade of 85 or better in this class is a prerequisite to all other Visual Arts Courses.

VISUAL ARTS II (722)

1 Credit; 10th, 11th, 12th

Prerequisite: Recommended grade of 85 or better in Visual Arts I; Prerequisite to Visual Arts III

Students will build on Visual Arts I foundations and work in-depth with various two and three-dimensional media. Although creativity and personal expression are always encouraged, the main focus of this course is the further development of skills in drawing, painting, and 3-D rendering. Emphasis is placed upon working from direct observation. A basic working knowledge of the visual language and critiquing skills is necessary. By building on prior knowledge and concentrating on skills, a student is able to improve personal abilities and strengthen his portfolio content, which is critical for art school scholarship competition. A combination of traditional testing methods, portfolio evaluation, and a final project will serve as the exit exam. **A studio fee will be charged.**

VISUAL ARTS III (723)

1 Credit: 10th, 11th, 12th

Prerequisite: Visual Arts I (Visual Arts II is strongly recommended) and Teacher Recommendation

Students continuing to build a portfolio for post-secondary school pursuits and students who wish to seriously pursue more advanced projects and skill levels can excel in this teacher-recommended course. Projects and expectations will be more advanced. The ability to interpret assignments creatively and work in a more self-driven environment is a must. Drawing and painting in two and three-dimensional forms will be explored. **A studio fee will be charged.**

VISUAL ARTS II – HONORS (733)

1 Credit: 10th, 11th, 12th

Prerequisite: Art I or Art I Honors;  
Prerequisite to Visual Art IV/AP

Students will build on Visual I foundations and work in-depth with various two and three-dimensional media. This class will prepare the serious Art student for upper-level Visual Art courses. Further development of skills in drawing and painting will be emphasized as students work from direct observation. Students will improve personal abilities, creativity and strengthen portfolio contents. Students will build on a prior knowledge of the visual language as critiquing skills will be included. Students will be expected to have extended reading research and writing assignments which will investigate art styles and art history. Students will be provided extensive opportunities for problem solving experiences through the integration of critical analysis and application. A combination of traditional testing method and portfolio evaluation will serve as the exit exam. **A studio fee will be charged.**

VISUAL ARTS IV – HONORS (724)  
(Pre- AP)

1-3 Credits; 10th, 11th, 12th

Prerequisites: Recommended grade of 85 or better in Visual Arts I; II or III Recommended;  
consent of Instructor to Repeat

This course offers the serious art student the opportunity to develop a personal approach to art in an individualized setting. Students will have experiences in both two and three dimensional art forms, with units in painting, drawing, ceramics, sculpture, printmaking and digital design. Each student will build a portfolio representative of works completed in the course. Students interested in post-secondary training in the visual arts are encouraged to take this class. This course may be repeated for credit. **A studio fee will be charged.**

AP VISUAL ARTS (790)

See Advanced Placement Section

**BUSINESS / INFORMATION TECHNOLOGY**

ACCOUNTING I (400A)

1 Credit; Recommended for Grades 11th, 12th

Accounting I is an essential course for students who wish to pursue careers in business and finance, or for those who wish to develop important skillsets related to financial literacy. Whether students aspire to be future business owners or work in finance with other companies, accounting skills are fundamental to success and applicable in many different fields. In this course, proficient accounting students develop skills to analyze business transactions, journalize, post, and prepare worksheets and financial statements, and apply financial analysis to business processes. Recommended for students who are choosing business as a major in college.

ACCOUNTING II (401)

1 Credit; Recommended for Grades 11th, 12<sup>th</sup>  
Required Prerequisites: Accounting I

Accounting II is an advanced study of concepts, principles, and techniques used by businesses to maintain electronic and manual financial records. This course expands on content explored in Accounting I to cover the accounting processes of a variety of different firms, including merchandising, manufacturing, and service-oriented businesses. Upon completion of this course, proficient students will gain in-depth knowledge of business accounting procedures and their applications to business operations. Upon completion of this course, students will be prepared for postsecondary study and advanced training in accounting or business.

INTRODUCTION TO BUSINESS & MARKETING (412)

1 Credit; 9th, 10th

This course is a prerequisite to course in the following programs of study: Business Management, Health Services Administration, Accounting, Banking and Finance and Marketing Management and Entrepreneurship. The course helps student prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communication, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with foundational skills to succeed in any Business, Marketing or Finance programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school.

BUSINESS & MARKETING (412)

1 Credit; 9th, 10th

This course is a prerequisite to course in the following programs of study: Business Management, Health Services Administration, Accounting, Banking and Finance and Marketing Management and Entrepreneurship. The course helps student prepare for the growing complexities of the business world by examining basic principles of business, marketing, and finance in addition to exploring key aspects of leadership, ethical and social responsibilities, and careers. Students' academic skills in communication, mathematics, and economics are reinforced with activities modeled in the context of business topics. Upon completion of this course, proficient students will be equipped with foundational skills to succeed in any Business, Marketing or Finance programs of study and will be prepared to make an informed decision regarding which pathways they would like to pursue in high school.

BUSINESS ECONOMICS (406)

1/2 Credit; 10th, 11th, 12th  
Prerequisite: Introduction to Business and Marketing

Business Economics provides an in-depth study of fundamental concepts, free enterprise trading practices, and the various players in the economic system. Topics include the production, marketing and distribution of goods and services, as well as the roles of financial institutions, the government, and the individual with the free enterprise system. International trade and economics will be an integral part of the course. Students will explore various careers related to the economy. This course may substitute for economics credit.

Human Resources Management (6186)

1 Credit: 11th, 12th

Human Resources Management focuses on preparing students for employment in the various disciplines of human resources. Proficient students will understand human relations and the impact of proper management of people as a resource in business. Upon completion of this POS, students will be prepared to seek employment or advanced training as a human resources director, training and development specialist, benefits and compensation analyst, payroll and accounting specialist, employee relations manager, talent acquisition director, or many other careers in human resources management.

Human Resources Management Practicum (6138)

1 Credit: 12th

Course Description Human Resources Management Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Human Resources courses within a simulated startup environment or authentic business setting. This course is ideal for students who wish to pursue careers as professionals in the field of human resources. Practicum activities and experiences should take under the supervision of the instructor and in collaboration with a local business partner. The standards in this course can also be used to promote student participation in a work-based learning (WBL) experience through an internship or other off-campus arrangement. Upon completion of the practicum, proficient students will be prepared to continue their study at the postsecondary level.

AMERICAN BUSINESS LEGAL SYSTEMS (407A)

1/2 Credit; 10th, 11th, 12<sup>th</sup>

Prerequisites: Introduction to Business and Marketing

The American Business Legal Systems course provides students with an understanding of the legal framework in which American business functions. The students will evaluate the influence of the free enterprise system in a democratic society on daily decisions. Students will analyze the alliance between capitalism and democracy and be better prepared to influence the future decisions in the public and private sectors of the United States. This course may substitute for government credit.

BUSINESS MANAGEMENT (404)

1 Credit; 11th, 12th

Recommended Prerequisites: Introduction to Business and Marketing

Business Management focuses on the development of the planning, organizing, leading, and controlling functions required for the production and delivery of goods and services. This applied knowledge course addresses the management role of utilizing the businesses' resources of employees, equipment, and capital to achieve an organization's goals. Students will participate in a continuing project throughout the course in which, individually or in teams, will present recommendations to improve an existing business. Local business partnerships are encouraged to provide resources for faculty and students. Proficient students will be able to complete a full review of an existing business and offer recommendations for improvement as would a management consultant. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects, Tennessee State Standards for Mathematics, as well as Tennessee Economic standards.\*

BUSINESS COMMUNICATIONS (422)

1 credit; 11th, 12th

This course combines the art of communication through the Internet and through writing skills. This is a required class for 3 Business Programs of Study. This class will be helpful to those college-bound students in preparing documents required in college. Students will explore all aspects of the Internet. Emphasis will be placed upon electronic research, security issues, ethics, business correspondence, enhancement of oral presentations with electronic media, and communications applying current technology.

FINANCIAL PLANNING (409)

1 credit; 10th, 11th, 12<sup>th</sup>

This course does NOT substitute for the required personal finance class.

Financial planning is part of the Banking and Finance program of study intended for students interested in the study of financial decision making and wealth management. In this course, students will research advanced concepts related to business areas such as advertisement, financial careers, savings, investments, and creating financial portfolios. In addition, through individual and small group projects and presentations, students will gain an understanding of the importance of teamwork and leadership.

COMPUTER APPLICATIONS (417)

1 Credit; 11th, 12<sup>th</sup>

WSSC Dual Credit Available

Students will learn Microsoft Word, Excel, PowerPoint, and Access Database. At the end of the course, qualifying students may participate in an articulation assessment to potentially earn 3 hours of college credit and to satisfy the college requirement for Computer Applications. Students will utilize problem solving, human relations, leadership, self-management, and workplace management skills. All skills learned in this class are excellent tools for future education and job requirements. (Initial exam requirements: 11th or 12th grade student; cumulative 2.0 GPA, and teacher recommendation)

PERSONAL FINANCE (420)

1/2 Credit; 11th, 12th

(Required course for graduation)

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.

## BUSINESS & ENTREPRENEURSHIP (TBD)

1-2 Credits; 12<sup>th</sup>  
PRACTICUM Prerequisites: Instructor Approval;  
Meeting all eligibility requirements; Insurance and  
Transportation Required.

Business & Entrepreneurship Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Business and Marketing courses within a simulated startup environment or authentic business setting. The course is structured to allow students the creativity to develop, launch, and market original business ideas. It is ideal for students who wish to pursue careers as future business owners or entrepreneurs. Practicum activities can take place around student-led startups under the supervision of the instructor, or in collaboration with a local business incubator. The standards in this course can also be used to promote student participation in a Work-Based Learning (WBL) experience through an internship or other off-campus arrangement. Upon completion of the practicum, proficient students will be prepared to further develop their business ideas into viable ventures, or continue their study at the postsecondary level. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects and Tennessee State Standards in Mathematics.\*

## **CAREER AND TECHNICAL EDUCATION**

The primary objective of any career-technical course is to assist the learner in acquiring the necessary skills (personal and technical) that will enable the student to (1) enter an educational training program in a post-secondary institution, (2) enter an apprenticeship training program, or (3) gain satisfactory employment. All career-technical courses offered at Jefferson County High School have clubs that are integral parts of the programs. These clubs are designed to develop student leadership characteristics, improve community-school relations, and give students an opportunity to demonstrate basic skills through competitive activities. Most of the career-technical programs are designed to be two-year programs for students in grades ten through twelve. Students must successfully complete the first year to be enrolled in the second year of training. The first year is designed to give students basic theory and training in a wide variety of activities. Second year students may select a particular component of the program for special emphasis and advanced experiences. Some of the advanced students may also be placed in the community for training and work experience under the supervision of the teacher.

**INSURANCE NOTE: STUDENTS IN ALL TRADE AND INDUSTRIAL COURSES MUST BE COVERED BY A FAMILY OR INDIVIDUAL HOSPITALIZATION PLAN. PROOF OF COVERAGE MUST BE SUBMITTED TO THE TEACHER WITHIN THE FIRST FIVE DAYS OF THE SEMESTER IN WHICH YOU ARE ENROLLED IN A CAREER/TECHNICAL COURSE. FAILURE TO PROVIDE PROOF OF INSURANCE PRIOR TO SHOP/LABORATORY ACTIVITIES WILL RESULT IN THE STUDENT NOT BEING ALLOWED TO PARTICIPATE IN THE ACTIVITIES AND HE WILL RECEIVE A GRADE OF ZERO FOR THAT PORTION OF THE CLASS. STUDENTS MUST ADHERE TO SAFETY STANDARDS DEVELOPED FOR SPECIFIC CAREER-TECHNICAL PROGRAMS.**

### **AGRICULTURE**

**ALL STUDENTS ENROLLING IN ANY CAREER/TECHNICAL AGRICULTURE CLASS WILL BELONG TO THE FUTURE FARMERS OF AMERICA. FFA LEADERSHIP SKILLS WILL BE AN INTEGRAL PART OF AGRICULTURE CLASSES.**

**\*\*\*Insurance Note:** Students in all agriculture courses must be covered by a family or individual health insurance plan. Proof of coverage must be submitted to the teacher within the first five days of the initial semester in which a student is enrolled in an agriculture class. Failure to provide proof of coverage prior to shop/laboratory activities will result in the student not being allowed to participate in the activities and he/she will receive a grade of zero for that portion of the class. All students are expected to adhere to all safety standards.

### **PRINCIPLES OF AGRISCIENCE (802)**

1 Credit; 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

Principles of Agriscience is an introductory laboratory science course that prepares students for biology, other science classes, and agriculture courses. This course is designed to introduce students to a wide variety of agricultural topics and concepts. Principles of Agriscience serves as a prerequisite to nearly all other agriculture classes. **This course counts as a lab science toward graduation and college entrance requirements. Students following the Agricultural program of study are highly encouraged to take this course as a freshman.**

### **SUPERVISED AGRICULTURAL EXPERIENCE (SAE) (798)**

1/2 Credit per year, up to 2 credits; 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>  
Instructor Approval Required

Supervised Agricultural Experience is a structured learning opportunity that takes place in a setting outside regular school hours. Students must develop and continue to improve a Supervised Agricultural Experience Project to receive credit for this course. Coursework will include goal development, project planning, recordkeeping, and career preparation. All students enrolled in this course will be expected to participate in the FFA Proficiency Award program. Students enrolled in this course must be approved by the FFA advisors.

AGRICULTURE WORK BASED LEARNING (835)

1-2 Credits; 11th, 12th  
Instructor Approval Required

Students enrolled in Agriculture Work-based learning will have the opportunity to earn up to 2 credits for working or volunteering in an area of the industry related to their agriculture program of study. Students should have employment or volunteer activities in place prior to enrolling in the course. Documentation of a minimum of 10 hours per week of employment or volunteer activity will be required to be released from school for the class the period. All students will be required to maintain a portfolio which documents the achievement of the course standards.

AGRICULTURAL BUSINESS AND FINANCE (4270)

1 Credit; 11th, 12<sup>th</sup>  
**State Dual Credit Course**  
Prerequisite: Agriscience or Principles of Agriscience

Agricultural Business and Finance addresses the economic and business principles necessary to operate a successful agribusiness. Topics covered include business, finance, economics, and management. Students will learn to apply the principles drawn from these topics toward activities that support their own business aspirations in the agriculture industry. **This course satisfies the Personal Finance graduation requirement.**

INTRODUCTION TO PLANT SCIENCE (4296)

1 Credit; 10th, 11th, 12<sup>th</sup>  
**State Dual Credit Course**

This is a statewide dual credit course. The importance and utilization of the world's leading crops are covered in this course. It is a study of basic plant structure, growth, reproduction and classification of plants economically important to agriculture. Much of the student's laboratory time will be used to study local crops, their management, production problems and marketing of these crops.

PRINCIPLES OF PLANT SCIENCE AND HYDROCULTURE (796)

1 Credit; 10th, 11th, 12th  
Prerequisite: Agriscience or Principles of Agriscience

Plant Science and Hydroculture focuses on essential knowledge and skills related to the science of plant growth. Topics covered include plant health, growth, reproduction, biotechnology, as well as fundamental principles of hydroponics and aquaponics.

GREENHOUSE MANAGEMENT (5954)

1 Credit; 10<sup>th</sup>, 11th, 12th  
Prerequisite: Agriscience or Principles of Agriscience

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

LANDSCAPING AND TURF SCIENCE (818)

1 Credit; 11th, 12th  
Prerequisite: Agriscience or Principles of Agriscience

Landscaping and Turf Science is designed to develop skills and knowledge necessary for further education and careers in landscape design, maintenance, and turf management. Topics include site analysis and planning, principles of design, and plant selection and care techniques.

PRINCIPLES OF AGRICULTURAL MECHANICS (800)

1 Credit; 10th, 11th, 12th  
Prerequisite: Agriscience or Principles of Agriscience

Agricultural Mechanics introduces students to basic skills and knowledge in construction and land management for both rural and urban environments. Topics include project management, basic engine and motor mechanics, land surveying, irrigation and drainage, agricultural structures, and basic metalworking.

AGRICULTURAL POWER AND EQUIPMENT (806AG)

1 Credit; 10th, 11th, 12th  
Prerequisite: Agriscience or Principles of Agriscience

Agriculture Power and Equipment places a special emphasis on laboratory activities involving small engines, tractors, and agricultural equipment. Topics include navigation (GIS), maintenance, repair, and overhaul of electrical motors, hydraulic systems, and fuel powered engines as well as career exploration in the agricultural mechanics field.

ADVANCED AGRICULTURE MECHANICS (811)

1 Credit; 11th, 12<sup>th</sup>  
Prerequisite: Principles of Ag. Mechanics or  
Agricultural Power and Equipment

Agricultural and Biosystems Engineering prepares students for further study or careers in engineering, environmental science, agricultural design and research, and agricultural mechanics. Topics include project planning, GIS (Geographic Information Systems), environmental impact, crop production, and pollution control planning.

APPLIED ENVIRONMENTAL SCIENCE (795)

1 Credit; 10th, 11th, 12th  
Prerequisite: Agriscience or Principles of Agriscience

Applied Environmental Science focuses on the science and management of wildlife and forestry ecosystems. Topics include environmental impacts, energy consumption, and ecosystems management. **This course satisfies one laboratory science credit.**

NATURAL RESOURCE MANAGEMENT (816)

1 Credit; 11th, 12th  
Prerequisite: Agriscience or Principles of Agriscience

Natural Resource Management is for students interested in learning more about becoming good stewards of our environment and natural resources, as an environmental scientist, conservationist, forester, or wildlife manager. Topics include natural resources and their management, public policy, role of public education in managing resources, careers, leadership, and history of the industry. Hunter education and boater education certifications may be offered in this class.

LARGE ANIMAL SCIENCE (799B)

1 Credit; 10th, 11th, 12th  
Prerequisite: Agriscience or Principles of Agriscience

Large Animal Science is for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agricultural professions. Topics include anatomy, physiology, and management of large animals including beef and dairy cattle, horses, swine, sheep, and goats.

VETERINARY SCIENCE (799)

1 Credit; 11th, 12th  
Prerequisites: Large Animal Science

Veterinary Science is an advanced course in animal science and care for students interested in learning more about becoming a veterinarian, vet tech, vet assistant, or pursuing a variety of scientific, health, or agricultural professions. Topics include principles of health and disease, basic animal care and nursing, and clinical and laboratory procedures. **This course satisfies one laboratory science credit.**

SMALL ANIMAL SCIENCE (799A)

1 Credit; 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>  
Prerequisites: Agri-Science or Principles of Agriculture

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

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

CRIMINAL JUSTICE I (584)

1 Credit, 10th, 11th

Criminal Justice I is the first level of study of criminal justice careers, 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 CardioPulmonary Resuscitation (CPR).



CRIMINAL JUSTICE II (583)

1 Credit; 11th, 12th  
Prerequisite: Criminal Justice I

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

CRIMINAL JUSTICE III (582)

1 Credit; 12th  
Prerequisites: Criminal Justice I and II  
**State Dual Credit Course**  
Teacher Recommendation Required

This course will provide students with an opportunity to explore the basic processes and principles of forensic science as it relates to criminal investigation. Students will learn the importance of the identification, collection, and processing of evidence and of its contribution to the criminal investigation. Students will learn of the legal responsibilities and challenges which the forensic investigator may encounter from initial response to the court room. At the conclusion of the course qualifying students may participate in the articulation assessment to potentially earn 3 hrs. of college credit. (**Initial exam requirements:** 11<sup>th</sup> or 12<sup>th</sup> grade student, cumulative 2.0 GPA, and teacher recommendation)

**TRADE AND INDUSTRIAL COURSES**

FUNDAMENTALS OF CONSTRUCTION (819)

1 Credit; 10th, 11th

Construction Core will introduce students to basic skills and knowledge applicable to all construction trades. Topics covered include safety, construction drawings, site layout, hand and power tools, linear and angular measurements, and application of algebraic and geometric principles to construction problems. Membership in SkillsUSA is highly recommended. **See insurance note.**

STRUCTURAL SYSTEMS I (821)

2 Credits; 10th, 11th  
Prerequisite: Fundamentals of Construction  
Algebra I (May take concurrently)

Structural Systems I is a course that will introduce students to basic skills and knowledge related to residential and commercial carpentry. Topics covered include wood/metal/concrete building materials, fasteners, hand and power tools, stairs, construction drawings, and framing of platform and post-and-beam structures in both wood and metal. This course gives students an introduction to the skill and knowledge base typically required for apprentice carpenters. Membership in SkillsUSA is highly recommended. **See insurance note.**

STRUCTURAL SYSTEMS II (822)

2 Credits; 10th, 11th, 12th  
Prerequisite: Structural Systems I

Structural Systems II is a course in which students will extend their 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 gives students a substantial skill and knowledge foundation typically required for apprentice carpenters. Membership in SkillsUSA is highly recommended. **See insurance note.**

MECHANICAL, ELECTRICAL, & PLUMBING SYSTEMS (MEPS) I (826)

2 Credits; 10th, 11th  
Prerequisite: Fund. Of Const.; Algebra I

HVAC/R I (MEPS I) is a course that will introduce students to basic skills and knowledge related to residential and commercial heating, ventilation, air conditioning and refrigeration (HVAC/R). Topics covered include tools and equipment, safety, hazards unique to HVAC/R work, physics principles, mechanical refrigeration cycle, and installation and servicing of HVAC/R systems. Course content provides students with skill and knowledge to advance to HVAC/R II. Students completing HVAC/R I will be eligible to take the Core, Type I and Type II technician certification of the EPA Proper Refrigerant Usage and Handling examination. Membership in SkillsUSA is highly recommended. **See insurance note.**

HEATING/ VENTILATION/ AIR CONDITIONING/  
REFRIGERATION (HVAC/R) (827)

2 Credits; 11th, 12th  
Prerequisite: MEPS I (Formerly HVAC/R I)

HVAC/R II (MEPS II) is a course in which students will extend their skills and knowledge related to residential and commercial heating, ventilation, air conditioning, and refrigeration. Topics covered include electricity, thermodynamics, psychometrics, diagnostic, forced air furnaces, air distribution systems, and heating/cooling load analysis. This course gives students a substantial skill and knowledge foundation typically required for apprentice HVAC/R technicians. Course content provides school-based and work-based learning opportunities for students. It prepares students for entry-level employment, advanced training in HVAC/R, and entry into post-secondary education. Membership in SkillsUSA is highly recommended. **See insurance note.**

CONSTRUCTION PRACTICUM (828CC)

1-2 Credits; 12th  
Prerequisite: Minimum of 3 credits in an Architecture & Construction program of study.  
Approval of Instructor  
Insurance & Transportation Required

Construction Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Architecture & Construction courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by tradesmen and contractors in the workplace, students learn to refine their skills in problem solving, communication, teamwork, and project management in the completion of a course-long project. Due to the importance of on-the-job training in the construction industry, a principle aim of the practicum is to assist students with pre-apprenticeship placements, where available, so they can begin to log hours on a worksite and gain experience prior to entering the job market. **See insurance note.**

**AUTOMOTIVE: MAINTENANCE & LIGHT REPAIR**

AUTOMOTIVE: MAINTENANCE & LIGHT REPAIR I (880)

1 Credit; 10th, 11th

In this course students explore career opportunities and requirements of a professional technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills. Upon completing **\*ALL** of the Maintenance and Light Repair courses, students will be prepared to sit for the ASE MLR certification exam and upon passing; enter automotive service industry as an ASE Certified MLR Technician. **See Insurance note.**

AUTOMOTIVE: MAINTENANCE & LIGHT REPAIR II (881)

1 Credit; 10th, 11th, 12th  
Prerequisite: Maintenance & Light Repair I or  
Transportation Core or Brakes, or Steering

The Maintenance and Light Repair II course prepares students for entry into Maintenance and Light Repair III. Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories. Upon completing **\*ALL** of the Maintenance and Light Repair course, students will be prepared to sit for the ASE MLR certification exam and upon passing; enter automotive service industry as an ASE Certified MLR Technician. **See insurance note.**

AUTOMOTIVE: MAINTENANCE & LIGHT REPAIR III (882)

1 Credit; 11th, 12th  
Prerequisite: Maintenance & Light Repair II or  
equivalent

The Maintenance and Light Repair III course prepares students for entry into Maintenance and Light Repair IV. Students study and service suspension and steering systems and brake systems. Upon completing all of the Maintenance and Light Repair courses, students may enter automotive service industry as an ASE Certified MLR Technician. Hours earned in the Maintenance and Light Repair courses may be used toward meeting National Automotive Technicians Education Foundation (NATEF) standards and Tennessee Department of Education standards. NATEF requires that 95% of the P-1 tasks, 80% of the P-2 tasks, and 50% of the P-3 tasks will be accomplished. These tasks are notated in these standards.

AUTOMOTIVE: MAINTENANCE & LIGHT REPAIR IV (883)

1 Credit; 11th, 12th

Prerequisite: Maintenance & Light Repair III or equivalent

The Maintenance and Light Repair IV course prepares students for entry into the automotive workforce or into post secondary training. Students study and service automotive HVAC systems, engine performance systems, automatic and manual/transmission/transaxle systems, and practice workplace soft skills. Upon completing all of the Maintenance and Light Repair courses, students may enter automotive service industry as an ASE Certified MLR Technician. Hours earned in the Maintenance and Light Repair courses may be used toward meeting National Automotive Technicians Education Foundation (NATEF) standards and Tennessee Department of Education standards. NATEF requires that 95% of the P-1 tasks, 80% of the P-2 tasks, and 50% of the P-3 tasks will be accomplished. These tasks are notated in these standards. **INSURANCE NOTE: A family or individual hospitalization plan must cover the student in all trade and industrial courses. Proof of coverage must be submitted to the teacher within five (5) days of the beginning of the semester in which he/she is enrolled. Failure to provide proof of insurance prior to shop activities will result in the student not being allowed to participate and receiving a zero grade for that portion of the class. Students must provide their own safety glasses before they are allowed to participate in shop activities. Students must adhere to safety standards developed for the shop area.**

**DESIGN COMMUNICATIONS**

The Design Communications program combines theory with practical applications to develop the technical and aesthetic skills necessary to be competitive in the graphic design and other related fields. The courses are designed to prepare student for advanced coursework at post-secondary institutions in Tennessee and prepare them to meet the challenges of high-skill, high-wage careers in this competitive field.

DIGITAL DESIGN & ARTS I (725)

1 Credit; 10th, 11th

Digital Design & Arts I is an introductory course that provides a basic foundation in aesthetic concepts and applies these concepts to the visual art, design, printing, and photography industries. Students will become familiar with the basic functions of Adobe Photoshop, Illustrator, and InDesign that relates to the Graphic Arts Industry. Students will gain proficiency in the areas of computer graphics, image manipulation, page layout, and digital printing. Knowledge and skills will be enhanced in a production laboratory through experiences that will simulate the graphic design industry. Course content provides the opportunity to acquire marketable skills by examining both the graphic arts industry and its career opportunities and by developing leadership, teamwork, and technical skills. This course may NOT be repeated. This course fulfills one fine arts credit.

DIGITAL DESIGN & ARTS II (727DC)

1 Credits; 10th, 11th, 12th

Prerequisite: Digital Design & Arts I with grade of 93 or better or Instructor Approval

Digital Design and Arts II will allow students to enhance the skills learned in Digital Design & Arts I. Students will pursue advanced techniques with Adobe Photoshop, Illustrator, and InDesign. Additional areas will be explored including 3D modeling, animation, interactive multimedia, motion graphics, and photography. Knowledge and skills will be reinforced in a production-oriented environment that simulates the graphic design industry. Students will develop professional skills that will be valuable in any work environment, along with industry practices that are specific to the graphic design field.

DIGITAL DESIGN & ARTS III (728DC)

1-3 Credits; 10th, 11th, 12th

Prerequisite: Grade of 93 or higher in Digital Design & Arts II AND Portfolio Review/Instructor Approval

Digital Design & Arts III will allow students to continue to enhance the skills learned in DDA I & II. Course content is selected to broaden the foundation of design concepts and understanding related to modern communication design. This course will foster advanced integrated skills that are essential in digital graphics, motion graphics, publishing, Web, film/video, photography, and animation graphic industries. Students will be exposed to real world design challenges in a laboratory facility through projects that simulate industry objectives. In addition to Photoshop, Illustrator, and InDesign, DDA III students will access to more advanced software and tools to independently explore more specialized areas in graphic arts. Knowledge and skills will be reinforced in a fast-paced, production-oriented environment that simulates the demands of the graphic design industry. Students will develop professional skills that will be valuable in any work environment, along with industry practices that are specific to the graphic design field. *This course may be repeated for credit. Students repeating DDA III for additional credit will be expected to complete more complex assignments than students earning their first credit. Placement in DDA III is competitive and spaces are limited. Both the quality of work and work ethic in previous Digital Arts courses will be considered when recommending students for placement in DDA III.*

The Applied Arts Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous Arts, A/V Technology, & Communications courses within a professional, working environment. In addition to developing an understanding of the safety, professional, and ethical issues encountered by professionals in these careers, students learn to refine their skills in problem solving, research, communication, teamwork, and project management through the completion of a various service projects. Upon completion of the practicum, proficient students will be prepared to pursue postsecondary study in arts, A/V technology, or communications programs; or seek additional training or employment with the aid of the portfolio, which documents the student's work completed throughout the program of study. Students will gain practical experience in motion graphics, DMX-512 lighting control, audio production, video production, and print media production. Placement in Applied Arts Practicum is strictly limited and competitive. Quality of work in previous Digital Arts courses, work ethic, and professionalism will be considered in recommending students for this course. **THIS COURSE WILL BE OFFERED AS A "LATE-BIRD" SECTION AFTER NORMAL SCHOOL HOURS.** Students may earn ½ credit with 67.5 hours of coursework or 1 credit with 135 hours of coursework throughout the school year. Students will attend a mandatory 30 hours of classroom instruction and training at the beginning of the school year. Students will remaining hours through complete of Graphic Arts and A/V Technology projects within the school. Such projects will include but are not limited to, Video Production, Theatrical Lighting Design, production of Print Media and Marketing Materials for school events, promotion of school theatrical productions, and front-of-house management.

**INSURANCE NOTE:** STUDENTS IN THE APPLIED ARTS PRACTICUM COURSE MUST BE COVERED BY A FAMILY OR INDIVIDUAL HOSPITALIZATION PLAN. PROOF OF COVERAGE MUST BE SUBMITTED TO THE TEACHER WITHIN THE FIRST FIVE DAYS OF THE SEMESTER IN WHICH YOU ARE ENROLLED IN THE COURSE. FAILURE TO PROVIDE PROOF OF INSURANCE PRIOR TO PRODUCTION ACTIVITIES WILL RESULT IN THE STUDENT NOT BEING ALLOWED TO PARTICIPATE IN THE ACTIVITIES AND WILL RESULT IN A GRADE OF ZERO FOR THAT PORTION OF THE CLASS. STUDENTS MUST ADHERE TO SPECIFIC SAFETY STANDARDS DEVELOPED FOR THIS COURSE.

### **COSMETOLOGY**

**Placement in the cosmetology program is based upon a satisfactory attendance and discipline record.**

#### **COSMETOLOGY I** (839)

1 Credit; 10<sup>th</sup>

Prerequisite: Instructor Approval

This course, which is the first level of cosmetology, prepares students with work-related skills for advancement into the Design Principles of Cosmetology course. Content provides students the opportunity to acquire basic fundamental skills in both theory and practical applications of leadership and interpersonal skill development. Content stresses safety, environmental issues, and protection of the public and designers as integrated with principles of hair design, nail structure, and cosmetic procedures. Laboratory facilities and experiences simulate those found in the cosmetology industry. Students must show proof of valid social security number for state certification hours. **See insurance note.**

#### **COSMETOLOGY II** (837)

2 Credits; 11<sup>th</sup>Prerequisite: Principles of Cosmetology  
Instructor Approval

This course, which is the second level of cosmetology, prepares students for work-related skills and advancement into the Chemistry of Cosmetology course. Content provides students the opportunity to acquire knowledge and skills in both theory and practical application. Advanced knowledge and skills in hair design, nail artistry, and cosmetic applications will be enhanced in a laboratory setting which duplicates cosmetology industry standards. (Note: Chemistry of Cosmetology should be taken after this course.) Students must show proof of valid social security number for state certification hours. **See insurance note.**

#### **COSMETOLOGY III** (838)

2 Credits; 12<sup>th</sup>

Prerequisite: Design Principles of Cosmetology

This course, which is the advanced level of cosmetology, prepares students to perform work-related services using chemicals in the cosmetology industry. Content provides students the opportunity to acquire foundation skills in both theory and practical applications. Laboratory facilities and experiences will be used to simulate cosmetology work experiences. Upon completion and acquisition of 1500 hours, students are eligible to take the Tennessee State Board of Cosmetology examination for a Tennessee Cosmetology License. **Students must show proof of valid social security number for state certification hours. See insurance note.**

## EDUCATION AND HUMAN SERVICES

### FUNDAMENTALS OF EDUCATION (643)

1 Credit; 10<sup>th</sup>, 11<sup>th</sup>

Fundamentals of Education is a foundational course in the Education and Training career cluster for students interested in learning more about becoming a school counselor, teacher, librarian, or speech-language pathologist. This course covers the history of education in the United States, careers in education, and the influence of human development on learning. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses.

### TEACHING AS A PROFESSION (TAP I) (640)

1 Credit; 10<sup>th</sup>, 11<sup>th</sup>

Prerequisite: Fundamentals of Education

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

### TEACHING AS A PROFESSION II (TAP II) (641)

1 Credit; 11<sup>th</sup>, 12<sup>th</sup>

Prerequisite: TAP I

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

### TEACHING AS A PROFESSION III (TAP III) (642)

1 Credit; 11<sup>th</sup>, 12<sup>th</sup>

Prerequisite: TAP I, TAP II

Teaching as a Profession III (TAP III) is a capstone course in the Education and Training career cluster for students interested in applying the knowledge and skills learned in previous courses toward becoming a teacher, school counselor, librarian, or speech-language pathologist. The course covers classroom professionalism, ethics, policies, communications, and career requirements in education fields. In addition, students will complete an internship and continue to create artifacts for their student portfolio. Upon completion of this course, proficient students will be prepared to pursue advanced training at a postsecondary institution.

### INTRODUCTION TO HUMAN STUDIES (629)

1 Credit; 10<sup>th</sup>, 11<sup>th</sup>

This is the first course in the Nutrition and Child Development program of studies. This hands on course was formerly known as the basic Family and Consumer Science. Introduction to Human Studies is a foundational course for students interested in becoming a Dietitian, Nutritionist, Social Worker, Public Advocate, Counselor, or Parent. This course covers nutrition, food preparation, meal planning, money management, career investigation, interviewing skills, communication skills, stress management, and many other life skills.

### LIFESPAN DEVELOPMENT (648)

1 Credit: 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

Prerequisite: Human Services

Lifespan Development builds basic knowledge in human growth and development. The course standards include developmental theory, principles of growth, behavior of children from conception through adolescence, adult development and aging, and death and dying. Students will have opportunity to participate in Baby Think It Over experiment and are use the pregnancy profile suit to simulate pregnancy.

### FAMILY STUDIES (649)

1 Credit; 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

Prerequisite: Human Services

Family Studies is an applied knowledge course that examines the diversity and evolving structure of the modern family. Course standards focus on the demographic, historical, and social changes of interpersonal relationships, as well as parenting, and the effect of stressors on the family. Students will have the opportunity to participate in the Baby Think It Over experiment and use the Pregnancy Profile suit to simulate pregnancy. This course is in the Child Development program of study.

NUTRITION ACROSS THE LIFESPAN (633)

1 Credit; 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

Prerequisite: Introduction to Human Services

Nutrition Across the Lifespan is for students interested in learning more about becoming a dietitian, nutritionist, counselor, or pursuing a variety of scientific, health, or culinary arts professions. This course covers human anatomy and physiological systems, nutrition requirements, as well as social, cultural, and other impacts on food preparation and integrity. This is a laboratory class. Students will demonstrate skills by applying nutrition principles to food preparation. This is the second course in the Nutrition program of study.

NUTRITION AND DIET THERAPY (647)

1 Credit; 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>

Prerequisite: Nutrition Across the Lifespan

Nutrition and Diet Therapy is an applied knowledge course in nutrition for students interested in the role of nutrition in health and disease. The course covers the development of a nutrition care plan as part of the overall health care process. The course covers the development of nutrition care plan as part of the overall health of diet and nutrition. Specific diseases will be researched including the role of diet as a contributor to disease and role prevention and treatment of disease. This is a laboratory class. Students will demonstrate skills by applying nutrition principles in food preparation. This is the final course in the Nutrition program of study.

**HEALTH SCIENCE & TECHNOLOGY**

HEALTH SCIENCE EDUCATION (866)

1 Credit: 10<sup>th</sup>, 11<sup>th</sup>

Health Science Education is an introductory course (Level 1) designed to prepare students to pursue careers in the fields of biotechnology research, therapeutics, health informatics, diagnostics, and support services. Upon completion of this course, a proficient student will be able to identify careers in these fields, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills. This course will serve as a strong foundation for all of the Health Science programs of study. This course is the required pre-requisite for all other Health Science Courses. HOSA membership recommended.

MEDICAL THERAPEUTICS (857)

1 Credit: 10<sup>th</sup>, 11<sup>th</sup>

Prerequisite: Health Science Education

Medical Therapeutics is a third level applied course designed to prepare students to pursue careers in therapeutic services. Upon completion of this course, a proficient student will be able to identify careers in therapeutic services; assess, monitor, evaluate, and report patient health status; and identify the purpose and components of treatments. Those interested in nursing are highly recommended to take this course. Those wanting to apply for the Clinical Internship course are required to take this course. HOSA membership recommended.

DIAGNOSTICS MEDICINE (862)

1 Credit: 11<sup>th</sup>, 12<sup>th</sup>

Prerequisite: Health Science Education

Diagnostic Medicine is a Level 3 course designed to prepare students to pursue careers in the fields of radiology, medical laboratory, optometry, and other patient diagnostic procedures. Upon completion of this course, proficient students will be able to describe new and evolving diagnostic technologies, compare and contrast the features of healthcare systems, explain the legal and ethical ramifications of the healthcare setting, and begin to perform foundational healthcare skills. HOSA membership recommended.

CLINICAL INTERNSHIP (863)

1 Credit: 12<sup>th</sup>

Prerequisite: Health Science Education

CPR Certification (AHA or ARC);

One of the following Courses:

Diagnostic Medicine

Emergency Medical Service

Rehabilitation Careers

Nutrition Science & Diet Therapy

Medical Therapeutics;

**Health Insurance Required**

Clinical Internship is a capstone course (Level 4) and work-based learning experience designed to provide students with real-world application of skills and knowledge obtained in a pre-requisite Health Science course. This course is designed to prepare students to take the certification test to become a Clinical Medical Assistant. The Medical Therapeutics course is a prerequisite because it is designed to be the classwork portion of the certification process. **\*\*CONTINUED NEXT PAGE\*\***

Prior to beginning work at the clinical sites, students must be certified in BLS CPR and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines, confidentiality, and pass OSHA safety exam as well as Jefferson Memorial Hospital orientation. Mandated 90% attendance minimum to pass this course. (10 Student Limit due to capacity of clinical sites.) In order to qualify the student must:

1. Complete Health Science Education and Pre-Requisite course with a grade B or better
2. Have no more than 8 absences or 2 tardies in any health science courses.
3. History of professionalism as shown through health class performances.
4. Able to pass a required background and criminal history check if requested by clinical facility.
5. Must obtain BLS CPR certification prior to start of class.
6. Attendance and Discipline records will be reviewed prior to admittance.
7. Transportation to and from clinical site and school is the responsibility of the parents and student. Student are **NOT** allowed to ride share to or from clinical site.
8. Those having taken and passed either Medical Terminology will be reviewed ahead of others. Same for students having multiple pre-requisite course.
9. Students must apply for the course in February of their Junior year to be considered for course acceptance.
10. Recommendation letter from 3 teachers is required as part of the application process.
11. Interviews will be scheduled with each qualifying applicant.

Upon acceptance to this course the student must be able to purchase required uniform/scrubs. Students must be able to obtain appropriate facility-required vaccinations including but not limited to flu, TB 2-Step skin test, and Hep B. According to TN work-based learning standards, students must maintain an attendance rate of 90% or better in order to successfully complete this course. Membership in HOSA is HIGHLY recommended and past membership will be considered in application process. At the successful completion of this Internship each student will have the opportunity to take a certification test to become a Clinical Medical Assistant.

EMERGENCY MEDICAL SERVICES (851)

1 Credit; 11th, 12th  
Prerequisite: Health Science Education; CPR Certification (AHA or ARC); **Insurance Required**

Emergency Medical Services is a Level 3 course designed to prepare students to pursue careers in the fields of emergency medicine. Upon completion of this course, proficient students will be able to: identify careers and features of the EMS system; define the importance of workforce safety and wellness; maintain legal and ethical guidelines; correlate anatomy and physiology concepts to the patient with a medical or traumatic injury; and perform EMS skills with a high level of proficiency. At the conclusion of this course qualifying students may participate in the articulation assessment to potentially earn 3 hrs. of college credit. (Exam Requirements: Cumulative 2.5 GPA, Teacher recommendation, 11th and 12<sup>th</sup> grade student) HOSA membership recommended.

EMERGENCY PREPAREDNESS (852)

1 Credit; 10th, 11th

Emergency Preparedness provides an overview of the involvement of public safety professionals and healthcare professionals in the response to various natural and unnatural emergencies. Upon completion of this course, a proficient student will be able to identify the magnitude of a natural or unnatural disaster and its effects on the many facets of communities. This course equips students with the skills and knowledge surrounding a Community Emergency Response Team (CERT) and teaches them how to apply those skills in a mock disaster scenario. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts and Literacy in Technical Subjects. **Offered alternate years with Rehabilitative Careers.**

## REHABILITATIVE CAREERS (864)

1 Credit; 10th, 11th, 12<sup>th</sup>  
Prerequisite: Health Science Education

Rehabilitation Careers is a Level 3 applied course designed to prepare students to pursue careers in rehabilitation services. Upon completion of this course, a proficient student will be able to identify careers in rehabilitation services, recognize diseases, disorders or injuries related to rehabilitation services and correlate the related anatomy and physiology then develop a plan of treatment with appropriate modalities. **Offered alternate years with Emergency Preparedness.**

## NURSING EDUCATION

1 Credit; 12<sup>th</sup>;  
Prerequisite: Health Science Education;  
Medical Therapeutics;  
CPR Certification (AHA or ARC);  
**Health Insurance Required**

Nursing Education is a capstone course (Level 4) and work-based learning experience designed to prepare students to pursue careers in the field of nursing. Upon completion of this course, a proficient student will be able to implement communication and interpersonal skills, maintain residents' rights and independence, provide care safely, prevent emergency situations, prevent infection through infection control, and perform the skills required of a nursing assistant. Prior to beginning work at the clinical sites, students must be certified in BLS CPR and deemed competent in basic first aid, body mechanics, Standard Precaution guidelines, confidentiality. At the conclusion of this course, if all standards are met including 40 hours of site-based clinical time, 20 hours of clinical instruction, and 40 hours of classroom instruction then students **may be eligible to take the Certified Nursing Assistant (CNA) exam.** (10 student limit due to clinical site capacity.)

In order to qualify the student must:

1. Complete Health Science Education and Medical Therapeutics with a grade B or better
2. Have no more than 8 absences or 2 tardies in any health science courses.
3. History of professionalism as shown through health class performances.
4. Able to pass a required background and criminal history check if requested by clinical facility.
5. Must obtain BLS CPR certification **prior** to start of class.
6. Attendance and Discipline records will be reviewed prior to admittance.
7. Transportation to and from clinical site and school is the responsibility of the parents and student. Student are NOT allowed to ride share to or from clinical site.
8. Those having taken and passed either Medical Terminology or Anatomy & Physiology will be reviewed ahead of others.
9. Students must apply for the course in February of their Junior year to be considered for course acceptance. Interviews will be scheduled with each qualifying applicant.

Upon acceptance to this course the student must be able to purchase required uniform/scrubs. Students must be able to obtain appropriate facility-required vaccinations including but not limited to flu, TB 2-Step skin test, and Hep B. According to TN work-based learning standards, strict attendance guidelines are enforced in order to complete this course. Membership in HOSA is HIGHLY recommended and past membership will be considered in application process.

## MARKETING

### MARKETING EDUCATION I (840)

1 Credit; 10th, 11th, 12th  
Prerequisite: Completing an interest survey

Marketing Education I is a vocational course of study designed to prepare students for the world of work, particularly in the areas of marketing and management. Recent studies indicate that one out of every three people will earn their livelihood in these fields. The classroom activities will include introductory training in the areas of advertising, communications, human relations, mathematics, selling, and cash handling. Extensive work will be done in career exploration and acquiring job search skills. A portion of the overall marketing grade will be achieved by work in the Marketing Education Learning Laboratory, commonly referred to as the Patriot Post school store. Membership in DECA, an association of marketing students, is required. This course can be substituted for the economics credit required for graduation.



MARKETING EDUCATION II (842)

1 Credit; 11th, 12th  
Prerequisite: Marketing Education I

Marketing Education II is a career/technical course of study for students who wish to prepare for and further their knowledge in the areas of marketing and management. Studies indicate that as many as a third of the American population work in these areas, and Marketing II is designed to prepare students for leadership roles in these fields. The course will include advanced training in the areas of display, human relations, merchandising, operations and management, inventory management, and selling. A portion of the overall Marketing II grade will be earned by working the Marketing Education Learning Laboratory, commonly referred to as the Patriot Post or the school store. Membership in DECA, an association of marketing students, is required.

MARKETING COOPERATIVE EDUCATION (843)

1 Credit; 12th  
Prerequisites: Instructor Approval; Marketing I; Enrollment in Marketing II or Advertising and Public Relations; Insurance and Transportation Required

The Marketing Cooperative Education program is designed to provide students with the opportunity to integrate the marketing curriculum with on-the-job training. Marketing Cooperative Education is not a "stand alone" program; it is a function of a marketing course. Because of this fact, students are strongly encouraged to consider the marketing course they wish to take *first*, because at least 75% of their grade for the co-op will be based upon classroom performance. The co-op program is designed to achieve two goals: 1) to give students credit for their work in a job, and 2) to give students the opportunity to put into practice what they learn in a marketing course. Co-op programs will be established once school begins. If a student has sufficient credits, he/she may be allowed to leave school early in order to work at their cooperative education placement. However, they must report to work before the end of the regular school day. Additional policies, rules, and guidelines will be explained by the instructor before the student begins the experience. Grading is based upon classroom experience and work performance. Students may earn one additional credit in the course based upon the average number of hours worked. Membership in DECA, an association of marketing students, is required.

ENTREPRENEURSHIP (5934)

1 Credit; 11th, 12th  
Prerequisite: Marketing Education I

Entrepreneurship is an applied knowledge course that begins with the discovery process of generating new business ideas. Students research local, national, and international social and economic trends and analyze the feasibility of their own proposed businesses, both from a market demand and revenue-producing standpoint. Based on their entrepreneurial endeavors, students will prepare, write, and revise a business plan. In preparation for the business plan, students will conduct market research, study ownership structures, evaluate risks, examine startup costs, determine essential vendors, and identify sources of capital and financing options. Students will also draft, refine, and rehearse entrepreneurship pitches developed from their business plans to present during course intervals and to give final presentations at the conclusion of the course. Upon conclusion of this course, proficient students will be able to articulate, and defend, elements of a full business plan for a new business.

**STEM: Science, Technology, Engineering & Mathematics**

STEM I: Foundation (6144) (Formerly Foundations of Technology)

1 Credit; 10th, 11th

This course is a foundational course in the STEM cluster for students interested in learning more about careers in science, technology, engineering, and mathematics. This course covers basic skills required for STEM fields of study. Upon completion of this course, proficient students are able to identify and explain the steps in both the engineering design and the scientific inquiry processes. They conduct research to develop meaningful questions, define simple problem scenarios and scientific investigations, develop fundamental design solutions, conduct basic mathematical modeling and data analysis, and effectively communicate solutions and scientific explanation to others.

STEM II: Applications (6145) (Formerly Technological Design)

1 Credit; 10th, 11th

Prerequisites: STEM I: Foundation (6144); Algebra I (0842, 3102); and Physical Science (3202) or Biology (3210)

This course is a project-based learning experience for students who wish to further explore the dynamic range of STEM fields introduced in STEM I: Foundation. Building on the content and critical thinking frameworks of STEM I, this course asks students to apply the scientific inquiry and engineering design processes to a course-long project selected by the instructor with the help of student input. Instructors design a project in one of two broad pathways (traditional sciences or engineering) that reflects the interest of the class as a whole; the students then apply the steps of the scientific inquiry or the engineering design process throughout the course to ask questions, test hypotheses, model solutions, and communicate results. In some cases, instructors may be able to design hybrid projects that employ elements of both the scientific inquiry and the engineering design process. Upon completion of this course, proficient students will have a thorough understanding of how scientists and engineers research problems and methodically apply STEM knowledge and skills; and they will be able to present and defend a scientific explanation and/or an engineering design solution to comprehensive STEM-related scenarios.

STEM III: STEM in Context (6146) (Formerly Advanced Design Applications)

1 Credit; 11th, 12th

Prerequisites: STEM II: Applications (6145) and Biology (3210) or Chemistry (3221)

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

STEM IV: STEM practicum (6147) (Formerly Engineering Design)

1 Credit; 11th, 12th

Prerequisites: STEM III: STEM in Context (6146)

STEM IV: STEM Practicum is a capstone course intended to provide students with the opportunity to apply the skills and knowledge learned in previous STEM Education courses within a professional, working environment. In addition to developing an understanding of the professional and ethical issues encountered by STEM professionals in the workplace, students learn to refine their skills in problem solving, research, communication, data analysis, teamwork, and project management. The course is highly customizable to meet local system needs: instruction may be delivered through school laboratory training or through work-based learning arrangements such as internships, cooperative education, service learning, mentoring, and job shadowing. Upon completion of this course, proficient students will be prepared for postsecondary study in a STEM field. In this course the student can attain an industry certification as a Certified Solid Works Associate (CSWA)

## **ENGLISH / LANGUAGE ARTS**

ENGLISH LANGAUGE ARTS INTERVENTION (3017)

1 Credit

The English Language Arts Intervention course is not a substitute for the grade level English course. This course will be supplemental to the required English coursework. This course is designed as the Response to Intervention Tier 2 and Tier 3 intervention programming. The course will include basic reading skills, reading comprehension, reading fluency, and written expression. The course will also include study skills and career planning.

ENGLISH 10 (120)

1 Credit

This course is designed to enhance the basic foundation of grammar, composition, and literature attained in English 9. The curriculum is designed for students to have exposure to diverse authors, literary works, and time periods in preparation for English 11. This course is aligned with TN Ready standards. This is a TN Ready course. The TN Ready exam score will be calculated into the grade per board policy.

ENGLISH 10 HONORS (124)

1 Credit

Prerequisite: Recommended grade of 90 or above in previous English course

This course is designed for the student who has successfully completed English 9 Honors or who has done superior work in English 9. Placement in this course is based upon ninth grade English teacher recommendation. The course will include an intensive study of literature and composition with outside reading assignments, research, a variety of writing assignments, and projects in order to adhere to the state framework of standards for honors courses. This is a TN Ready course. The TN Ready exam score will be calculated into the grade per board policy.

ENGLISH 11 (135)

1 Credit; 11th

This course is a semester long study of American literature within its historical setting. This course is designed to build grammar and composition skills as well as provide a study of American literature. This is a TN Ready course. The TN Ready exam score will be calculated into the grade per board policy.

HONORS ENGLISH 11 (133)

1 Credits; 11<sup>th</sup>

Prerequisite: Recommended grade of 90 or above in previous English course

This course is a semester long intensive study of American literature within its historical setting. The course will include a rigorous study of literature and composition. These will include outside reading assignments, research, a variety of writing assignments, and projects. Honors English 11 is a TN Ready course. The TN Ready exam score will be calculated into the grade per board policy.

ENGLISH 12 (140)

1 Credit

This course is a study of British and Western literature within its historical setting. This course will include a variety of literature, composition, and history with outside reading assignments, research, a variety of writing assignments, and projects. The design of the course is for students to be performing at the college level upon completion of the course.

HONORS ENGLISH 12 (146)

1 Credit

Prerequisite: Recommended grade of 90 or above in previous English course

This course is an intensive study of British and Western Literature within its historical setting designed for the advanced student. The course will include a rigorous study of literature, composition, and history with outside reading assignments, research, a variety of writing assignments, and projects. The design of the course is for students to be performing at the college level prior to the completion of the course. It is recommended that students have prior Honors level course experience.

AP ENGLISH 12 (142)

See Advanced Placement Section

COMPOSITION I (WSCC/CN) (144 A)

See Dual Enrollment Section

COMPOSITION II (WSCC/CN) (144 B)

See Dual Enrollment Section

YEARBOOK-JOURNALISM "SPIRIT OF" (192)

1-4 Credits; 10<sup>th</sup>, 11th, 12th  
Prerequisite: Students are selected by application to advisor only.

Students plan and produce the school yearbook. Students should have an 90 or higher average in their English class, above average writing and communication skills, and basic computer skills. Those with experience in photography and PhotoShop are needed. Students will be required to attend after school workshops and/or work sessions.

POETRY: PERSPECTIVES (193)

1 Credit; 10th, 11th, 12th  
Prerequisite: Recommended grade of 75 or above most recent English class

This course covers poetry from Renaissance to modern verse. Students will consider historical, cultural, and literary aspects. Students will have many opportunities to write creatively, mimicking authors' styles as well as personal writing. Students will study in-depth certain authors who are not emphasized in a regular English class. Basic knowledge of essay writing is required. Students are required to create a comprehensive portfolio.

CREATIVE WRITING (143)

1 Credit; 10th, 11th, 12th

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

## **EXCEPTIONAL CHILDREN SERVICES**

As a student is identified by meeting the eligibility standards for special education services, an interdisciplinary team develops, composes, and implements an individual education plan (I.E.P.). This plan is for one academic year and is updated annually. Educational, vocational, and behavioral goals and objectives are addressed. Efforts are made to include the student in regular education courses and school activities with the support of consultative services from the department of exceptional children services. Daily living and transitional skills needed to function with success in the community and workplace are a part of the program.

Course descriptions offered are as follows:

LIFE SKILLS ENGLISH (924)

1-2 Credits; 9th, 10th, 11th, 12th

This course is for students identified by the I.E.P. team who need individualized instruction to prepare for everyday living skills pertaining to English. Emphasis is given to basic grammar, reading, and writing skills. The student may earn one credit each semester.

LIFE SKILLS MATH (926)

1-2 Credits; 9th, 10th, 11th, 12th

This course is for students identified by the I.E.P. team who need individualized instruction to prepare for everyday living skills pertaining to math. Emphasis is given to basic mathematics and daily living skills associated with math. The student may earn one credit each semester.

ENGLISH (929 A-D)

1-2 Credits; 9th, 10th, 11th, 12th  
Prerequisite: Life Skills English

This course is for students identified by the I.E.P. team who need specialized instruction. Emphasis is given to specific grammar, reading, and writing skills. Instruction is given at differing and individualized learning levels and needs. Basic reading and writing skills are a prerequisite for this course. The student may earn one credit each semester.

ALGEBRA IA (928A)

1 Credit; 9th

Algebra IA is year-long course, the first of a two-part course in the Algebra I sequence, focusing primarily on mathematical problem-solving using linear expressions, equations, and inequalities. Completion of Algebra IA will prepare students for continuing in the mathematics curriculum to Algebra IB as well as for the Algebra I EOC.

ALGEBRA IB (928B)

1 Credit; 10th  
Prerequisite: Algebra IA

Algebra IB is a semester course, the second part of the Algebra I sequence and builds on the concepts taught in Algebra IA. This course assists students in the transition to the abstract concepts of Algebra by providing sequential development of concepts and skills from the arithmetic to the symbolic by using concrete materials. Students will be helped to make connections incorporating various math applications. This is a TN Ready course. TN Ready exam scores are 25% of the second semester grade.

Geometry IA (947)

1 credit: 10th, 11th

Geometry IA is a semester long course, the first of a two-part course in the Geometry I sequence, focusing primarily on mathematical problem-solving using basic elements of plane and solid geometry, coordinate geometry and formal proofs.

Geometry IB (948)

1 credit: 11th, 12th  
Prerequisite: Geometry IA

Geometry IB is a semester long course, the second of a two-part course in the Geometry I sequence, focusing primarily on mathematical problem-solving using basic elements of plane and solid geometry, coordinate geometry and formal proofs. This is a Tn-Ready course.

LIFE SKILLS/LEAST RESTRICTIVE ENVIRONMENT FOR LIFE PROGRAM (LRE) (920)

1-4 Credits; 9th, 10th, 11th, 12th

This course is offered to students identified by the I.E.P. team who need specialized teaching and practical training in daily living skills. Emphasis is given to skills training in household chores, basic cooking, basic math, writing, and reading for daily living.

Based upon individual assessment, some eligible students may benefit more from the LRE program. The primary goals of the LRE program are to prepare the student for independent living, work, and recreation within their homes and community. This program is based upon the I.E.P. developed by the IEP team. The intent of this program is to have the student complete their I.E.P., which may or may not include credits earned in regular classes.

WORK BASED LEARNING (932)

2-4 Credits; 11th, 12th

This course is offered to students identified by the I.E.P. team who need specialized, practical, and on-the-job training for future vocational pursuits.

## WORLD LANGUAGES

SUGGESTIONS FOR FOREIGN LANGUAGE STUDENTS

1. Foreign language is an interesting and essential part of a complete education. Every student is encouraged to explore its possibilities for use in travel, in understanding and comparing different cultures, and in complying with requirements for most job fields.
2. Successful completion of **two semesters** of **ONE** foreign language is required for admission to four-year colleges/universities and the State Board of Regents Universities in Tennessee. Other states/colleges may have further requirements. It is the student's responsibility to investigate requirements prior to his/her senior year.
3. Since most four-year universities require placement exams upon entering, students should consider completing a level three or higher course. Failure to test into a second- year language course at the university level often results in remedial coursework until the deficiency is corrected. Upper level courses prepare students for scholarships, entrance to competitive colleges, and language placement exams.
4. For continued success in learning a language, students should complete the series of language courses without interruption. The world language department strongly advises students not to wait until the senior year to begin their sequence of language courses.
5. For a successful completion of any world language, the following guidelines are recommended:
  - 1) An overall average grade of 80 or better in English courses
  - 2) Attendance is imperative and it is vital that a student be mentally engaged when present.

### FRENCH

FRENCH I (150)

1 Credit; 10th, 11th, 12th

A variety of techniques are used to develop a basic understanding of the French language and culture. Emphasis is placed on listening, speaking, reading, and writing. Students are introduced to the cultures of French-speaking countries through classroom experiences, such as the study of French food, singing of songs, and viewing French films. Many other supplementary materials are used. A fee will be charged to cover the cost of materials.

FRENCH II (152)

1 Credit; 10th, 11th, 12th  
Prerequisite: French I

A continuation of French I, the course offers a thorough analysis of French grammar and practice in French phonetics. Stress is placed upon the five cornerstones of language learning--listening, speaking, writing, reading and culture. Students are exposed to the cultural and geographic variety of the French-speaking world. A fee is charged to cover the cost of materials.

FRENCH III (154)

1 Credit; 10th, 11th, 12th  
Prerequisite: French II

For students who are motivated to continue their language learning, this course is highly recommended for college-bound students. It reinforces prior learning as well as develops fluency through further education of the subject. It continues to emphasize those areas which will aid the college-bound student in placement testing. Students are exposed to key events and historical figures from Francophone countries, various French holidays, and key literary masterpieces in part or in whole. Students are expected to use the French language. A fee is charged to cover the cost of materials. Class must have a minimum of 15 students to be offered. **Sufficient student interest and instructional resources is necessary to offer this course.**

FRENCH IV (155)

1 Credit; 10th, 11th, 12th  
Prerequisite: French III

For students, who are highly motivated to continue their language learning, this culminating course continues to develop fluency and skill in the areas of reading, writing, listening and speaking. Literature, current events and authentic materials will be analyzed and discussed. Students are expected to use French. This course may be taught during another class period and will require some independent learning. A fee is charged to cover the cost of materials. **Sufficient student interest and instructional resources is necessary to offer this course.**

**GERMAN**

GERMAN I (160)

1 Credit; 10th, 11th, 12th

This course introduces students to the German-speaking world, its people and its culture and customs. Through various techniques and activities, students are exposed to the five aspects of language learning--speaking, reading, listening comprehension, writing, and culture. Students will explore the role of German and Germany today, especially its importance in East Tennessee. A fee is charged to cover materials.

HONORS GERMAN I (161)

1 Credit; 10th, 11th, 12th  
Prerequisite: Recommended grade of 85 or above in Honors English or 90 or above in a Standard English course

This course introduces students to the German-speaking world, its people and its culture and customs. Through various techniques, students are exposed to the five aspects of language learning: cultural awareness, listening comprehension, reading, speaking, and writing. This is an honors course designed to explore topics more in depth and at an accelerated pace. Students planning to take the Advanced Placement Course/Exam are also encouraged to enroll in this course. A fee is charged to cover materials.

GERMAN II (162)

1 Credit; 10th, 11th, 12th  
Prerequisite: German I

A continuation of level one, the second level promotes language learning by using a vast array of realia and additional materials to create communication "situations" that a teenager living in Germany might face. In-depth grammar and vocabulary acquisition exercises are intended to prepare the student for college placement exams. A fee is charged to cover materials.

HONORS GERMAN II (163)

1 Credit; 10th, 11th, 12th  
Prerequisite: Honors German I or  
Recommended grade of 90 in German I

This is an advanced course for students who are interested in further developing and building upon the skills learned in German I. The Honors curriculum includes a more intensive development of the five language acquisition skills: cultural awareness, listening comprehension, reading, speaking, and writing. Students planning to take the AP Exam are encouraged to enroll in this course. A fee is charged to cover materials..

HONORS GERMAN III (164)

1 Credit; 10th, 11th, 12th  
Prerequisites: Honors German II or  
Recommended grade of 90 in German II

The curriculum includes extensive use of the language, the study of literature and current events to develop the five language acquisition skills further. This course is recommended for college-bound students who plan to take a university placement test, Advanced Placement course/exam, or study the language at the university level. Students who have successfully completed Honors German II or who have demonstrated proficiency as determined through a language proficiency test or through teacher recommendation are eligible to take this course. This course may be taught during another German course and require some independent learning. A fee is charged to cover materials.

AP GERMAN LANGUAGE AND CULTURE (167)

See Advanced Placement Section

LATIN

Latin is a language that can benefit any student who would like to enhance his vocabulary, reading ability, written and oral communication in English, appreciation for the influences of the classical world, and the foundation for learning other languages. It also helps a student with self-discipline and memorization skills. Through this study the student understands his own heritage better by understanding the ancient historical setting through a study of Greek and Roman customs and mores, as well as Greek and Roman accomplishments in government, art, and architecture.

LATIN I (170)

1 Credit; 10th, 11th, 12<sup>th</sup>  
**Online course through The Niswonger Foundation**

The first year student is taught the basic skills of grammar in order to enable the student to read and translate Latin. Emphasis is placed on the comprehension of the language. The cultural heritage of the Roman people is learned through cultural lectures, videos, and projects. The influence and value of the Latin language is also emphasized through Latin-related articles from the media.

LATIN II (172)

1 Credit; 10th, 11th, 12th  
Prerequisite: Latin I  
**Online course through The Niswonger Foundation**

The Latin II student is stimulated to enhance his development of the proficient use of the Latin language. Advanced grammar is taught. The appreciation of classical literature is developed by reading and discussion of an English translation of the Aeneid. A study of Roman architecture is emphasized through lectures from Yale University.

SPANISH

SPANISH I (180)

1 Credit; 10th, 11th, 12th

This course introduces students to the Spanish-speaking world, its people and its culture and customs. Through various methods and activities, students are exposed to the five aspects of language learning- speaking, reading, listening, writing, and culture. A fee is charged to cover the cost of materials.

SPANISH II (182)

1 Credit; 10th, 11th, 12th  
Prerequisite: Spanish I

This course will develop and strengthen the skills learned in Spanish I as well as provide additional skills for the student to acquire. The five aspects of language learning- speaking, reading, listening, writing, and culture will be studied more in depth. A fee is charged to cover the cost of materials.

SPANISH III (184)

1 Credit; 11th, 12th  
Prerequisite: Spanish II with a recommended average of 85 or above in Spanish I & II

Spanish III begins with a review of basic grammar learned in Spanish I and II. Advanced grammar is introduced gradually. There is an overview of Spanish and Latin American history, literature, poetry, and culture. Speaking and writing skills are stressed. Class must have a minimum of 15 students to be offered. **Sufficient student interest and instructional resources is necessary to offer this course. A fee is charged to cover the cost of activities.**

# MATHEMATICS

## MATHEMATICS INTERVENTION (3180)

1 Credit

The Mathematics Intervention course is not a substitute for the grade level mathematics courses. This course will be a supplement to the required Mathematics coursework. This course is designed as the Response to Intervention Tier 2 and Tier 3 intervention programming. The course will include math calculation, math reasoning, and math problem solving. The course will also include study skills and career planning.

## ALGEBRA II (310)

1 Credit; 11th, 12th  
Prerequisite: Algebra I Credit

Algebra II includes the topics of the complex number system, relations and functions, exponents and logarithms, quadratic relations, systems of equations and inequalities, probability and statistics, and trigonometry. This is a TN Ready course. This is a TN Ready course. The TN Ready exam score will be calculated into the grade per board policy.

## HONORS ALGEBRA II (310H)

1 Credit; 10th, 11th, 12th  
Recommended Prerequisite: Minimum grade of 85 in Honors Algebra I or 90 in Algebra I A/B

Honors Algebra II is a mathematics course designed for advanced students who are capable of a more rigorous study of Algebra II at an accelerated pace. In addition to the material covered in Standard Algebra II, students explore more challenging problems. Topics are covered in greater depth and there is a strong emphasis on problem-solving, critical analysis, and application. Some of the course requirements for Honors Algebra II include research, reading assignments, writing assignments, and projects to enhance understanding of the objectives studied in the course and to apply course curriculum to relevant or real-world situations. While a graphing calculator is not a requirement for this course, students may benefit from having their own graphing calculator to continue practicing skills acquired in class. This is a TN Ready course. This is a TN Ready course. The TN Ready exam score will be calculated into the grade per board policy.

## GEOMETRY (314)

1 Credit, 10th, 11th, 12th  
Prerequisite: Algebra I credit

This course includes the state-required basic elements of plane and solid geometry, coordinate geometry, formal proofs, and problem solving. This is a TN Ready Course. This is a TN Ready course. The TN Ready exam score will be calculated into the grade per board policy.

## HONORS GEOMETRY (316)

1 Credit; 10th, 11th, 12th  
Recommended Prerequisite: Minimum grade of 85 in Honors Algebra I or 90 in Algebra I A/B

Honors Geometry is an accelerated mathematics course for students who desire a more rigorous approach in the learning of Euclidean geometry. In addition to the objectives covered in a standard geometry class, the students will be required to complete a project that applies the course curriculum to relevant or real-world situations. Extended reading and writing assignments connected with the curriculum will also be a part of the course requirements. Emphasis on problem solving, critical analysis, and application will occur throughout the course. This is a TN Ready Course. This is a TN Ready course. The TN Ready exam score will be calculated into the grade per board policy.

## APPLIED MATHEMATICAL CONCEPTS (305)

1 Credit; 11th, 12th  
Prerequisite: Algebra I Credit, Geometry Credit

This course is focused on applications and modeling using mathematics and has industry needs in mind. It is aligned to the ACT college- and career- readiness standards. Topics include counting, combinatorics, probability, financial math and linear programming.



STATISTICS (318)

1 credit; State Dual Credit; 11th, 12th  
Prerequisite: Recommended average of 80 or above in Honors Geo. & Honors Alg. II; 85 or above in Geo. & Alg. II  
**State Dual Credit Testing**

Statistics is an integral part of most college courses of study. Students who are planning to study business, computer science, medicine, nursing, education, engineering, agriculture, science, sports medicine, architecture, pre-law, and a variety of other subjects will all be taking a statistics course at the college level. This course will introduce students to elementary statistics and data collection to help prepare students for college-level study. Students will construct tables and charts, analyze data, and perform experiments using computer models and graphing calculators. Emphasis will be placed upon the use of appropriate technology. Students will take challenge exam for the opportunity to earn post-secondary credit.

PRE-CALCULUS (320)

1 Credit; 11th, 12th  
Prerequisites: Recommended grade of 75 or better in Honors Geo and Honors Alg. II OR minimum grade of 80 in Geo. and Alg.II.  
**Both Algebra I, II and Geometry credits are required**

The content of this course is a combination of topics from trigonometry and pre-calculus. Objectives include understanding algebraic and transcendental functions, equations and inequalities, trigonometric functions, polar coordinates and complex numbers, sequences and series, and conic sections. Students must have at least a scientific calculator, and a graphing calculator (TI-83 or TI-84) is strongly recommended.

HONORS PRE-CALCULUS (320H)

1 Credit; State Dual Credit; 11th, 12th  
Prerequisites: Recommended grade of 80 or better in Honors Geo. and Honors Alg. II OR minimum grade of 85 in Geo. and Alg. II  
**Both Algebra I and Geometry credits are required**  
**State Dual Credit Testing**

Honors pre-calculus will cover the state curriculum with the addition of extended reading and writing assignments and a class project. Students are strongly encouraged to have a graphing calculator (TI-83 or TI84) recommended. Preparation for AP Calculus is an important objective of this class. Emphasis will be placed upon problem solving, critical analysis, and application throughout the course. Students will take challenge exam for the opportunity to earn post-secondary credit.

S.A.I.L.S MATH CLASS (325)

1 HS Credit, 12th  
Exemption from Developmental Math at the college level  
Prerequisites: ACT Math Score 15-18, Alg I, Alg II, Geometry

*This class is designed for the student who scores 18 or below on the math portion of the ACT test and is planning to attend college or technical school.* The class is computer-based with students working through 5 individually-paced modules. This course is available for high school credit only; however successful completion will exempt students from developmental math courses at state colleges, universities, and technical schools. *This class is free of charge to JCHS students.* If the student waits to take developmental math in college, the cost will be a minimum of \$118.00 PLUS the cost of tuition and can potentially put the student behind on college graduation.

AP CALCULUS (390) See Advanced Placement Section

AP STATISTICS (323) See Advanced Placement Section

## PHYSICAL EDUCATION / LIFETIME WELLNESS

### LIFETIME WELLNESS (602)

1 Credit; 10th, 11th, 12th

This course will address the state-required components of wellness and challenge each student to become his/her own personal trainer. Emphasis will be on personal responsibility for the quality of one's own health, decision-making skills, self-help and care, and personal fitness. A physical examination is required.

### LIFETIME PHYSICAL EDUCATION I (604)

1 Credit; 10th, 11th, 12th

This course is designed to develop and reinforce skills learned in Lifetime Wellness. The activities will include personal fitness/weight management, aerobic exercise, and some individual and dual sports. Only one credit may be earned in PE I.

### LIFETIME PHYSICAL EDUCATION II (606PE)

1 Credit; 10th, 11th, 12th

This course is designed to meet the active needs of students in areas of personal fitness through participation in team sports and innovative games. One credit may be earned in PE II.

### PHYSICAL EDUCATION INDIVIDUAL SPORTS (608)

1/2 Credit; 10th, 11th, 12th

This course is designed to help develop and reinforce physical skills, social skills, and individual game strategies. This course will involve daily exercise, sports appreciation, rhythms and dance, recreational games and social activity planning.

### SPORTS TRAINING (614)

1-3 Credits; 10th, 11th, 12th

The course offers detailed instruction on off-season conditioning and weight training to aspiring male and female athletes. Emphasis will be placed upon teaching the student the correct techniques in power and auxiliary lifts. Plyometric training will be given to improve power and quickness. Running will be required to improve endurance. A physician's statement on physical well being will be required.

### CPR AND FIRST AID (850)

1/2 Credit; 10th, 11th, 12th

This course entails practice and application of the standards and accepted principles of safety education and first aid. After successful completion of this course, students will be certified by the American Heart Association in CPR for health care providers and AED. Students must maintain an 84 average and have regular attendance to pass with qualifications for certification.

## **ARMY JROTC (Junior Reserve Officer Training Corps)** **Mission: To motivate young people to be better citizens.**

### ARMY JROTC (620)

1-6 Credits  
10th, 11th, 12th  
**Insurance Required**

Prerequisites for enrollment: An overall grade average of "C" and a commitment to self-improvement in leadership, personal responsibility, morals, character, physical fitness, and the discipline to properly wear the Army JROTC uniform. Enrollment in Army JROTC does not obligate the student in any way to military service. This program is offered as an elective course for any student in grades 9 through 12. The program gives students the opportunity to grow personally while analyzing their leadership strengths and weaknesses. Students will be exposed to various practical leadership exercises and opportunities to sharpen leader, follower, and communication skills. The program consists of four years of progressive instruction focused on building discipline, confidence, and the ability to lead or follow while working closely with others. Additional activities include rewarding experiences in the following areas: involvement in school events, community service, drill team, **color** guard, raiders, social events, and educational field trips. Through the application of team-building challenges, development of citizenship skills, involvement in community projects, and exposure to leadership opportunities, the student will complete the program as a more productive student and citizen. Students will obtain valuable life skills and a desire for self-improvement that will help them be successful in today's society. The curriculum varies as the student advances in the JROTC program. A student may only take one semester during their 9th grade year.

Army JROTC LET 1 (first semester) - Introduction to Leadership Development (620)

During the student's first semester in the program, he/she learns citizenship, U.S. military history, safety, hygiene, first aid, map and compass reading, leadership theory and application, teamwork, wear and appearance of the military uniform, drill and ceremonies, drug awareness, and military customs and courtesies. The first semester is focused on developing the leadership potential of all new students.

Army JROTC LET 2-4 (second and subsequent semesters) – Intermediate Leadership Development (620)

Additional prerequisite: Students must have a minimum grade of "C" from the previous semester in the JROTC program. In the second, third, and fourth year of Army JROTC, the student accepts daily leadership responsibilities and is required to continue to improve leadership skills. Students will be responsible to provide instruction based on the entire first year JROTC curriculum and will receive instruction in advanced levels of the curriculum. Students must have developed communication skills, precision drill and ceremonies abilities, a thorough knowledge of the curriculum, and must lead by example with strong morals, ethics and character. The LET 2-4 students are involved in planning and conducting all events for the JROTC program.

Other advantages of taking JROTC: Nominations for appointment to a U.S. military academy, advancement in college SROTC programs, and advanced ranks for enlistees.

Army JROTC Cadet Staff (622)

1 Credit

The Army JROTC Cadet Staff is by invitation only from the JROTC head instructor. This staff is responsible for planning all JROTC activities and events.

## SCIENCE

**All science courses offered count as laboratory science credits.**

BIOLOGY I (206)

1 Credit; 10th, 11th, 12th

This course surveys various fields of biology such as genetics, cellular structure, microscopic organisms, simple plants, and animals. The students should develop an awareness of their place in the environment as well as an appreciation for all life forms. Classroom activities for the course include lectures, discussions, a variety of technology, resource speakers, and laboratory work. This science credit is required for graduation, and includes a comprehensive TN Ready Exam that will be calculated into final grade per school board policy.

HONORS BIOLOGY I (209)

1 Credit; 9<sup>th</sup>, 10<sup>th</sup>

Prerequisite: Recommended grade average of 93 in both semesters of 8th grade science

This is an advanced credit course that surveys various fields of biology such as genetics, cellular structure, microscopic organisms, simple plants and animals. This course is designed for students who have a strong interest in science and plan on taking more than the minimum science classes needed to graduate. This is an EOC course. EOC exam score will be calculated into the grade per board policy. Semester-long research project required.

ZOOLOGY

1 Credit; 11<sup>th</sup>, 12<sup>th</sup>

Prerequisite: Biology I with a grade of 85 or higher and Chemistry I completed

Zoology is a science elective for college-bound students planning to pursue a career in the sciences such as field research, wildlife studies, or advanced degrees in zoology or biology. The curriculum will include laboratory dissections, behavioral studies, and field methods for data collection and research. The course will survey the animal kingdom phylum-by-phylum according to evolutionary relationships from the most ancient animals (e.g. protozoa and sea sponges) to the most recently-evolved (e.g. birds and mammals). Students will study the evolution, classification, anatomy, physiology, behavior, development, and ecology of both invertebrates and vertebrates.

AP BIOLOGY (290)

See Advanced Placement Section

BIOTECHNOLOGY (224)

1 Credit; 11th, 12th  
Prerequisite: Recommended grade average of 85 or better in Biology I

Biotechnology will empower students with the skills that are standard laboratory operating procedures. The course will provide students with proficiencies in keeping a legal scientific notebook, experimental design, micropipeting skills, preparations of solutions, cell culturing techniques, DNA isolation, and gel electrophoresis. Students will develop introductory level proficiency in Microsoft Word and Excel. The course will focus on skill development as well as career opportunities. Science-bound and business-bound students benefit from the extensive skill development, science methods, and career exploration that permeate the curriculum.

CHEMISTRY I (211)

1 Credit; 10th, 11th, 12th  
Prerequisites: Algebra I with recommended grade of 88 or better

This course provides a general survey of chemistry, leading to a basic understanding of the nature of matter and changes in matter. The course is centered on the application of chemical principles and theories. Laboratory experiences and problem-solving techniques are emphasized. This science credit is required for graduation, and includes a comprehensive TN Ready Exam that will be calculated into final grade per school board policy.

HONORS CHEMISTRY I (213H)

1 Credit; 10th, 11th  
Prerequisite: Biology I credit and Honors Algebra I with a recommended grade of 90 or higher

Honors Chemistry I is designed for advanced students with a strong background in both science and math. Principles of chemistry will be covered at an accelerated pace. This course will include extended reading assignments, research-based reports, problem solving experiences and laboratory experiments. This science credit is required for graduation, and includes a comprehensive TN Ready Exam that will be calculated into final grade per school board policy.

HONORS CHEMISTRY II (219)

1 Credit; 10<sup>th</sup>, 11th, 12th  
Honors Chemistry I with a recommended minimum grade average of 85

Honors Chemistry II is an accelerated course designed for students with a strong background in both science and math. The curriculum will include chemical kinetics, thermochemistry, chemical equilibrium, oxidation – reduction reactions, acids and bases, and solutions. This course will include extended reading assignments, research-based reports, problem solving experiences and laboratory experiments.

AP CHEMISTRY (289) See Advanced Placement Section

HONORS HUMAN ANATOMY AND PHYSIOLOGY (216)

1 Credit; 11th, 12th  
Prerequisite: Honors Biology I and Honors Chem. I with a recommended grade average of 85 or higher

This is a rigorous honors credit course and will benefit anyone planning to attend college. It is a must for anyone planning a career in the medical field. Course content will include the chemical basis of life, organization within the human body, homeostasis, and the basic arrangement of the human body. Classroom activities will include lectures, discussions, projects, resource speakers, and laboratory work.

PHYSICS I (214)

1 Credit; 11th, 12th  
Prerequisite: Algebra I, Geometry, & Algebra II with a recommended grade of 80 or higher

The student will explore the reasons the universe operates the way it does. The student will study scientific principles that control the events of everyday life. The student will use mathematics and problem-solving skills to apply concepts of mechanics, involving kinematics, forces, vectors, dynamics, work, and energy. This course focuses on mechanics involving observations and laboratory experiments. Physics fulfill the upper level math credit required for graduation for those students who have met the ACT college readiness benchmarks in mathematics.

HONORS PHYSICS I (214H)

1 Credit; 11th, 12th

Prerequisite: Algebra I, Geometry, & Algebra II with a recommended grade of 88 or higher

The student will explore the reasons the universe operates the way it does and study scientific principles that control the events of everyday life. To experience success in college, the student will use extensive mathematics and problem-solving skills to apply concepts of mechanics, involving kinematics, forces, vectors, dynamics, work, and energy. This course focuses on mechanics involving observations, research, projects, and laboratory experiments. Physics fulfill the upper level math credit required for graduation for those students who have met the ACT college readiness benchmarks in mathematics. This class is a preparatory class for AP Physics C: Mechanics or college physics.

PHYSICS II (215)

1 Credit; 11th, 12th

Prerequisites: Physics I, Honors Physics I

Physics II is a continuation of the study of physics. The course will cover materials above and beyond the basic physics class. It will cover concepts and principles of light, sound, electricity (static, current, and circuits), fields (electric and magnetic), and nuclear applications (quantum theory and atoms).

AP PHYSICS (217)

See Advanced Placement Section

AP ENVIRONMENTAL SCIENCE (287)

See Advanced Placement Section

## **SOCIAL STUDIES / HISTORY**

UNITED STATES GOVERNMENT (500SS)

½ Credit; 10th, 11th, 12th

American government is designed to prepare the student for the duties and rights of citizenship. Constitutional principles are studied, especially as they relate to the Presidency, Congress, and the court system. Other topics covered are personal freedoms and political participation.

ECONOMICS (501)

½ Credit; 10th, 11th, 12th

Economics is designed to introduce the high school student to the American economic system and to increase the vocabulary in the areas of marketing, business types, labor organizations, banking (national and international), and economic problems.

PSYCHOLOGY (503)

½ Credit; 11th, 12th

Psychology is an introduction of human behaviors as individuals and covers ways humans act and think. It is intended to help the student better understand the multiple forms of behavior over the lifespan. The course includes the history of modern psychology. The course is a good social studies elective for the college-bound student. Students are introduced to college level journal article analysis and critical thinking is emphasized.

SOCIOLOGY (518)

½ Credit; 11th, 12th

Sociology is intended as a study of the behavior of humans acting in groups. The course of study includes the investigation into types and forms of groups, group motivation, social forces, and the impact of groups on society and individuals. Emphasis is placed on groups encountered by teens and young adults. The course is a good social studies elective for the college-bound student. Students are introduced to college level journal article analysis and critical thinking is emphasized.

UNITED STATES HISTORY (504)

1 Credit; 11th, 12th

This course will quickly survey and review the period between exploration and the Civil War. Major emphasis will be placed upon the study of Modern America from 1890 to the present. Some of the major topics covered are American's involvement in Europe and Asia, the Great Depression, Crucial Decade of the 50s, Coming Apart in the 60s and 70s, and Vietnam. At all times current events will be used to make the past and present more relevant to one another. This is an EOC course. EOC exam score will be calculated into the grade per board policy.

HONORS UNITED STATES HISTORY (519)

1 Credits; 11th

This course will quickly survey and review the period between exploration and the Civil War. Major emphasis will be placed upon the study of Modern America from 1890 to the present. Some of the major topics covered are American's involvement in Europe and Asia, the Great Depression, Crucial Decade of the 50s, Coming Apart in the 60s and 70s, and Vietnam. At all times current events will be used to make the past and present more relevant to one another. The course will include a rigorous study of history with outside reading assignments, research, writing assignments, and projects. This is an EOC course. EOC exam score will be calculated into the grade per board policy.

ANCIENT HISTORY (511)

1 Credit; 10th, 11th, 12th

Using the current six content standards and four process standards found within the Tennessee Social Studies Curriculum framework, this course will focus on the history of times long past. Tennessee teachers are working to create an Ancient History framework that will serve as a measure guiding students toward an understanding of the relationships among persons and places, and an overall era's relationship with those proceeding and preceding it in the history of our world before the Renaissance.

HONORS ANCIENT HISTORY (526)

1 Credit; 10th, 11th, 12th

This is an honors level history course designed for those with superior skills in reading, writing, and research. It is an in-depth look at ancient civilizations and their impact on the world today. Students will research and study the earliest civilizations in Mesopotamia, Egypt, China, Greece, and Rome all the way through the earliest Americans finishing just before the start of the Renaissance period. Incoming freshmen taking this course is based upon recommendation of the middle school social studies teacher. Upper classmen wanting to take the course should have the highest skills in reading, writing, and research. It includes outside readings, research, a variety of writing assignments, and projects in order to adhere to the state framework of standards for honors courses.

WORLD HISTORY (508)

1 Credit; 10th, 11th, 12th

Students will study the history of humankind with a more concentrated focus from the Renaissance to present day. The six social studies standards of essential content knowledge and four process skills are integrated for instructional purposes. Students will utilize different methods that historians use to interpret the past, including points of view and historical content.

CONTEMPORARY ISSUES (509SS)

1 Credit; 10th, 11th, 12th

This course will examine issues that affect our county, state, and nation. Topics to be covered include the environment, energy crisis, terrorism, taxes, legal system, etc. Text will include newspapers, magazines, and the news. Students will present information in a variety of ways, including public speaking.

WAR AND AMERICAN SOCIETY (PENDING STATE APPROVAL)

1 Credit; 10th, 11th, 12th

This course will examine the impact of war on American society from colonial times to the Cold War. The class will focus on political, social, cultural, and military themes. Special emphasis is placed on the Civil War and World War II. An express emphasis will be given to vocabulary and geography skills as well.

BIBLE HISTORY (515)

1 Credit; 10th, 11th, 12th

Students will study the Bible in its historical context by examining the events and people recorded within it. Some events to be studied include the exodus from Egypt, the battle for the Promised Land, the rise and fall of the kingdom of David, the Babylonian Exile and return from exile, the Temple, and events influencing the writings of the Law, the Prophets, the Gospels, Paul's Epistles, and Revelation. Attention will be given to the Bible's intersection with contemporary American life and current conflicts in the Middle East. The approach of study will be academic and secular.

See Advanced Placement Section:

AP MICROECONOMICS (512SS); AP MACROECONOMICS (527); AP UNITED STATES GOVERNMENT (513SS)  
AP COMPARATIVE GOVERNMENT and POLITICS (528); AP EUROPEAN HISTORY (591); AP US HISTORY (521)  
AP WORLD HISTORY (529SS); AP HUMAN GEOGRAPHY (530)

## OTHER COURSES

### PEER TUTORING (914)

(Nature and Needs of Exceptional Children)

1 Credit; 11th, 12th

Prerequisites: Prior Instructor Approval

Minimum 85 G.P.A.

Proficient in at least one core subject

This course provides the opportunity for mature students to work with teachers and their students who have exceptional needs, thereby learning more about exceptional students while helping them be successful in the high school setting. Students will work under the supervision of teachers of the exceptional students. Grades will be given by the supervising teacher based upon study assignments, performance in assigned tasks, demonstrated responsibility and attitude, and attendance. The course is a practicum, offering a good opportunity for anyone considering teaching or some aspect of social work for his/her career. **Students must have pre-approval of the transition coordinator to register for the class.**

### CLERICAL AIDE-PRINCIPLES OF BUSINESS (900)

1 Credit; 12th

Required classroom training will be an integral part of the course. Students will receive practical experience in many facets of clerical procedures from office work to teacher's aide. The student's performance will be evaluated and reflected in grade. Other evaluation may include interview, grades, attendance, and discipline record. Students may receive only 1 credit in this course. **Students must have an excellent attendance, disciplinary and academic record.**

### ACT PREPARATION (380)

1/2 Credit; 10<sup>th</sup>, 11th, 12th

Prerequisites: Algebra I Credit; Geometry

Credit; 2 Credits in English

This is a course open to juniors and seniors who will be taking the ACT in preparation for college entrance. It will focus on study skills, test-taking strategies, review of fundamental academic objectives, and test practice.

### LEADERSHIP (918)

1 Credit; 11th only; Prerequisite: Application & interview required prior to registration; \$100 Tuition

This is a special course held in conjunction with the Jefferson County Chamber of Commerce Youth Leadership program offered to selected potential leaders. Curriculum will include study and interaction of government, business, agriculture, health care, education, social services, and community service. Students will be required to attend meetings and events outside of regular classes. This course is only available during the spring semester.

### SERVICE LEARNING (919)

1-3 Credits; 11th, 12<sup>th</sup>;

Service Learning is a form of experiential learning where students develop knowledge and critical thinking skills while addressing genuine community needs. Through direct service activities, students gain an understanding of human psychology, life skills, community needs and resources, civic responsibility, career options, and human diversity. Students must maintain a 3.0 and in good standing with conduct and attendance. **Placements in this class are for off-campus. It is the responsibility of the parent/guardian to provide transportation.**

### SENIOR SEMINAR (1003)

1/2 Credit; 12th

The course is a fall semester only course that focuses on post-secondary education. Students will participate in every phase of college preparation and planning—researching and applying to colleges, touring college campuses, meeting college recruiters, career exploration, and applying for scholarships and financial aid. During the nine weeks, students will also discuss the financial, educational, social, and emotional challenges they may face during the first year of college.

### COLLEGE & CAREER SEMINAR (####)

1/2 Credit; 11th

The course is a spring semester only course that focuses on post-secondary education. Students will participate in every phase of college preparation and planning—researching and applying to colleges, touring college campuses, meeting college recruiters, career exploration, and applying for scholarships and financial aid. During the nine weeks, students will also discuss the financial, educational, social, and emotional challenges they may face during the first year of college.

STUDY SKILLS (1002)

1/2 Credit; 10th

The course focus is on strengthening students' academic skills and determining their learning styles. Topics include strategies for note-taking, test-taking, studying, critical reading, writing, organization, memorization, and active listening. Students will also focus on improving their reading skills and journaling. .

MILITARY BASIC TRAINING (618)

2 Credits

Any student that enlists in a branch of the U.S. Military and completes basic training prior to graduation may receive two credits in accordance with TN Code Annotated, Title 49, Chapter 6, Part 12.



**JEFFERSON COUNTY HIGH SCHOOL**

**CLASS REGISTRATION**

PLEASE PRINT:

STUDENT ID # \_\_\_\_\_

Last Name	First Name	MI	Grade Next Year
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After reviewing the graduation requirements and discussing with my parents and current teachers, I would like to take the following eight (8) classes for the school year.

NAME OF COURSE:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_

LIST FOUR (4) ALTERNATE COURSES FOR YOUR ELECTIVE COURSES:

- |          |          |
|----------|----------|
| 1. _____ | 3. _____ |
| 2. _____ | 4. _____ |

\_\_\_\_\_  
**(Parent/Guardian Signature)**

INSTRUCTIONS: Tear this sheet out, have your parent/guardian sign, and take with you to registration.

\*\*\*\*\*

**FOREIGN LANGUAGE/FINE ART WAIVER:**

*I understand the fine art and foreign language requirements may be waived for students who are sure they are not going to attend a university and be replaced with three (3) courses designed to enhance and expand the program of study. I give permission for my student to utilize this option.*

\_\_\_\_\_  
(Student Signature)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Parent/Guardian Signature)

\_\_\_\_\_  
(Date)

\*Please complete the student ID/name portion at the top of this form. Once this waiver has been completed and signed, please return to your counselor.\*