

# **Central Magnet School**

## **Mission Statement**

*The **Mission** of Central Magnet School is to challenge each student, teacher and parent with the high expectations of a challenging curriculum;*

*To provide students with a rigorous educational program in a collaborative setting, with emphasis on mastery of academics, critical thinking, effective communication skills, and character development.*

**Where Excellence is a Way of Life**



**2018-2019**

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# GRADUATION REQUIREMENTS

## Central Magnet School

All students will meet the following core curriculum requirements for graduation:

### Core Curriculum

English .....	4 Credits
Mathematics .....	4 Credits
Science .....	4 Credits
Social Studies .....	3 Credits
Wellness .....	1 Credit
Physical Education .....	0.5 Credit
Foreign Language (Same Language) .....	2 Credits
Fine Arts .....	1 Credit
Personal Finance .....	0.5 Credit
Elective Focus .....	3 Credits
Additional Elective .....	1 Credit

Total required for graduation is 24 credits

### **Rutherford County Valedictorian Requirements**

- 4.0 Grade Point Average
- 12 Honors or Above Courses
- Graduate with Honors and Distinction

# DIPLOMAS

## Diploma Types

- **Tennessee High School Diploma**

To be eligible for this diploma, the student must complete the graduation requirements dictated by the state of Tennessee.

- **Central Magnet School Diploma of Merit**

To be eligible for this diploma, the student must complete the graduation requirements dictated by the state of Tennessee, all community service requirements for the student's time at Central, and the senior thesis. The student also must have completed 4 Advanced Placement courses during his or her high school career.

Students who earn this diploma can purchase a white stole with the Central Magnet School crest embroidered on it to wear for recognition during graduation. These students will also be recognized in the program for their achievement.

## Diploma Seals

- **Valedictorian**

Students who complete the Rutherford County Valedictorian Requirements will have a valedictorian seal on their diploma, wear a Valedictorian medal at graduation, and be recognized in the program for their achievement.

- **Graduation with Honors**

To be eligible for graduation with honors, the student must meet specific ACT benchmarks:

	English	Math	Reading	Science
2015	18	22	22	23

For the classes of 2015 and beyond, the student will need to meet the newest set of benchmark scores to be eligible for graduation with honors. The deadline for submitting ACT scores to the school for these classes will be December of their senior year.

Students who earn graduation with honors will have a seal on their diploma and be recognized in the program for their achievement.

- **Graduation with Distinction**

To be eligible for graduation with distinction the student must attain a 3.0 grade point average plus **ONE** of the following:

- Earn a nationally recognized industry certification
- Participate in at least one Governor's School
- Participate in one of the state's All State Musical Organizations
- Be selected as a National Merit Finalist or Semi-Finalist
- Attain a composite score of 31 or higher on the ACT
- Attain a score of 3 or higher on 2 AP exams
- Successfully complete the IB Diploma Program
- Earn 12 or more semester hours of transcribed postsecondary credit

- **Graduation with Work Ethic Distinction**

**To receive the Work Ethic Distinction, a student must earn a minimum of 20 points out of a possible 40 points and earn a regular high school diploma. Students who obtain this distinction are proving they are both college and career ready. Earning this and meeting job related requirements will guarantee an interview with participating Rutherford County employers. For more info visit <http://rutherfordworks.com/building-tomorrow-s-workforce/programs/work-ethic-distinction>.**

# CTE

## BIOMEDICAL

### **STEM I - HONORS PRINCIPLES OF THE BIOMEDICAL SCIENCES: 1 Credit Course # 6144H**

Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts including: homeostasis, metabolism, inheritance of traits, feedbacks systems, and defense against disease are embedded in the curriculum.

Engineering principles including: the design process, feedback loops, fluid dynamics, and the relationship of structure to function are incorporated in the curriculum where appropriate. The course is designed to provide an overview of all the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

### **STEM II - HONORS HUMAN BODY SYSTEMS: 1 Credit Course # 6145H**

*Prerequisite: Principles of the Biomedical Sciences*

Students engage in the study of the processes, structures, and interactions of the human body systems. Important concepts in the course include: communication, transport of substances, locomotion, metabolic processes, defense, and protection. The central theme is how the body systems work together to maintain homeostasis and good health. The systems are studied as "parts of a whole," working together to keep the amazing human machine functioning at an optimal level. Students design experiments, investigate the structures and functions of body systems, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiratory operation. Students work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

**STEM III - HONORS MEDICAL INTERVENTIONS: 1 Credit**  
**Course #6146H**

*Prerequisite: Human Body Systems*

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a “How-To” manual for maintaining overall health and homeostasis in the body as students explore how to prevent and fight infection, how to screen and evaluate the code in human DNA, how to prevent, diagnose and treat cancer, and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Each family case scenario introduces multiple types of interventions and reinforces concepts learned in the previous two courses, as well as presenting new content. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. These interventions are showcased across the generations of the family and provide a look at the past, present and future of biomedical science. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future.

**STEM IV - HONORS Biomedical Innovations: 1 Credit**  
**Course #6147H**

*Prerequisite: Medical Interventions*

Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals. This course is designed for 12th grade students.

# **BUSINESS TECHNOLOGY**

## **HONORS ACCOUNTING I: 1 Credit**

### **Course #3779H**

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

## **HONORS ACCOUNTING II: 1 Credit**

### **Course #3780H**

*Prerequisite: Accounting I*

Accounting II is an advanced study of concepts, principles, and techniques used in keeping the financial records of a sole proprietorship, partnership, and corporation. Departmental, management, cost, and not-for-profit accounting systems are explored. Students will be required to do outside reading from accounting journals, AICPA, and the CPA letter. Accounting simulations will provide hands-on, real-world experience in accounting practices.

## **HONORS PERSONAL FINANCE: 1/2 Credit**

### **Course #5901H**

#### **Grades 10-12**

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

## **HONORS INTRO TO BUSINESS & MARKETING: 1/2 Credit**

### **Course #5905H**

Honors Intro to Business & Marketing is a core course in which students are introduced to all aspects of business: the domestic and international economies, financial principles, management strategies, administrative and information systems, ethics, and organizational and professional leadership.

Students will analyze the elements of the business environment and focus on attitudinal and problem-solving skills inherent to success. (This course provides access to a computerized workstation for each student to complete computer applications using appropriate software.)

# COMPUTER TECHNOLOGY

## **HONORS COMPUTER SCIENCE FOUNDATIONS: 1 Credit**

### **Course #6095H**

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

## **AP COMPUTER SCIENCE PRINCIPLES: 1 Credit**

### **Course # 3634AP**

AP<sup>®</sup> Computer Science Principles introduces students to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. The rigorous course promotes deep learning of computational content, develops computational thinking skills, and engages students in the creative aspects of the field.

## **HONORS CODING I: 1 Credit**

### **Course #6098H**

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



**AP COMPUTER SCIENCE A: 1 Credit**  
**Course #3635AP**

The AP Computer Science A course is an introductory course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course.

# ENGINEERING

## **HONORS ENGINEERING I – PRINCIPLES OF ENGINEERING &**

**TECHNOLOGY: 1 Credit**

### **Course #5924H**

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

## **HONORS ENGINEERING II – ENGINEERING DESIGN I: 1 Credit**

### **Course #6139H**

*Prerequisite: Honors Engineering I – Principles of Engineering & Technology*

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

## **HONORS ENGINEERING III – ENGINEERING DESIGN II: 1 Credit**

### **Course #6040H**

*Prerequisite: Honors Engineering II – Engineering Design I*

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

**HONORS ENGINEERING IV - ENGINEERING PRACTICUM: 1 Credit**  
**Course #6141H**

*Prerequisite: Honors Engineering III – Engineering Design II*

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

**STEM IV - ENGINEERING Focus: 1 Credit**  
**Course #6147HE**

*Prerequisite: Honors Engineering III – Engineering Design II or teacher approval*

S1: The class will provide students an introductory experience to flying and becoming a pilot. It is designed to expose students to the inner workings of the National Airspace System (NAS) and discuss career options from all aspects of the industry, providing information about topics such as quality of life, salaries, and career advancement opportunities. Additionally, the following topics will be covered: weather information, cross-country flight planning, national Airspace System, aircraft performance and aerodynamics, physiology, emergencies, and human factors.

S2: Students will work in collaborative groups to design projects that may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. First robotics will be one component of this class as well.

## **OTHER CTE ELECTIVES**

### **HONORS INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS:**

**1 Credit**

**Course #6142H**

**Grades 11-12**

Introduction to Geographic Information Systems is an applied course for students who have already mastered basic computer skills and wish to apply those skills in novel contexts with the use of geographic information systems (GIS) and geospatial technologies. Upon completion of this course, proficient students will develop the ability to reason spatially and analyze relationships among concepts; to capture, store, validate, integrate, analyze, and display data related to locations on the Earth; and to create, query, maintain, and modify geospatial datasets. They will learn how GIS is used as a decision-making and data management tool to solve problems in various industries and fields. Furthermore, students will use GIS software to create a spatially accurate map with data retrieved from online or locally available resources.

# DRIVER EDUCATION

**DRIVER EDUCATION: 1/2 Credit  
Course #3321**

*This is a ½ credit course offered each semester.* It covers the basic procedures for the safe operation of an automobile with 30 hours classroom instructions and 6 hours behind-the-wheel practice driving. The primary objective is to make the student a safe driver with an understanding of the present problems on the highway and an appreciation of the laws governing our drivers and highways.

**Effective July 1, 2001 all students who are 15, 16, or 17 years of age must complete the Tennessee “Graduated Driver License” process before they may apply for a “Regular Class D License.** It is not necessary to have a “Permit” to enroll in Driver Education, but the student MUST be 15 years of age.

# ENGLISH – LANGUAGE ARTS

## **ADVANCED HONORS ENGLISH I: 1 Credit**

### **Course #3001A**

This course is part of the sequential program leading to the Advanced Placement Literature and Composition class taken during the senior year. Focus is on developing higher-level thinking skills through accelerated composition, in-depth reading, and analysis of literature. Students should have a mastery of grammar and mechanics, possess an aptitude for reading and writing, and realize that success depends on extensive preparation time and accelerated class work. This course requires one summer reading selection, which must be completed before entering class.

## **HONORS ENGLISH I: 1 Credit**

### **Course #3001H**

This course offers language skills, which improve and promote the student's reading and writing abilities. Emphasis is placed on advanced skills to increase grammar efficiency, vocabulary and spelling skills, to motivate students to read, to discuss and analyze literature, and to introduce students to research methods. In addition, students are taught effective study skills to facilitate learning across the curriculum. Included are mechanics in grammar, an introduction to research methods, literary genres, accelerated vocabulary units, writing experiences, and a parallel reading program, which emphasizes works of literary merit.

## **ADVANCED HONORS ENGLISH II: 1 Credit**

### **Course #3002A**

*Prerequisite: Advanced Honors English I*

This course is part of the sequential program leading to the Advanced Placement Literature and Composition class taken during the senior year and is designed for students in an academic program who intend to go to college. In addition to the honors curriculum, this course requires a greater depth of analysis and accelerated reading. Students who choose this course should realize that it requires extensive work in reading, literary analysis, and composition. Likewise, it is considered a preparatory course for eleventh grade AP English.

## **HONORS ENGLISH II: 1 Credit**

### **Course #3002H**

*Prerequisite: Honors English I*

Designed to prepare students for college and includes a review and continuation of grammar fundamentals, introduction to paragraph writing, and a study of representative work literature. Besides varied selections of poems, short stories, and non-fiction, the course also includes the study of a novel and a Shakespearean play. In addition, students will continue to develop research skills. Outside reading each six weeks may be required; summer reading is optional for extra credit and must be completed before entering the class.

**AP ENGLISH LANGUAGE AND COMPOSITION: 1 Credit**  
**Course #3013AP**

*Prerequisite: Advanced Honors English II or instructor's permission.*

Advanced English III offers the accelerated student the challenge of analyzing works of literary merit written by American authors and responding to the works in compositions. Students may take the Advanced Placement English Language and Composition exam for college credit. Summer reading is required.

**HONORS ENGLISH III: 1 Credit**  
**Course #3003H**

*Prerequisite: Honors English II*

Literature study consists of a chronological survey of American literature. A continuing study of grammar emphasizes the mastery of sentence structure, mechanics, and vocabulary. Composition assignments include the writing of paragraphs, a research essay, and book reports culminating in the Tennessee Writing Assessment in February and the writing of a research paper in the spring semester. Students study representative works of significant American authors and their relationship to specific periods in the United States history. In addition to the chronological survey of American literature, this course will emphasize an in-depth analytical study of works of literary merit. Commensurate analytical essays, an accelerated vocabulary program, and independent study will be utilized. A research paper is required, and the Tennessee Writing Assessment will be given in February.

**AP ENGLISH IV – LITERATURE AND COMPOSITION: 1 Credit**  
**Course #3014AP**

*Prerequisite: Advanced Placement English Language and Composition or instructor's approval.*

Advanced Placement English focuses on critical analysis and interpretation of literature (prose fiction and poetry) through writing. Students will read works of literary merit out of class and come to class prepared to engage in an exchange of ideas, analyzing and interpreting the texts they have read. This class discussion leads to written textual interpretations which are the primary focus of the class. Students are required to read additional texts for summer reading before entering the class. Students have the option of taking the Advanced Placement Examination administered by the College Board in the spring in order to receive college credit for the course.

**Honors English IV: 1 Credit**  
**Course # 3005H**

*Prerequisite: Honors English III*

The English IV Honors course offers the accelerated student the opportunity to focus on reading works of literary merit by British writers and to refine composition and analytical skills. Composition consists of personal essays, argumentative essays, and analytical essays, Accelerated vocabulary study and research methods are a vital part of the course. Additional works of literary merit are required for summer reading.

**AP SEMINAR: 1 Credit****Course #3167AP****Grades 11-12**

AP Seminar is a foundational course that engages in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**Yearbook: 1 Credit****Course #3008Y**

Yearbook is a two-semester, elective course that requires students to plan, develop, market, publish, and distribute the school yearbook. Students, with the help of the yearbook advisor, participate in all aspects of yearbook development and publication. This course also provides the opportunity to develop diverse journalistic, technology, business, and life skills like working with advanced technology, strengthening analytical and problem-solving skills, improving communication skills, and managing responsibility. Students will learn to use InDesign, Photoshop, and Yearbook Avenue online to produce and publish the school yearbook.

**HONORS WRITING LAB I: 1 Credit****Course #3097HWL****Grades 11-12**

Students will learn the theory and practice of running a high school writing lab. Alongside receiving training and reading foundational texts on writing tutoring, students will also conduct 25-minute peer tutoring sessions with Central Magnet students. Sessions may cover any stage of the writing process for any type of writing task, including papers and projects for class, preparation for standardized tests, and college or Governor's School admissions essays. Students will also be responsible for developing resources for and promoting the writing lab. This class is open to rising juniors and seniors only. Admission will be determined by application.



**HONORS WRITING LAB II: 1 Credit****Course #3097HWLII****Grades 12***Prerequisite: Writing Lab I*

Students in Writing Lab 2 would continue to fulfill the tasks of Writing Lab 1. Students would operate a writing lab for the entire school. They would read about writing tutor theory and practice. They would develop handouts and other materials for use in the writing lab. Once they had been properly trained, they would open a lab for the entire school. Students would be able to come to the lab to receive help on any writing task on which they are working. Students in the class would be responsible for conducting peer tutoring sessions and helping their classmates become better writers. In addition to these requirements, students in Writing Lab 2 would take the course for an additional year and serve as peer mentors to the students in Writing Lab 1. They would head committees that focus on secretarial work, fundraising, and advertising. They would also function as leaders in peer mentor groups, helping new tutors adjust to their roles as tutors, providing advice, and navigating difficult tutoring situations. They would also help train during the first week of the school year.

**HONORS FILM AS LITERATURE: 1/2 Credit****Course #3097HFL****Grades 10-12**

Students will begin to view film not only as entertainment, but as literature collaboratively created with a purpose. Essentially, instead of reading a novel or short story, students will be “reading” films. Students will think, discuss, and write analytically about characters, narration, point of view, setting, themes, plot, symbolism, genres, actors, directors, soundtracks, and technical aspects of film. Assignments will include, but are not limited to, film reviews, analytical essays/papers, class discussions and debates, and presentations (one of which will include a comparison and contrast presentation between a novel and the film based on that novel). Though film history and theory will not be a major focus of the course, it will also be discussed. A new film will be presented every one to two weeks, and the films can be segmented into themes (coming of age, family, cultural awareness, individual vs. society, etc.).

**HONORS MODERN LITERATURE: 1/2 Credit****Course # 3097HML**

This course is a one semester, college preparation course that overviews 20<sup>th</sup> and 21<sup>st</sup> centuries’ literary works and their creators. Learning experiences focus upon all genres of literature including the feature film as a literary expression.

**HONORS SHAKESPEARE: 1/2 Credit**

**Course #3097HSHK**

**Grades 10-12**

*Pre-requisite: English I and English II*

The purpose of this course will be to examine in detail each of the major dramatic genres tragedy, comedy, and history-as well as gain an insight into the life and times of England's finest dramatist and provide a framework of study in which students may explore, discover or develop an interest in a particular aspect of the Shakespearean canon.

**HONORS SPEECH: 1/2 Credit**

**Course #2906H**

This course prepares the student to be a more effective communicator. Students will prepare ideas in an organized format, learn to speak clearly with poise, and learn critical listening skills.

**HONORS CREATIVE WRITING: 1/2 Credit**

**Course #3012H**

Creative Writing is a course in which students study, analyze, and create literary composition in a variety of genres, and publish their work.

**HONORS ETYMOLOGY: 1/2 Credit**

**Course #31101H**

Students learn to derive meanings for words by analyzing the prefixes, suffixes, and roots which come from the Latin language. These skills will improve their performance on college-entrance tests such as the ACT and SAT. They will also learn the meanings of Latin and Greek words carried over into the English language, Latin phrases, and vocabulary derived from Greek mythology, literature, science, medicine, mathematics, et. al.

**HONORS MYTHOLOGY: 1/2 Credit**

**Course #9350H**

Students study the myths of Greek and Roman legend, which will provide them an understanding of allusions made to myths in literature, art, music, psychology, medicine, and advertising. This course will be especially helpful to the college-bound student who has not taken a Latin course.

# FINE ARTS

## GENERAL MUSIC

### **HONORS MUSIC THEORY: 1 Credit**

#### **Course #3514H**

This course is designed as an introduction into the areas of: melody writing, melodic form and analysis, composition, ear-training, harmony, part-writing, arranging for voice and instruments, and beginning orchestration. Class is taught through keyboard and computer experiences. This is a recommended course for students who wish to commence learning a musical instrument, but are not eligible for instrumental performance classes due to inexperience.

### **AP MUSIC THEORY: 1 Credit**

#### **Course #3535AP**

*Prerequisite: Successful completion of Honors Music Theory or 2 years in an instrumental music class.*

This course is an advanced study into the areas of: melody writing, melodic form and analysis, composition, ear-training, harmony, part-writing, arranging for voice and instruments, and orchestration. Class is taught through keyboard and computer experiences. This is a recommended course for students who wish to pursue music as a career and plan to either major or minor in music at the university level. This course covers the entire first year collegiate curriculum for music theory. College credit is available by successful completion of the AP test.

### **HONORS MUSIC HISTORY: 1 Credit**

#### **Course #3517H**

Students receive instruction designed to explore music and major musical styles and periods through understanding music in relation to both Western and Non-Western history and culture. Activities include analyzing and describing music; evaluating music and music performances; and understanding relationships between music and the other arts, as well as disciplines outside of the arts.

# INSTRUMENTAL MUSIC

## **HONORS WIND ENSEMBLE/JAZZ BAND: 1 Credit**

### **Course #3530HW**

*Prerequisite: By Audition Only.*

This instrumental performance course focuses on advanced techniques, music theory, and performance skills needed for playing in an advanced instrumental ensemble. Wind Ensemble & Jazz Band are the premiere performance ensembles at CMS, and students involved in both ensembles will cooperatively follow both the Jazz and Wind Ensemble curricula. Students only involved in Wind Ensemble will follow only that curriculum. Students will prepare for school, community, and festival performances. Private lessons and after-school tutoring are offered.

## **SYMPHONIC BAND: 1 Credit**

### **Course #3530S**

*Prerequisite: At least 3 years of previous band experience on an instrument required.*

This instrumental performance course focuses on progressing techniques, music theory, and performance skills needed for playing in an instrumental ensemble. Curriculum bridges the intermediate to advanced level and students are encouraged to audition for Mid-State and other Honor Band festivals. Students will prepare for school, community, and festival performances. Private lessons and after-school tutoring are offered. High school students not selected for the Wind Ensemble/Jazz Band will receive the individual and group enrichment to compete for placement in the Wind Ensemble/Jazz Band.

## **BEGINNING PIANO: 1 Credit**

### **Course #3540**

This course is designed to develop beginning piano techniques including playing piano music with one or both hands. Students will learn standard Western musical notation and theory, as well as how to translate a piece of music onto the piano in real time using both hands. Because beginner students are learning an entirely new set of skills, including interpreting a new written code (music), there is a noteworthy element of challenge to this class. However, students will emerge from this class with the ability to learn most elementary and early intermediate music on their own and perform it for others. Students will perform in one winter recital and one spring recital.

**INTERMEDIATE PIANO: 1 Credit****Course #3541**

*Prerequisite: Beginning Piano or Audition*

Students who have successfully completed Beginning Piano eligible to enroll in Intermediate Piano. Students who have not taken this class but have experience playing the piano may take audition with any prepared, written piece of music (no memorization necessary) the spring before the upcoming school year. In this class, emphasis will be placed on more advanced techniques such as dynamic contrast, articulation, phrasing, and weight transfer. Students will complete this class with the ability to learn most intermediate and early advanced music on their own and perform it for others. Students will perform in one winter recital and one spring recital.

**Guitar: 1 Credit****Course #3552**

This course is designed for students with limited experience with guitar. Emphasis will be on beginning guitar skills, basic music reading skills, and solo/ensemble playing.

**INTERMEDIATE ORCHESTRA II: 1 Credit****Course #3530IO**

*Prerequisite: 1 year of strings instruction. Audition or instructor approval required to enroll.*

This course is open to students who have some experience with stringed instruments. Students are encouraged to participate in lessons and mid-state auditions. Occasional after-school rehearsals are scheduled for performance preparation.

**HONORS ADVANCED ORCHESTRA: 1 Credit****Course #3530HAO**

*Prerequisite: Minimum of 3 years of instruction. Audition or instructor approval required to enroll.*

This course is designed for students who have mastered the fundamentals and are capable of performing more difficult literature. A variety of orchestral literature, written at appropriate performance grade level, will be practiced, rehearsed, and performed. In addition to performing, students will develop the ability to understand, appreciate, perceive, create, and respond to music through balanced instruction that includes studying works from historical, aesthetic, and critical perspectives.

# THEATRE ARTS

## **THEATRE ARTS I: 1 Credit**

### **Course #3520**

This course introduces students to various facets of the theatre including acting, technical aspects of theatre, makeup, scenery design, dance, and costumes. Performance is an important aspect of Theatre I.

## **THEATRE ARTS II – Advanced Acting: 1 Credit**

### **Course #3521**

*Prerequisite: Theatre Arts I or teacher approval*

This course is designed for the student that exhibits an interest in theatre. Students will focus on acting, directing, and the study of methods for developing a character for performance. The course includes scene work and improvisation.

## **THEATRE ARTS III – Technical Theatre: 1 Credit**

### **Course #3522**

*Prerequisite: Theatre Arts II or teacher approval*

This technical theatre class will be a semester of directing and a semester of hands on technical theatre. During the directing portion of the class students will learn the basics in directing. Students complete a production of their own in which they will hold auditions, cast and direct a ten minute play. Second semester will be focused on different elements of theatrical design including, make-up, costume, set, lighting and sound. Students will be involved in the design and construction of the Theatre I and II design elements.

## **THEATRE ARTS IV – Dramatic Literature: 1 Credit**

### **Course #3523**

*Prerequisite: Theatre Arts III or teacher approval*

An introduction to world dramatic literature through study of the development of drama and its various genres, focusing on the cultural contexts of individual works by diverse playwrights.

# VISUAL ARTS

## **VISUAL ART I: 1 Credit**

### **Course #3501**

This is a foundation course designed to introduce students to the visual arts. The elements and principals of art will be used to provide a broad variety of experiences in drawing, design, paintings, print-making, sculpture, critical thinking exercises, and art history.

## **VISUAL ART II –Drawing/Painting: 1 Credit**

### **Course #3502D**

*Prerequisite: Visual Arts I*

This elective course is a continuation of study for students who have satisfactorily completed Visual Art I and see art as an interesting and challenging subject. There is a continuing focus on art elements with an emphasis on higher level drawing and painting techniques. Components of art history, art criticism, and aesthetics are also incorporated.

## **VISUAL ART II –Sculpture/Ceramics: 1 Credit**

### **Course #3502S**

*Prerequisite: Visual Arts I*

This elective course is a continuation of study for students who have satisfactorily completed Visual Art I and see art as an interesting and challenging subject. The focus of this class is:

Semester 1- introduction to sculpture in which students will explore creating forms from wood, plaster, metal, etc.

Semester 2- will be dedicated to clay as a medium- hand building and wheel throwing will both be introduced.

## **VISUAL ART III –Drawing/Painting: 1 Credit**

### **Course #3503D**

*Prerequisite: Theatre Arts II – Drawing/Painting*

This course is a continuation of Visual Arts II - Drawing/Painting with an emphasis of students working more independently.

## **ADVANCED HONORS VISUAL ART IV - Drawing/Painting: 1 Credit**

### **Course # 3504AD**

*Prerequisite: Visual Arts I, II, III*

*Students enrolled per approval of the instructor*

This elective course is a continuation of study for students who have satisfactorily completed Visual Art I, II, and III and are self motivated and wish to be challenged to create mature art pieces. There is a continuing focus on art elements and principles and higher level drawing and painting techniques are expected. Components of art history, art criticism, and aesthetics are also incorporated. Student will work more independently toward a portfolio similar to AP Studio.

**AP STUDIO ART – DRAWING PORTFOLIO: 1 Credit**  
**Course # 3533AP**

*Prerequisite: Visual Arts I, II, III*

*Students enrolled per approval of the instructor*

AP Studio Art is designed for students who are seriously interested in the practical experience of art. In this class students are required to complete a quality portfolio of a variety of media and subject matter. AP Studio Art is not based on a written exam; instead, students submit portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios — 2-D Design, 3-D Design and Drawing — corresponding to the most common college foundation courses.



# VOCAL MUSIC

## **TREBLE CHOIR: 1 Credit**

### **Course #3531T**

This is an introductory course for first year female singers. All students, regardless of experience, are welcome to enroll. SSAA choral music from different cultures and historical periods is studied, as well as basic musical terminology and technique. Public performances in the school and community during the school year require mandatory concert participation, including at least one winter concert and one spring concert. In the fall, freshman students are encouraged to audition for the Middle Tennessee Freshman Honors Choir while sophomores and older may audition for the TMEA Tennessee All-State Chorus.

## **HONORS VARSITY CHOIR: 1 Credit**

### **Course #3531HVC**

High school female singers who have previously passed a vocal course and all high school males are eligible to enroll in Varsity Choir. Varsity Choir is a mixed choir that performs advanced SATB literature, both a cappella and accompanied. Frequent assessment of individual vocal skills requires the demonstration and application of advanced musical concepts. Advanced tone production, individual and group musicianship, and choral techniques are stressed. The Varsity Choir performs frequently in the school and in the community with mandatory attendance/participation expected for performances, including at least one winter concert and one spring concert. Sophomore students and older are encouraged to audition for the TMEA Tennessee All-State Chorus in the fall and the musical as enhancements to their musical development.

## **HONORS SHOW CHOIR: 1 Credit**

### **Course #3531HSC**

*Prerequisite: Students must have previously passed a High School level choir class in order to be eligible to audition (thus, freshman are not eligible). All eligible students must complete an audition.*

This course will be an auditioned, co-ed group of singer/dancers that will perform mostly Broadway show tunes, though there will be extensive training in classical voice and a little bit of classical music as well. As in all chorus classes, music literacy and performance will be strongly emphasized through the teaching of solfège (Do, Re, Mi syllables), but this group will also have the added component of choreography.

# HEALTH and PHYSICAL EDUCATION

## **PHYSICAL EDUCATION ½ Credit (Grade 10)**

### **Course #3301**

The numerous activities in the physical education program include daily warm-ups for each student, followed by individual and team sports. These activities provide carry over values for leisure time participation.

## **WELLNESS: 1 Credit (Grade 9)**

### **Course #3303**

#### **HEALTH-RELATED**

Lifetime wellness is a required course containing the following modules: nutrition, personal fitness and related skills, mental health, disease prevention and control, sexuality and family life, chemical education, and safety and first aid.

#### **PHYSICAL-RELATED**

Half of the year is spent in the gym learning the basic knowledge and skills of activities, which have carry-over values in life, which will enhance good health and well-being. Such activities include: wrestling, safety and self-defense, line dancing, jump rope, swimming, basketball, bench training, weight training, volleyball, badminton, pickle ball, canoeing, soccer, softball, flag football, track and field, Frisbee, golf, and overall conditioning. It is a requirement to dress out and participate in all activities. Also, you will be required to write a paper at the end of the semester.

# MATHEMATICS

## **ADVANCED HONORS INTEGRATED MATHEMATICS I: 1 Credit**

### **Course # 3117A**

This course is the first of three courses in a series that uses a more integrated approach to cover the same algebra and geometry concepts and skills that are included in the traditional three course series. The problem situations, models, and technology used will foster connections among the various strands of mathematics and develop concepts from multiple perspectives.

More depth and faster pace is expected for this class. The student must be self-motivated and capable of independent or group work. The student is expected to be assigned problems with a minimum of guidance from the teacher.

## **HONORS INTEGRATED MATHEMATICS I: 1 Credit**

### **Course #3117H**

This course is the first of three courses in a series that uses a more integrated approach to cover the same algebra and geometry concepts and skills that are included in the traditional three course series. The problem situations, models, and technology used will foster connections among the various strands of mathematics and develop concepts from multiple perspectives.

## **ADVANCED HONORS INTEGRATED MATHEMATICS II: 1 Credit**

### **Course # 3118A**

Integrated Math II is the second in a series of three integrated math courses.

This course builds upon concepts taught in Integrated Math I with an emphasis on quadratic and polynomial expressions, equations, and functions. This course also focuses on geometric similarity and interpreting functions from a real life context. Students extend previous knowledge of exponential properties to rational exponents. This course also introduces probability of compound events and the complex number system. The advanced honors course will substantially exceed the content standards and learning expectations in the Integrated Math II honors course. Students will take the TNReady Integrated Math II exam.

## **HONORS INTEGRATED MATHEMATICS II: 1 Credit**

### **Course #3118H**

Integrated Math II is the second in a series of three integrated math courses.

This course builds upon concepts taught in Integrated Math I with an emphasis on quadratic and polynomial expressions, equations, and functions. This course also focuses on geometric similarity and interpreting functions from a real life context. Students extend previous knowledge of exponential properties to rational exponents. This course also introduces probability of compound events and the complex number system. The honors course will substantially exceed the content standards and learning expectations in the Integrated Math II course. Students will take the TNReady Integrated Math II exam.

### **HONORS INTEGRATED MATHEMATICS III: 1 Credit**

#### **Course #3119A**

*Prerequisite: Advanced Honors Integrated Math II or Middle School Integrated Math II*

Integrated Math III is the third in a series of three integrated math courses. This course builds upon concepts taught in Integrated Math I and Integrated Math II and emphasizes polynomial and rational expressions, equations, and functions. This course has a focus on geometric modeling and using algebra to prove geometric theorems. This course also introduces students to circles, basic trigonometric functions, and foundational statistics skills such as interpretation of data and making statistical inferences. The advanced honors course will substantially exceed the content standards and learning expectations in the Integrated Math II Honors course. Students will take the TNReady Integrated Math III exam.

### **HONORS INTEGRATED MATHEMATICS III: 1 Credit**

#### **Course #3119H**

*Prerequisite: Honors Integrated Math II or Middle School Integrated Math II*

Integrated Math III is the third in a series of three integrated math courses. This course builds upon concepts taught in Integrated Math I and Integrated Math II and emphasizes polynomial and rational expressions, equations, and functions. This course has a focus on geometric modeling and using algebra to prove geometric theorems. This course also introduces students to circles, basic trigonometric functions, and foundational statistics skills such as interpretation of data and making statistical inferences. The honors course will substantially exceed the content standards and learning expectations in the Integrated Math II course. Students will take the TNReady Integrated Math III exam.

### **ADVANCED HONORS PRE-CALCULUS: 1 Credit**

#### **Course #3126A**

*Prerequisite: Advanced Honors Algebra II*

This course will include a broader scope of topics than the Honors-Pre-Calculus course previously described. Students will be challenged with individual and group projects, research, and other activities. This course is designed for juniors who plan to take AP Calculus their senior year.

### **HONORS PRE-CALCULUS: 1 Credit**

#### **Course #3126H**

*Prerequisite: Honors Algebra II*

This course is designed for those who seek a four-year college education with a technical major such as business, science, or mathematics. In-depth study of trigonometry as well as the study of the applications, interrelationships and terminology of mathematics will be the major emphasis in this course. It develops an understanding of polynomial, logarithmic, exponential, and trigonometric functions, sequences, series, limits, and composition and inverse functions. Vectors, polar coordinates and complex numbers are also studied.

**HONORS CALCULUS: 1 Credit****Course #3113H**

*Prerequisite: Honors or Advanced Honors Pre-Calculus*

The topics covered in this course functions, graphs, limits, derivatives, and integrals. This course is for the student who does not plan to take the AP test.

**AP AB CALCULUS: 1 Credit****Course #3127AP**

*Prerequisite: Advanced Honors Pre-Calculus*

This is a college-level learning experience, and is a continuation of the Advanced Honors Program. The scope, depth, and the pace of this class are intensive. Students who successfully complete AP Calculus are encouraged to take the AP exam in May for possible college credit.

**AP BC CALCULUS: 1 Credit****Course #3128AP**

*Prerequisite: Advanced Honors Pre-Calculus*

The topical outline for Calculus BC includes all Calculus AB topics plus additional areas. All topics are recommended by the College Board. Students have the option of taking the AP exam administered by the College Board.

**AP STATISTICS: 1 Credit****Course #3129AP**

*Prerequisite: Advanced Honors Algebra II*

Statistics is one of the most widely used types of mathematics in the professional world. Thus, this course is appropriate for any student preparing to exit high school, and will provide a solid foundation for future study. Furthermore, the course will cover all topics included in a college-level statistics class. The emphasis of this course will be done through investigation of meaningful problems individually or in cooperative groups, while using appropriate technology. Topics include representing and describing various data and distributions, designing and evaluating statistical studies, and working with random variables and probability. Students who complete this course will be encouraged to take the AP exam in May for possible college credit.

**ADVANCED HONORS MULTIVARIABLE CALCULUS: 1 Credit****Course #21203A**

*Prerequisite: Successful completion AP Calculus AB or AP Calculus BC, and a recommendation from the AP Calculus teacher.*

This course places a strong emphasis on problem solving, primarily in a pure mathematical context, but sometimes oriented towards problems in the sciences, engineering, and economics. The class will have some lecture, but the majority of class time will be spent with the teacher as the facilitator. Discussion, collaborative groups, and activities are all important components in this course. Students are encouraged to express and justify their ideas and work. The methods used in class promote an atmosphere of questioning, exploration, and enthusiasm for mathematics. Students are expected to work collaboratively in order to collectively come up with a solution. There is an expectation that students are responsible for keeping up with assignments.

# SCIENCE

## **ADVANCED HONORS BIOLOGY I: 1 Credit**

### **Course #3210A**

Advanced Honors Biology I is a one-credit, two semester course designed for students who intend to major in a science related field or show strong interest in the subject. This course covers the same material as Honors Biology I at a faster pace and with more depth. The students who successfully complete this course will have the foundation necessary for success in Advanced Placement Biology.

## **HONORS BIOLOGY I: 1 Credit**

### **Course #3210H**

Biology I Honors is a course that introduces students to the world of living things. Using the inquiry approach, students will investigate basic life processes, interdependence and interactions, genetics, diversity of organisms, and other biological themes. This course builds on ethical decision-making. The student will be expected to demonstrate high skills in reading, writing and the ability to operate independently and as a group member, both in regular classroom operations and special assignments. Students will be expected to operate in a technology and laboratory rich environment.

## **AP BIOLOGY: 1 Credit (Grades 10-12)**

### **Course #3217AP**

*Prerequisites: Biology I and Chemistry I*

Advanced Placement Biology is a college-level course for highly motivated students with a high aptitude for science. The course allows the student to investigate specialty areas of biology. The College Board AP program provides the curriculum and course description. Studies will include molecules and cells, heredity and evolution, and organisms and populations. Students will be prepared to take the Advance Placement Examination at the conclusion of the course.

## **ADVANCED HONORS CHEMISTRY I: 1 Credit**

### **Course #3221A**

Advanced Honors Chemistry I is a one-credit, two semester course designed for students who intend to major in a science related field or show strong interest in the subject. This course covers the same material as Honors Chemistry I at a faster pace and with more depth. The students who successfully complete this course will have the foundation necessary for success in Advanced Placement Chemistry.

## **HONORS CHEMISTRY I: 1 Credit**

### **Course #3221H**

Honors Chemistry is a one-credit, two-semester course. This laboratory course will make chemical concepts understandable and demonstrates the importance of chemistry in everyday applications. Students will learn scientific thinking skills for real-life problem solving.

## **HONORS BIOLOGY II: 1 Credit**

### **Course # 3216H**

Biology II is a *laboratory science course* in which students engage in an in-depth study of the principles of biology. This course emphasizes internal and external anatomical structures and their functions, the environmental interaction of organisms, processes of living things, mechanisms that maintain homeostasis, biodiversity, and changes in life forms over time. Students explore biological concepts through an inquiry approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Cells, Interdependence, Flow of Matter and Energy, Heredity, Biodiversity and Change, Comparative Anatomy and Physiology, and Botany.

## **HONORS CHEMISTRY II: 1 Credit**

### **Course # 3224H**

Pre-requisites: 85% or higher in Honors Chemistry I or Advanced Honors Chemistry I and Algebra II. Honors Chemistry II is a laboratory science course that builds on topics introduced in Honors Chemistry I. This course investigates chemical bonding and how the kinetic molecular theory and intermolecular forces explain the physical and chemical characteristics of matter. Additional aspects of chemical reactions including limiting reactants, percent yield, equilibrium, reaction rates, and thermochemistry are considered. Students explore chemistry concepts through an inquiry-based approach. Embedded standards for Inquiry, Mathematics, and Technology & Engineering are taught in the context of the content standards for Structure of Matter, States of Matter, and Reactions.

## **AP CHEMISTRY: 1 Credit**

### **Course #3225AP**

*Prerequisites: 90% or higher in Advanced Honors Chemistry and Advanced Honors Algebra or taking Advanced Honors concurrently--with permission of instructor.*

Advanced Placement Chemistry is based upon the College Board's curriculum and is the equivalent of a first year college chemistry course. The second year chemistry class will utilize the first year chemistry course content as a foundation for discussion of these following complex topics: chemical kinetics, equilibrium, thermodynamics, electrochemistry, materials science, buffer systems, coordination complexes, nuclear chemistry, organic chemistry, and biochemistry.

**AP PHYSICS I: ALGEBRA BASED: 1 Credit****Course # 3238AP**

*Prerequisite: Algebra II*

AP Physics I focuses on the big ideas typically included in the first semester of an algebra-based, introductory college-level physics sequence and provides students with enduring understandings to support future advanced course work in the sciences. Through inquiry-based learning, students will develop critical thinking and reasoning skills. Students will cultivate their understanding of physics as they explore: kinematics and dynamics, circular motion, gravitation, harmonic motion, impulse, momentum, collisions, work, energy, rotational motion. We will also cover electrostatics, DC circuits, mechanical waves and sound.

**AP PHYSICS II: ALGEBRA BASED: 1 Credit****Course # 3239AP**

*Prerequisites: AP Physics I & Pre-Calculus or concurrent enrollment in Pre-Calculus.*

AP Physics 2 focuses on the big ideas typically included in the second semester of an algebra-based, introductory college-level physics sequence and provides students with enduring understandings to support future advanced course work in the sciences. Through inquiry-based learning, students will develop critical thinking and reasoning skills. Students will cultivate their understanding of physics as they explore: thermodynamics, ideal gases, kinetic theory, fluids, electrostatics, DC circuits, magnetism, electromagnetism, optics, quantum physics, atomic, and nuclear physics.

**AP PHYSICS C MECHANICS: 1 Credit****Course # 3240AP**

*Prerequisites: Physics and currently taking calculus.*

Physics C: Mechanics will provide instruction in: 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.

**AP PHYSICS C ELECTRICITY AND MAGNETISM: 1 Credit****Course # 3234AP**

*Prerequisites: Physics and currently taking calculus.*

AP Physics C: Electricity and Magnetism will provide instruction in: electrostatics; conductors, capacitors and dielectrics; electric circuits; magnetic fields; and electromagnetism.



**AP ENVIRONMENTAL SCIENCE: 1 Credit**  
**Course # 3236AP**

The AP Environmental Science course is designed to be the equivalent of a one semester, introductory college course in environmental science. Unlike most other introductory-level college science courses, environmental science is offered from a wide variety of departments, including geology, biology, environmental studies, environmental science, chemistry, and geography. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. It is recommended that prior to taking the AP Environmental Science course students should have completed two years of laboratory science (typically biology and chemistry) as well as one year of algebra. Prospective AP students should also have the ability to read and synthesize texts quickly. They should also be able to articulate through writing their understanding of concepts and to justify their claims based on evidence. Typically, the most successful students are highly motivated and enter the class with the broadest and deepest backgrounds in science and math. Because of these prerequisites, students usually take the course in their junior or senior year.

**HONORS ORGANIC CHEMISTRY I: 1 Credit**  
**Course # 3226H**

*Prerequisites: Biology I & Chemistry I*

Description: Guided and open inquiry investigations into basic chemical and biological principles. Follows the four national science standards of laboratory research including: forming a question or hypothesis, designing an investigation, collecting and presenting data, and analyzing and interpreting results. Semester will culminate with an individual/group investigation and presentation.

# SOCIAL STUDIES

## **AP HUMAN GEOGRAPHY: 1 Credit**

**Course #3450AP**

**Grades 9-12**

AP Human Geography helps students analyze the world and their relationship with it. They learn to look for geographic causes for events in different regions, to compare geographic features and their effects on human life, and see how their lives are connected to, and affected by, human and geographic conditions all over the globe. In this course, students write, read, discuss, and present issues of global and local importance in ways that will work their brains. AP Human Geography helps students be a part of the solution to the challenges facing humanity on Earth in the 21st Century.

## **AP EUROPEAN HISTORY: 1 Credit**

**Course # 3441AP**

**Grades 10-12**

*Prerequisite: Instructor approval required to enroll.*

This course is designed to provide students with basic analytical skills necessary to develop rational, high cognitive skills. These skills are applied to the principal European historic, economic, social, geographic, and political themes. Students have the option of taking the nationwide Advanced Placement Examination administered by the College Board.

## **AP PSYCHOLOGY: 1 Credit**

**Course #3447AP**

**Grades 10-12**

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology.

## **AP WORLD HISTORY: 1 Credit**

**Course #3449AP**

**Grades 10-12**

*Prerequisite: Instructor approval required to enroll.*

This course is designed for the accelerated student who wishes to place greater emphasis upon historical analysis, writing, research, and documentary study. AP World History covers more than 10,000 years worth of history and utilizes a truly global approach to the human record. Students are expected to take the nationwide Advanced Placement Exam administered by the College Board.

**HONORS CONTEMPORARY ISSUES: 1 Credit****Course #3435H****Grade 12**

Students will use inquiry skills to examine the issues that impact the contemporary world. Included in the course will be analysis of the historical, cultural, economic, and geographic factors that have raised certain issues to levels of concern in our nation and around the globe. Students will engage in research and problem solving in order to better understand and assess significant current issues.

**AP U.S. HISTORY: 1 Credit****Course #3440AP****Grades 11-12**

This course is designed to be a college-level approach to the study of history. The course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and material in U. S. History. Admission to the course is supervised by Guidance with consideration being given to such credentials as high aptitude scores and/or outstanding grade records. Students who complete the AP course are encouraged to take the College Board AP exam in the spring.

**HONORS U.S. HISTORY: 1 Credit****Course #3405H****Grades 10-12**

Students will use a variety of skills for historical and geographical analysis as they examine American history since Reconstruction with special attention to Tennessee connections in history, geography, politics, and people. Students will continue to learn fundamental concepts in civics, economics, and geography within the context of United States history. The reading of primary source documents is a key feature of United States history standards. Finally, students will focus on current human and physical geographic issues important in contemporary America and the global society.

**ADVANCED HONORS POSITIVE PSYCHOLOGY: 1 Credit****Course #9350APP****Grades 11-12**

*Prerequisite: Passing score on the AP Psychology test and Instructor approval required to enroll.*

Positive Psychology uses the scientific method in efforts to assess, understand, and foster the characteristics that make life most worth living. This course is designed to be a continuation of themes learned in AP Psychology with an emphasis on research, then linking these themes to the topic of human flourishing to provide students with a better understanding of the benefits of Psychology. The course will also focus on current research in neuroscience and abnormal psychology. Students taking the course will be required to conduct and present their own research in the social science field.

**HONORS ANTHROPOLOGY: 1 Credit****Course #TBA**

This course is an introduction to anthropology as a whole and will present students with a theoretical grounding in the four major subfields: archaeology, biological anthropology, cultural anthropology, and linguistics. The class will emphasize the holistic nature of the discipline and challenge students with some of the countless links between the systems of biology and culture, including the exploration of key questions about human diversity in the past, present, and future. Through the comparative study of different cultures, the class will explore fundamental questions about what it means to be human. It will seek to understand how culture shapes societies, from a small village in Brazil to the largest Asian metropolis, as well as how it affects the way institutions work, from scientific laboratories to Christian mega-churches. This course will provide a framework for analyzing diverse facets of human experience such as gender, ethnicity, language, politics, economics, and art.

**HONORS DUAL CREDIT SOCIOLOGY: 1/2 Credit****Course #4271H****Grades 10-12**

Sociology is the study of social groups and their behavior. This will include the study of shifts in population, delinquency and crime, marriage and family, and other aspects of our culture. The emphasis of this subject is placed on social groups instead of the individual.

**AP MICROECONOMICS: 1/2 Credit****Course #3443AP****Grades 11-12**

As the name implies, AP Microeconomics will focus on economic decision-making on a smaller scale. It studies principles of economics that apply to the individual decision makers, both producers and consumers, within the economic system. It will also analyze the nature and function of product (goods) and factor (resources) markets and the role of government in promoting efficiency and equity in the economy.

**AP MACROECONOMICS: 1/2 Credit****Course #3444AP****Grades 11-12**

AP Macroeconomics studies the principles of economics on a large scale by analyzing an entire country's economy or an entire sector of an economy, such as all producers or all consumers. The course places particular emphasis on studying national income measures such as GDP and the price-level (inflation or deflation). It also examines the different theories on how the government or the banking system can correct a country's economy through fiscal and monetary policy. International economic topics such as free trade will also be studied.

**AP U.S. GOVERNMENT & POLITICS: 1/2 Credit**

**Course #3445AP**

**Grades 11-12**

AP US Government examines the institutions of government and the political processes by which we participate in our government. Students will be required to analyze data from charts and graphs, apply political theory to current events, and synthesize information from various units of study.

**AP COMPARATIVE GOVERNMENT: 1/2 Credit**

**Course #3446AP**

**Grades 11-12**

AP 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. Six countries will be studied in depth-- China, Great Britain, Iran, Mexico, Nigeria, and Russia. Topics and themes in the course include the sources of public authority and political power around the world, the comparative study of the relationship between citizens and state including individual participation, political and institutional frameworks, political change over time, and an examination of comparative political theory.

**HONORS LAW IN AMERICAN SOCIETY: 1/2 Credit**

**Course #TBA**

**Grades 11-12**

In Law and American Society, students will be introduced to the American legal system, both Tennessee state courts and federal court. Topics will include: development of the American legal system, structure of the courts, US constitutional law, criminal law, civil law (torts, property, business, family), administrative law, and rules of evidence and procedure. While students will gain knowledge of legal content through lecture, readings, and discussion, they will also learn through simulations of trial and appellate courts and by job shadowing. Upon completion, students will be prepared for entering a pre-law program in the post-secondary setting.

# WORLD LANGUAGES

## CHINESE

### **HONORS MANDARIN CHINESE I: 1 Credit**

#### **Course #3091H**

This course provides a fundamental introduction to Mandarin Chinese, including pinyin and character background, pronunciation, grammar, tones, and Chinese characters.

### **HONORS MANDARIN CHINESE II: 1 Credit**

#### **Course #3092H**

*Prerequisite: Honors Mandarin Chinese I*

This course focuses on pinyin and character review, pronunciation, grammar, tones, and simplified Chinese characters. This course enables students to gain cultural understanding as well as improve their writing and speaking abilities.

### **ADVANCED HONORS MANDARIN CHINESE III: 1 Credit**

#### **Course #3142A**

*Prerequisite: Honors Mandarin Chinese II*

Students continue learning Mandarin Chinese by focusing on pinyin and character review, pronunciation, grammar, tones, and simplified Chinese characters. Students gain enhanced cultural understanding and language mastery.

### **ADVANCED HONORS MANDARIN CHINESE IV: 1 Credit**

#### **Course #3143A**

*Prerequisite: Honors Mandarin Chinese III*

Students continue developing their skills in Mandarin Chinese through listening, speaking, reading, and writing. This course focuses on advanced development and use of pronunciation, grammar, tones, simplified Chinese characters, and cultural understanding.

# FRENCH

## **HONORS FRENCH I: 1 Credit**

### **Course #3041H**

French I is an introduction to the language and culture of the French people. This course's primary foci are oral and reading comprehension. This is a very interactive class that involves storytelling, questioning and answering, reading/translation, and reading comprehension. Although instruction is given solely in English, much of the classes are spent in *comprehensible, simple* French. There will also be songs, games, and other activities to aid in the acquisition of French. At the end of the year, students should achieve fluency with the vocabulary that we have covered.

This course will include lessons on the geography of France, much about the culture of the French people, and a survey of French authors.

## **HONORS FRENCH II: 1 Credit**

### **Course #3042H**

*Prerequisite: Honors French I*

French II is a continuation of French I. Students will expand on their acquisition of the French language structures introduced in French I. Like French I, this is an interactive class that involves storytelling, questioning and answering, reading/translation, and reading comprehension. Although instruction is given solely in English, much of the classes are spent in *comprehensible* French. There will still be songs, games, and other activities to aid in the acquisition of French. At the end of the year, students should achieve fluency with the vocabulary that we have covered.

This course will include lessons on French authors, artists, and politicians as well as information about the history of France.

## **ADVANCED HONORS FRENCH III: 1 Credit**

### **Course #3043A**

*Prerequisite: Honors French II*

The focus of French III will be on speaking. Students will continue progression in the French language by engaging in creative, interactive activities including skits, storytelling, and other projects. The class will also include reading comprehension, translation, and writing in French. Students will read French literature, including poems, songs, and short stories and comment on them in French.

## **ADVANCED HONORS FRENCH IV: 1 Credit**

### **Course #3044**

*Prerequisite: Honors French III*

This course provides a review of French III concepts and places emphasis on French history and literature. Students must be capable of working independently and be self-disciplined.

**AP FRENCH LANGUAGE: 1 Credit**

**Course #3045AP**

*Prerequisite: Advanced Honors French III*

This course reviews and expands course work from the first three years. The emphasis of this course will be to prepare for the AP French Language Examination. The content of this course will be dictated by the College Board “acorn book” on AP French.



# GERMAN

## **HONORS GERMAN I: 1 Credit**

### **Course #3051H**

Students will develop basic skills for communicating in German: Listening, reading, writing, and speaking. The focus will be on vocabulary acquisition and learning the basics of German grammar and sentence structure. Among other things pictures, role playing, word activities, and videos are used to develop this focus. Students are also introduced to the culture of the German-speaking countries.

## **HONORS GERMAN II: 1 Credit**

### **Course #3052H**

*Prerequisite: Honors German I*

This level continues the skill development begun in German I. Vocabulary and grammar are expanded so that students can further develop their conversational and reading skills. Students continue to gain knowledge and understanding of the German culture as well as the geography of the German-speaking countries. Many of the same instructional methods will be employed with one or two writing projects being incorporated.

## **ADVANCED HONORS GERMAN III: 1 Credit**

### **Course #3053A**

*Prerequisite: Honors German II*

In German III students increase their reading and writing skills while continuing to improve their speaking and listening skills. Knowledge of German grammar is honed and vocabulary acquisition continued. Students learn to exchange information in German with accuracy and within an authentic cultural context. At this level, students are expected to commit to primarily communicating through German within the classroom. The Honors level of German III is also intended to prepare students for success in AP and/ or college level German. German III students will be expected to read a book in German over the summer preceding German III Advanced Honors.

## **ADVANCED HONORS GERMAN IV 1 Credit**

### **Course #3054A**

*Prerequisite: Honors German III*

The German IV course extends the student's development in listening, speaking, reading, and writing skills. An emphasis is placed on German culture, including literature and history as well as music and film from German-speaking countries.

**AP GERMAN LANGUAGE: 1 Credit**  
**Course #3055AP**

The purpose of this course is to hone listening, speaking, reading and writing skills in preparation for the AP exam. The content will include a thorough review of grammar in addition to more advanced language structures, with strong emphasis on conversational and reading skills. Reading selections will be varied and taped listening activities will be used to enhance pronunciation and listening skills. Students will be given varied texts and other materials with which to work in class, but will also be expected to work through some AP prep materials from the College Board over the summer preceding AP German IV.

# LATIN

## **HONORS LATIN I: 1 Credit**

### **Course #3031H**

Students are introduced to the classical world through the study of Latin vocabulary, grammar, and translation, as well as Roman history, culture, and mythology. Students in this course will benefit from an increased understanding of English composition and derivatives.

## **HONORS LATIN II: 1 Credit**

### **Course #3032H**

*Prerequisite: Honors Latin I*

Latin II enhances the skills learned in Latin I. There is continued emphasis on Roman culture, mythology, and history. Students begin translating Latin literature in the second semester.

## **ADVANCED HONORS LATIN III: 1 Credit**

### **Course #3033A**

*Prerequisite: Honors Latin II*

The third year student is immersed in selected works of classical authors with an emphasis on the Golden Age of Roman literature.

## **ADVANCED HONORS LATIN IV: 1 Credit**

### **Course #3034A**

*Prerequisite: Honors Latin III*

Students will read selections from the works of Vergil, Caesar, Cicero, and other early Roman authors. Literary analysis and poetry scansion are part of this study. This class will provide students with a deeper understanding of the language using authentic tense from the Roman Republic and Empire.

## **AP LATIN: 1 Credit**

### **Course #3036AP**

*Prerequisite: Advanced Honors Latin III*

AP Latin course revisions promote reading Latin poetry and prose with historical and literary sensitivity. Students are encouraged to develop linguistic skills by engaging in multiple activities, including translating poetry and prose from the required-reading list, precisely and literally; reading passages of poetry and prose with comprehension; and analyzing literary texts in clear, coherent written arguments, supported by textual examples. AP Latin is roughly equivalent to an upper-intermediate college or university course (AP College Board). The focus of the course includes passages from Caesar and Vergil as well as other authors that are to be sight read during the actual AP test.

# SPANISH

## **HONORS SPANISH I: 1 Credit**

### **Course #3021H**

This course consists of an introduction to the Spanish language and culture. The exercises are designed to develop skills in reading, writing, listening, and speaking Spanish. Proficiency in the language is developed through a variety of methods including songs, games, speaking, listening, reading, and writing activities.

## **HONORS SPANISH II: 1 Credit**

### **Course #3022H**

*Prerequisite: Honors Spanish I*

This course consists of additional Spanish grammar and developing proficiency in the basic skills. Emphasis is placed on pronunciation and reading comprehension. The cultural materials are presented in an effort to close the communication gap between the English and Spanish-speaking people.

## **ADVANCED HONORS SPANISH III: 1 Credit**

### **Course #3023A**

*Prerequisite: Honors Spanish II*

This course consists of additional Spanish grammar and concentrates on developing proficiency in speaking skills. Emphasis is placed on conversation, creative writing, and Spanish literature.

## **ADVANCED HONORS SPANISH IV: 1 Credit**

### **Course #3024A**

*Prerequisite: Advanced Honors Spanish III*

Spanish IV further develops proficiency in writing, listening and speaking skills. Short stories and condensed novels are read and discussed in Spanish. Emphasis is placed on creative thinking and oral comprehension.

## **AP SPANISH LANGUAGE: 1 Credit**

### **Course #3025AP**

*Prerequisite: Advanced Honors Spanish III*

This course reviews and expands course work from the first three years. The emphasis of this course is to prepare for the AP Spanish Language Examination. This course is dictated by the AP College Board curriculum focusing on the three communicative modes: Interpersonal, Interpretive, and Presentational with focus on speaking and writing in the target language at an advanced level.

**AP SPANISH LITERATURE & CULTURE: 1 Credit**  
**Course #3026AP**

*Prerequisite: Previously completed four years of Spanish.*

The AP Spanish Literature and Culture course is designed to provide the student with a learning experience equivalent to that of an introductory college course in literature written in Spanish. The course introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. The course provides the opportunity to demonstrate proficiency in Spanish across the three modes of communication (interpersonal, interpretive, and presentational) and the five goal areas (communication, cultures, connections, comparisons, and communities).

The overarching aims of the course are to provide ongoing and varied opportunities to further develop proficiencies across the full range of language skills—with special attention to critical reading and analytical writing—and to encourage students to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish.

## OTHER ELECTIVES

### **INTERDISCIPLINARY ACT/SAT PREP: ½ Credit**

#### **Course #9350**

Students will complete activities which pertain to a review and progression of mathematics and English as they apply to the material.

### **DIRECTED STUDY: 0 Credit**

#### **Course #9605**

Directed Studies provides an opportunity during the school day for students to complete assignments, make up work, get help from teachers, or work/read independently. Students are expected to work the entire period. Students do not receive a credit for this course.

## **DUAL ENROLLMENT**

**\*Students must be 11<sup>th</sup> or 12<sup>th</sup> grade, have a minimum 3.0 GPA, and a minimum ACT composite of 22.**

**Please refer to separate dual enrollment course descriptions derived directly from the respective university. These courses are subject to change each year due to student demand and university availability.**