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DEPARTMENT OF ENGLISH/LANGUAGE ARTS

ENGLISH I 3001

1 credit

Open to 9

The English I course is designed to provide an opportunity for students to improve upon competencies in reading, writing, research, speaking, and listening through the use of a variety of diverse literary selections. Teaching units and reading selections will include but are not limited to short stories, non-fiction, logic, informational text, research, heroism, drama, and poetry. Students will continue to acquire the fundamentals of grammar and will broaden their vocabulary. Students will develop their abilities with language and communication through reading, writing, listening, and speaking.

A state end-of-course exam is required at the end of the second semester. It counts for 25% of second semester grade.

ENGLISH I/ HONORS 3001HN

1 credit

Open to 9

The Honors English I course is based upon the same general description as English I. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document.

NOTE: A mandatory summer reading assignment, which is required for all students in Honors English I, is counted in the first nine-weeks grade. Each teacher will provide specific details.

ENGLISH II 3002

1 credit

Open to 10

This course is a survey of literature using selections from world literature. Genres studied include short stories, informational text, non-fiction, drama, poetry, and novels. Writing, grammar, research, and logic are integrated into the curriculum with attention given to persuasive and research writing.

A state end-of-course exam is required at the end of the second semester. It counts for 25% of second semester grade.

ENGLISH II/ HONORS 3002HN

1 credit

Open to 10

Honors English II is based upon the same general description as English II. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document

NOTE: A mandatory summer reading assignment, which is required for all students in Honors English II, is counted in the first nine-weeks grade. Each teacher will provide specific details.

ENGLISH III 3003

1 credit

Open to 11

The English III course stresses a chronological study of the development of American literature. Students will focus on the historical and authorial background of many literary pieces with a strong focus on the analysis of informational text. English III will continue to address the students' reading, writing, viewing, logic, speaking, and listening skills. Students will also focus on applying and enhancing the grammar and vocabulary skills previously learned. Several biographies, short stories, poems, and dramatic pieces will be analyzed. Extensive writing assignments, including a research paper, are central to this course. Students will focus on persuasive writing to prepare for the mandatory TCAP Writing Assessment given early in second semester. The TCAP Writing Assessment score becomes part of the student's permanent record. This course will also prepare students for the Language and Reading portions of the ACT test given in March.

A state end-of-course exam is required at the end of the second semester. It counts for 25% of second semester grade.

ENGLISH III/ HONORS 3003HN

1 credit

Open to 11

The Honors English III course is based upon the same general description as English III. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document.

NOTE: A mandatory summer reading assignment, which is required for all students in Honors English III, is counted in the first nine-weeks grade. Each teacher will provide specific details.

ADVANCED PLACEMENT [AP] ENGLISH LANGUAGE AND COMPOSITION 3013 1 credit

Open to 11,12

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. Each student will be required to take the AP assessment created by the College Entrance Examination Board. The cost of the exam is determined by the College Board.

All AP courses are based upon a common foundation of information from the College Board's AP program itself, the State of Tennessee, and the Clarksville-Montgomery County School System. This essential information is located in the Advanced Placement [AP] section on pages xiv-xv of this document.

***NOTE:** A mandatory summer reading assignment, which is required for all students in AP English Language and Composition, is counted in the first nine-weeks grade. Each teacher will provide specific details.*

ENGLISH IV 3005 **1 credit** **Open to 11**
English IV is a historical survey of British literature from ancient to modern times. Readings include fiction, poetry, drama, and informational text. Some readings are full-length. In addition to careful reading, analysis of text, and connections to the historical context, students will also refine their language, writing, communication, logic, media, and research skills. A major research project is required in English IV. A senior capstone/culminating project may be required in some schools.

ENGLISH IV/ HONORS 3005HN **1 credit** **Open to 12**
Honors English IV is based upon the same general description as English IV. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document.

***NOTE:** A mandatory summer reading assignment, which is required for all students in Honors English IV, is counted in the first nine-weeks grade. Each teacher will provide specific details.*

ADVANCED PLACEMENT [AP] ENGLISH LITERATURE AND COMPOSITION 3014 **1 credit** **Open to 12**
An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Each student will be required to take the AP assessment created by the College Entrance Examination Board. The cost of the exam is determined by the College Board.

All AP courses are based upon a common foundation of information from the College Board's AP program itself, the State of Tennessee, and the Clarksville-Montgomery County School System. This essential information is located in the Advanced Placement [AP] section on pages xiv-xv of this document.

***NOTE:** A mandatory summer reading assignment, which is required for all students in AP English Literature and Composition, is counted in the first nine-weeks grade. Each teacher will provide specific details.*

DUAL ENROLLMENT ENGLISH IV 3005DU **1 credit** **Selected 12**
During the first semester of dual enrollment English, students read selected texts, benefiting from the diverse perspectives presented, and analyze rhetorical patterns, audience awareness, and writer's purpose. Throughout the course, students learn to examine their own composing process and to explore various rhetorical and linguistic options. While the traditional forms of academic composition – exposition, analysis, and persuasion – are emphasized, students will be given opportunities to experiment with a variety of other writing forms. Students will compose a minimum of five essays and a formal research paper.

During the second semester of dual enrollment English, students will study argumentative and analytical writing. As students learn about the advanced methods of composition, they will apply those methods to the critical analysis and explication of literature in four essays. Students will further demonstrate their critical writing skills using the elements of persuasion, resource evidence, and advanced methods of research in the culminating course essay. **6 college credits may be awarded. Students must have ACT score of 19 in both English and Reading subscores to enroll in the class and to meet Nashville State Community College entrance requirements.**

SPEECH 3015 **1 credit** **Open to 9,10,11,12**
Speech fosters the development of skills to generate ideas, research topics, organize information, and prepare for oral presentations. This class focuses on interpersonal communication and public speaking. Units of study include building confidence, effective listening, interviewing skills, group dynamics, career and family communication issues, and informative, persuasive, and special occasion speaking. In order to become a more effective communicator, students will prepare ideas in an organized format, speak clearly with confidence and poise, and listen critically to others. This course will prepare students for the interpersonal/speech communication course required at most colleges and universities.

CREATIVE WRITING 3012 **1 credit** **Open to 9,10,11,12**
This course will allow students to use additional writing experiences to promote self-expression, to explore various writing styles, and to strive for variety in diction, sentence structure, and format. Students will be expected to develop fluency, logic, clarity, and creativity, while writing for a variety of modes and audiences. This course will focus on the steps of the writing process while utilizing technology.

DEPARTMENT OF MATHEMATICS

ALGEBRA I 3102

1 credit

Open to 9

Algebra I develops the properties of the real number system, working with both numerals and variables, and is designed to direct the student's thinking from concrete to abstract. Subject areas include linear and quadratic equations, inequalities, polynomials, graphing, functions, probability/statistics, and rational expressions. The use of technology is essential to the student's understanding of core concepts in this course.

A state end-of-course exam is required at the end of the second semester. It counts for 25% of second semester grade.

GEOMETRY 3108

1 credit

Open to students meeting prerequisites

Prerequisite: Algebra I

Geometry provides the strengthening of algebraic skills through applications in geometric situations. Subject areas include logic, measurement, geometric patterns, coordinate geometry, two and three dimensional figures, transformation geometry, congruence, right triangle trigonometry, probability/statistics, and similarity. The use of technology is essential to the student's understanding of core concepts in this course.

GEOMETRY/ HONORS 3108 HN

1 credit

Open to students meeting prerequisites

Prerequisites: Algebra I and Teacher Recommendation

Honors Geometry is based upon the same general description as Geometry. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document.

ALGEBRA II 3103

1 credit

Open to students meeting prerequisites

Prerequisites: Algebra I and Geometry

Algebra II reinforces and further develops topics studied in Algebra I and Geometry. Subject areas include rational, irrational, and complex numbers, along with an introduction to analytical geometry, logarithms, probability/statistics, and unit circle trigonometry. The use of technology is essential to the student's understanding of core concepts in this course.

A state end-of-course exam is required at the end of the second semester. It counts for 25% of second semester grade.

ALGEBRA II/ HONORS 3103HN

1 credit

Open to students meeting prerequisites

Prerequisites: Algebra I, Geometry, and Teacher Recommendation

Honors Algebra II is based upon the same general description as Algebra II. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document.

BRIDGE MATHEMATICS 3181

1 credit

Open to 12

Prerequisites: Algebra I, Geometry, and Algebra II

Students scoring 19 or higher on the math sub-score of the ACT may NOT be enrolled in this course.

The intention of Bridge Mathematics is to enable students to enter the workplace or a college-level mathematics course. Students will be reintroduced to essential math standards. Skills in this course should be developed in an environment that promotes learning beyond skill and drill techniques and should be introduced in conjunction with appropriate mathematical concepts. The use of technology is essential to the student's understanding of core concepts in this course.

SENIOR FINITE MATHEMATICS 3182

1 credit

Open to 12

Prerequisites: Algebra I, Geometry, and Algebra II

Senior Finite is designed to prepare students for both college and the workplace. This course will provide a foundation for students entering a general education mathematics course. Subject areas include numbers/operations, algebra, geometry/measurement, data analysis, statistics, and probability. The use of technology is essential to the student's understanding of core concepts in this course.

PRECALCULUS 3126

1 credit

Open to students meeting prerequisites

Prerequisites: Algebra I, Geometry, and Algebra II

PreCalculus is designed for the student planning to study in a math or science related field in college. Choosing PreCalculus indicates that the student intends to study calculus at the high school and/or college level. Subject areas include functions, triangle trigonometry, circular functions, inverse functions, harmonic motion, trigonometric identities, trigonometric equations, polar coordinates, complex numbers, vectors, logarithms, conics and sequences, series, and other fundamentals of advanced algebra. The use of technology is essential to the student's understanding of core concepts in this course. Students enrolling in PreCalculus should have scored at least a 22 on the math sub-score of the ACT.

PRECALCULUS/ HONORS 3126HN 1 credit Open to students meeting prerequisites

Prerequisites: Algebra I, Geometry, Algebra II, and Teacher Recommendation

Honors PreCalculus is based upon the same general description as PreCalculus. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document.

AP CALCULUS AB 3127 1 credit Open to students meeting prerequisites

Prerequisites: PreCalculus and Teacher Recommendation

AP Calculus AB is primarily concerned with developing the student's understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Subject areas include functions, graphs, limits, derivatives, and integrals. The use of technology is essential to the student's understanding of core concepts in this course. Each student will be required to take the AP assessment created by the College Entrance Examination Board. The cost of the exam is determined by the College Board.

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DEPARTMENT OF SCIENCE

PHYSICAL SCIENCE 3202 1 Credit Open to 9 - 12

Physical Science is a study of basic principles of physics and chemistry and builds the foundation to be successful in other science classes. Students investigate physical science concepts through an inquiry-based approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Energy, Matter, Motion, and Forces.

PHYSICAL WORLD CONCEPTS 3237 1 Credit Open to 9 only

Physical World Concepts is a laboratory science course that examines the interactions between matter and energy. Students explore physics concepts through an inquiry-based approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Mechanics, Thermodynamics, Waves and Optic, Electricity and Magnetism, and Nuclear Science. Students completing this course should plan to take Chemistry 3221RGC in 10th and Biology 3210RGC in 11th to complete their graduation requirements.

BIOLOGY I 3210 1 credit Open to selected 9, 10, 11, 12

Prerequisites: Physical Science, Physical World Concepts, or Chemistry

Biology I is a laboratory science course that investigates the relationship between structure and function from molecules to organisms and systems, the interdependence and interactions of biotic and abiotic components of the environment, and mechanisms that maintain continuity and lead to changes in populations 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, and Biodiversity and Change.

A state end-of-course exam is required at the end of the second semester. It counts for 25% of second semester grade.

BIOLOGY I/ HONORS 3210HN 1 credit Open to selected students

Biology I Honors is based upon the same general description as Biology I. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document.

BIOLOGY (Conceptual Biology) 3210RGC 1 credit Open to 11 only

Prerequisites: Physical World Concepts and Chemistry 3221RGC

The course is designed to incorporate techniques, information and methods that students have been exposed to in chemistry and physical world concepts to better understand biological interactions and processes. This conceptual Biology covers the same standards as Biology I but the students' understanding of biology content is developed through the use of inquiry-based modeling techniques including: 1) development of a mental model of a concept through a key lab; 2) student centered learning through discussion 3) refinement of the model through problem solving on problem solving on worksheets and additional experimentation; and 4) multiple representations to provide multiple access points.

A state end-of-course exam is required at the end of the second semester. It counts for 25% of second semester grade.

CHEMISTRY I 3221 **1 credit** **Open to 10, 11, 12**

Prerequisites: Physical science or PWC, Biology I, Algebra I

Chemistry I is a laboratory science course in which students investigate the composition of matter and the physical and chemical changes it undergoes. Students use science process skills to study the fundamental structure of atoms, the way atoms combine to form compounds, and the interactions between matter and energy. 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 atomic structure, matter and energy, and interactions of matter.

CHEMISTRY I/ HONORS 3221HN **1 credit** **Open to 10, 11, 12**

Chemistry I Honors is based upon the same general description as Chemistry I. Every honors course expands upon the standard course, as described in the Honors Courses section on pages xiv-xv of this document.

CHEMISTRY 3221RGC (Conceptual Chemistry) **1 credit** **Open to 10**

Prerequisites: Successful completion of Physical World Concepts

Conceptual chemistry covers topics included in introductory inorganic chemistry but the pacing and teaching/learning strategies are different from those used in Chemistry I. Students work in cooperative groups designing and implementing experiments, analyzing results, and communicating findings. Students develop an understanding of a series of particle models of increasing complexity to answer: 1) What is matter? 2) How does matter behave? 3) What is the role of energy in the changes of matter?

PHYSICS 3231 **1 Credit** **Open to 11, 12**

Prerequisites: Physical Science or Physical World Concepts; Algebra II or Pre-Calculus

Physics is a laboratory science course that examines the relationship between matter and energy and how they interact. This course will have a strong emphasis in the mathematics of physics. Students explore physics concepts through an inquiry approach. Embedded standards for Inquiry, Technology & Engineering, and Mathematics are taught in the context of the content standards for Mechanics, Thermodynamics, Waves and Sound, Light and Optics, Electricity and Magnetism and Atomic & Nuclear Science.

HUMAN ANATOMY AND PHYSIOLOGY 3251 **1 credit** **Open to 11, 12**

Prerequisites: Biology I and Chemistry I

This course is a laboratory science course that includes an in-depth study of the body systems that maintain homeostasis from anatomical, physiological, and histological perspectives. Subject matter includes protection support, and movement, integration and regulation, transportation, absorption and excretion, reproduction, and growth and development. The course includes embedded inquiry, technology and engineering standards.

AP BIOLOGY 3251 **1 credit** **Open to selected 11,12**

Prerequisites: Successful completion of Biology 1 and Chemistry 1

This course is designed to be the equivalent of a college introductory biology course. It aims to provide students with the conceptual framework and analytical skills necessary to deal critically with the rapidly changing science of biology and follows the curriculum outline from the College Board. Each student will be required to take the AP assessment created by the College Entrance Examination Board. The cost of the exam is determined by the College Board.

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AP PHYSICS B 3233 **1 Credit** **Open to selected 11, 12**

Prerequisites: Physical Science, Physical World Concepts; Algebra II or Pre-Calculus

This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry. Each student will be required to take the AP assessment created by the College Entrance Examination Board. The cost of the exam is determined by the College Board.

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DEPARTMENT OF SOCIAL STUDIES

WORLD GEOGRAPHY 3410 **1 credit** **Open to 9, 10, 11, 12**

This course examines the spatial organization of people, places, and environments at local, regional, and national levels. Students will study world cultures, physical geography, forms of government, and types of economies. The course requires the ability to analyze maps and spatial data in order to understand global historical and contemporary issues.

WORLD HISTORY 3401 1 credit Open to 9, 10, 11, 12

This course examines the history of humankind with a focus from the Renaissance to present day. Students will study the causes and consequences of the following historical eras and themes: Renaissance, Reformation, Absolutism, Colonialism, Imperialism, Nationalism, The World Wars, The Cold War, and Globalization. The course requires analysis of primary and secondary historical sources.

AP EUROPEAN HISTORY SINCE 1450 3441 1 credit Open to 10, 11, 12

This course introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history (b) an ability to analyze historical evidence and historical interpretation (c) an ability to express historical understanding in writing. Each student will be required to take the AP assessment created by the College Entrance Examination Board. The cost of the exam is determined by the College Board.

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PERSONAL FINANCE 3496 ½ credit Open to 10, 11, 12

This course is designed to address the basics of money and income management. Students will learn how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include income, money management, spending, credit, saving, and investing. Students will design personal and household budgets; simulate use of checking and savings accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. The course provides a foundational understanding for making informed personal financial decisions.

UNITED STATES HISTORY 3405 1 credit Open to 11

In this course, students will study United States History beginning with the westward expansion after the Civil War. The course covers the following units: Industrialization and the Gilded Age, the Progressive Era, Imperialism, World War I, the 1920's, the Great Depression, World War II, the Cold War, the Civil Rights Movement, and modern America. Students will utilize the different methods that historians use to interpret the past, including points of view and historical context.

A state end-of-course exam is required at the end of the second semester. It counts for 25% of second semester grade.

AP UNITED STATES HISTORY 3440 1 credit Open to 11

This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Each student will be required to take the AP assessment created by the College Entrance Examination Board. The cost of the exam is determined by the College Board.

All AP courses are based upon a common foundation of information from the College Board's AP program itself, the State of Tennessee, and the Clarksville-Montgomery County School System. This essential information is located in the Advanced Placement [AP] section on pages xiv-xv of this document.

DUAL ENROLLMENT UNITED STATES HISTORY 1 credit Selected 11

This course follows the curriculum of United States History with high-level analytical thinking at the college level. Students will earn 1 high school honors credit as well as three hours of college credit upon completion of the course. A minimum PLAN score or ACT score is required in order to be admitted to Nashville State Community College. **Only those students meeting the eligibility requirements for Nashville State Community College (NSCC) and who enroll with NSCC will be admitted to the class.** In May, students' attainment of the skills addressed in the course will be assessed through an End of Course test.

ECONOMICS 3431 ½ credit Open to 12

This course helps students learn to make wise choices in using their economic resources. Emphasis is placed on the organization of the free enterprise system and how consumer choices affect such things as inflation, employment, gross national product, taxes,

SPANISH III **3023** **1 credit** **Open to 10-12**
Prerequisite: Spanish II and Teacher recommendation is required
The emphasis is on speaking and a complete study of grammar. Reading and writing skills are expanded. Some Latin American countries are studied. Some independent work is required.

SPANISH IV **3024** **1 credit** **Open to 11, 12**
Prerequisite: Spanish III and Teacher recommendation is required
The emphasis is on grammar, reading, and writing, as well as, some audio-lingual activities. Students study the culture of Spanish-American countries. Independent work is required and reading skills are emphasized.

DEPARTMENT OF FINE ARTS

One credit of a fine art is required for all students.

ART I 3501 **1 credit** **Open to 9-12**
This course is a basic introduction to two and three-dimensional art with emphasis on elements of art, principles of design, and art history. Topics included are: drawing, painting, and sculpture.

ART II 3502 **1 credit** **Selected 10-12**
Prerequisite: Art I
This course of study has continued emphasis on the elements of art and principles of design. Students experiment with a variety of media and techniques in drawing, painting, sculpture, and printmaking. **Teacher recommendation is required.**

ART III 3503 **1 credit** **Selected 11-12**
Prerequisite: Art II
This class is a study of specialized methods and materials in painting, printing, sculpture, and drawing. **Teacher recommendation is required.**

ART IV 3504 **1 credit** **Selected 12 Prerequisite: Art III**
This class is recommended for all college-bound art students. Various areas of art will be covered with students specializing in one or more areas. **Teacher recommendation is required.**

ADVANCED PLACEMENT STUDIO ART 3506 **1 credit** **Selected 12**
Prerequisite: Art III and Teacher recommendation is required
Highly motivated students will follow the College Board curriculum guidelines and submit a portfolio for evaluation at the end of the school year. **Students enrolled in this course must take the College Board AP Studio Art Exam in May for possible college credit.**

GRAPHIC DESIGN I 3502 **1 credit** **Open to 10-12**
Prerequisite: Art I and Teacher recommendation is required
This course is structured for students to become skilled in design for print forms for visual information. The curriculum will cover computer manipulation of photography, typography, illustration, layout and 3-D modeling. **Teacher recommendation is required.**

GRAPHIC DESIGN II 3502 **1 credit** **Open to 10-12**
Prerequisite: Art III (GRAPHIC DESIGN I)
This course is a continuation of Graphic Design I with an emphasis on building the existing skills of the student. **Teacher recommendation is required.**

VOCAL MUSIC 1: GENERAL CHORUS 3531RA **1 credit** **Open to 9-12**
This course incorporates all types of choral music as well as music reading and performance. Historical perspectives are also discussed regarding the music studied. Piano basics are taught in the spring semester. Uniform for this class is a choral department T-shirt and a black ensemble. **Four performances are required per year: Veteran's Day, Winter Concert, March Concert, and Spring Concert. Extra rehearsals for these concerts are required.**

VOCAL MUSIC 2: CONCERT CHOIR 3531RB **1 credit** **Selected 10-12**
Prerequisite: 1 year General Chorus and audition the spring preceding the class
Choral literature is explored more fully. A uniform is required. Emphasis in this course is on voice development. The course includes a more thorough study of the fundamentals of music reading, part-singing, and elementary theory.

VOCAL MUSIC 3: ENCORE 3531RC 1 credit Selected 10-12

Prerequisite: Audition the spring preceding the class

Encore consists of 18-24 female students in grades 10-12. They are selected by an audition camp in the spring semester to be considered for this class. Along with four concerts, there may be other performances in the community. Performance practices are stressed in this class as well as dancing techniques. Uniforms and extra rehearsals are also required. Beginning choir is suggested, but not mandatory as a prerequisite for this class.

VOCAL MUSIC 4: CARNIVAL 3531RD 1 credit Selected 10-12

Prerequisite: Audition the spring preceding the class

Twenty to twenty-eight students are selected through an audition camp in the spring. Carnival participates in concerts, performances, and competitions throughout the year, both on campus and in the community. Contemporary, rock, jazz, and accapella music are learned in the class. Advanced performance techniques and choreography are explored in this class. Music writings, music vocations, and audition techniques are also discussed. Uniform, performances, and extra rehearsals are *required*. General Chorus is suggested, but not a prerequisite for this class.

MUSIC HISTORY 3517 1 credit Open to 9-12

This course incorporates jazz, rock, pop, country, soul, rap, and Broadway music. Students develop listening skills and have an opportunity to listen to music from its origin to the present.

ADVANCED PLACEMENT MUSIC THEORY 3535 1 credit Selected 11-12

Prerequisite: 2 years performance ensemble experience: vocal or instrumental

This course is comparable in content and expected level of freshman college music theory. Topics covered integrate the study of melody, harmony, texture, rhythm, and form. **Students enrolled in this course must take the College Board AP Music Theory Exam in May for possible college credit. Teacher recommendation is required.**

MARCHING BAND/WIND ENSEMBLE 3530A 1 credit Selected 9-12

Prerequisite: Audition the spring preceding the class

During fall semester this group performs as the marching band and spring semester as the concert band. Instruction explores and further develops the fundamentals of music and musicianship. This group participates in numerous festivals, concerts, and competitions. *Attendance is required at all rehearsals, performances, and band camp. Teacher recommendation is required.*

MARCHING BAND/JAZZ BAND 3530B 1 credit Selected 9-12

Prerequisite: Audition the spring preceding the class

The course explores jazz, rock, and contemporary music. This group participates in numerous competitive festivals and concerts. A uniform may be required. *Attendance at all rehearsals, performances, and band camp is required. This ensemble participates with the marching band during the fall semester and with the symphonic band during the spring semester. Membership in this organization is for specific instrumentation. Teacher recommendation is required.*

MARCHING BAND/COLORGUARD 3530C 1 credit Selected 9-12

Prerequisite: By audition only: Students audition the spring preceding the class

This class includes all flag, rifles, sabers, and dance in conjunction with first semester marching band and second semester winter guard. Students will perform under all rules and regulations governing the band. The course will cover all basic fundamentals of "Corps Style" auxiliary units and the development of routines. *Attendance is required at all rehearsals, performances, and band camp. Teacher recommendation is required.*

MARCHING BAND/PERCUSSION ENSEMBLE 3530A 1 credit Selected 9-12

Prerequisite: By audition only: students audition the spring preceding the class

During fall semester this group performs as the marching band and spring semester as the concert percussion ensemble and winter percussion ensemble. Instruction explores and further develops the fundamentals of music and musicianship. This group participates in numerous festivals, concerts and competitions. *Attendance is required at all rehearsals, performances, and band camp. Teacher recommendation is required.*

CONCERT BAND 3530A 1 credit Open 9-12

Prerequisite: 1 year previous band experience OR private instruction

Concert band is a course for students who are unable to participate in marching activities. Concert band will perform in public concerts and band festivals. Emphasis is placed on solo and ensemble experience. **Attendance is required at all scheduled rehearsals and performances.**

THEATRE ARTS I 3520**1 credit****Open to 9-12**

This class is a basic introduction to theatre as an art form. Emphasis is on improvisation, pantomime, puppetry, theatre games, choreography, stage combat, basic design concepts, and the various disciplines involved in theatrical production. Students will also learn the basics of the audition process and scene study.

THEATRE ARTS II 3521**1 credit****Selected 10-12****Prerequisite: Theatre Arts I and student selection by audition in the spring**

The emphasis of this course is on scene study and developing the student actor. All students will be exposed to theatrical performances, theatre history, video production, and creating a role in a play. The students will also produce a 10-minute slide tape performance and perform in a one-act play.

THEATRE ARTS III 3522**1 credit****Selected 10-12****Prerequisite: Theatre I or II and interview/portfolio. Selection in the spring.**

The focus of this course is on the processes, techniques, terminology, and materials of technical theatre and theatre management. The students will create technical and theatre management requirements for production; organize and oversee work of a technical crew, team or staff; design and execute requirements for a design element of production; and explore career opportunities as a participant in dramatic production.

THEATRE ARTS IV 3523**1 credit****Selected 11-12****Prerequisite: Two years of theatre study. Students are selected *by audition* in the spring**

This course is open to the serious student of theatre. Emphasis is on performance, teaching of theatre, directing, video production, and dramatic theory. The student will perform a 30-minute solo performance.

DUAL ENROLLMENT THEATRE 3523DU**1 credit****Selected 12****Prerequisites: Theatre II, ACT English 19 or greater, ACT Reading 19 or greater**

This course is designed for those advanced experienced students of theatre who wish to earn dual credit in both high school and college. The curriculum focuses on acting, directing, research, design, criticism, playwriting, theory, and theatre management.

Private audition/portfolio and permission of instructor are required.

INDEPENDENT STUDY IN THEATRE 3523RG1**1 credit****Selected 12**

Designed for the student planning a career in theatre performance, design or tech. *Permission of theatre arts instructor and approval by CHS counseling and administration is required.*

VIDEO PRODUCTION I 3008RB1**1 credit****Selected 10-12 Prerequisite: Theatre I or Speech I**

The students will learn the principles of broadcast journalism and the technology of video cameras. They will also learn how to write, videotape, and edit a story for production. The focus of the class is on learning the equipment that is used as well as the skills needed to develop news, sports and entertainment packages from pre- to post-production. Final Cut Pro editing software, the Canon GL-2 and XL video cameras will be used for this class. **Students must receive recommendation from Theatre Arts or Speech teachers.**

VIDEO PRODUCTION II 3008RC1**1 credit****Selected 11-12****Prerequisite: Video Production I or Theatre III**

Students will actively engage in all aspects of producing live and taped news shows (*News on 92*) as writers, reporters, anchors, camera operators, technical director, and technicians. They will also periodically produce an entertainment program (*The Prowl*) as well as special projects requested by the administrative staff at CHS. **Students must apply in the spring. Selections will be based on audition, interviews, and teacher recommendations.**

DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION

One credit of Lifetime Wellness and ½ credit in Physical Education or two years of JROTC is required for graduation. The Physical Education credit may also be met by substituting a documented 66 hours of physical activity by participating in other school-sponsored activities, such as marching band, cheerleading, dance, interscholastic athletics, school sponsored intramural athletics, and/or other areas approved by the Board of Education.

LIFETIME WELLNESS 3303**1 credit****Open to 9-12**

This year long class combines Physical Education and Health each nine weeks. It is designed to help the student prepare mentally, physically, and socially. The major units taught during the first semester are co-ed football, pickleball, badminton, softball, golf, tennis, the Presidential Physical Fitness Test, aerobics, and jump rope. Second semester units are basketball, bowling, recreational games, volleyball, kickball, dancing, and Ultimate Frisbee. Written tests, running tests, along with daily participation grades are used to evaluate the students' daily progress each nine weeks. The health portion of this course covers the following areas: nutrition,

personal fitness, diseases and prevention, safety and first aid, sexuality, mental health, and substance use or abuse. Special focus is given to incorporating wellness into life by maintaining a healthy lifestyle during adolescence.

PHYSICAL EDUCATION I 3301RG3 ½ credit **Open to 10-12**
This class is developed as a recreational fitness class. Dual Sports and Individual Fitness Units will be written for student success. Participation, dressing, run tests, and completion of an individual fitness program encompass the course. Weight, height, and overall medical issues will be checked and recorded at beginning of course.

ELECTIVE P.E. 3301RG ½ credit **Open to 10-12**
Prerequisite: Must already have a full credit in Lifetime Wellness
First semester includes: golf, tennis, pickle ball, badminton, and football along with exercise/conditioning. Second semester consists of: volleyball, basketball, and bowling. There will also be run and skills tests included in the class.

WEIGHTS AND CONDITIONING 3301RG ½ credit **Selected 10-12**
Prerequisite: Must already have a full credit in Lifetime Wellness
Size of class is limited.
Permission of instructor is required.

JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC) DEPARTMENT

The Army JROTC program is a cooperative effort of the United States Army and the host institution to provide secondary school pupils opportunities for all-around development. The program provides excellent training opportunities in citizenship, management, supervision, leadership responsibilities and the opportunity for the exercise of authority and respect for school rules and law and order. Satisfactory completion of the program may lead to advanced placement credit in Senior ROTC of advanced rank in the active or reserve component of the Armed Forces. Cadets are required to wear their issued uniforms once each week and maintain appearance standards similar to those of active duty military personnel. Parents must sign the consent form issued by JROTC (Department of the Army) stating their dependent can meet the physical demands of the course. Cadets represent what is best in our society and carry on a long tradition of patriotism and a dedication to being good citizens. JROTC's mission is '*To Motivate Young People to Become Better Citizens*'.

Cadets may earn their varsity letter by participation in one of the following Extra-Curricular Activities and meeting the individual program's eligibility requirements: Drill Team, Color Guard or Raider Team. Individual schools may offer additional JROTC extra curricular activities.

- JROTC Course Substitution / Equivalency Credits:**
- JROTC (2 years) for Lifetime Wellness (1 credit) and Physical Education (.5 credit)
 - JROTC (3 years) for U.S. Government (.5 credit) and Personal Finance (.5 credit)

JROTC I 3331 **1 credit** **Open to 9, 10, 11 and selected 12**
This basic course consists of material from the six core JROTC units including: Citizenship in Action, Leadership Theory and Application, Foundation for Success, Wellness Fitness and First Aid, Geography and Earth Science, Citizenship in American History and Government in Action.

JROTC II 3332 **1 credit** **Open to 10, 11 and 12**
Prerequisite: JROTC I
This course continues with JROTC topics on an intermediate level.

JROTC III 3333 **1 credit** **Open to 11 and 12**
Prerequisite: JROTC II and JROTC Instructor Approval.
This course continues with JROTC topics on an applied level. In addition to normal classroom activities, cadets are assigned to leadership position within the Corps of Cadets. Cadet rank may be earned within the battalion through demonstrated leadership and participation within the program.

JROTC IV 3334 **1 credit** **Open to 11 and 12**
Prerequisite: JROTC III, JROTC Instructor Approval, and promotion to a staff or leadership position within the Battalion.
This course continues with JROTC topics on an advanced level.

ADDITIONAL ELECTIVES

ACT PREPARATORY COURSE 9350RX

1/2 credit

Open 10, 11, & 12

ACT Prep is a rigorous course that is designed to provide students with the opportunity to refine English, Math, Reading, and Science Reasoning skills in order to maximize proficiency on the ACT Exam. Students will undergo diagnostic testing to determine their beginning skill level before completing a series of targeted *A-Plus* lessons, which are designed to provide the necessary tutoring to prepare for mastery of ACT content. In addition, students will learn test-taking skills and will undergo frequent timed mini-tests to improve standardized testing performance. The ACT Prep course is open to all regular and honors 10th, 11th, and 12th grade students.

PEER MENTORING 9499SX

1 credit

Selected 11 and 12

This course is designed to enable students to develop peer relationships while acting as peer buddies and positive role models for students with special needs. The buddies will receive instruction about various types of disabilities and learning problems, instructional techniques for students with disabilities, and ideas on how to help increase the social skills, interactions, and participation of their peers with special needs in the day to day activities at their school and in their community. **Acceptance in this course is by application and interview.**

TEACHER'S AIDES 9310XX

No Credit

Open to 12

Seniors may aide for a teacher one period per day if all credits needed to graduate are in the process of being completed. Each teacher may have up to one aide per period. Students must meet certain criteria to include good behavior standards as well as GPA standards. To be a teacher's aide, students must have an 80% cumulative average to take advantage of this privilege. No credit will be awarded for this class. *Permission of instructor is required.*

EARLY DISMISSAL 9305XD

No Credit

Open to 12

Seniors may have early dismissal if all credits needed to graduate are in the process of being completed. Students must meet certain criteria to include good behavior standards as well as GPA standards. Students must have an 80% cumulative average to take advantage of this privilege. No credit will be awarded for this class.

SPECIAL EDUCATION

Students must be approved for this program through a Multidisciplinary Team (M-Team) and the Special Education Department.

RESOURCE

The students in this program receive individualized instruction for their appropriate needs. A variety of subjects are offered. Students in this program must be approved before they may register.

TRANSITION

Transition is helping students and families think about their life after high school and helps students identify long-range goals for themselves. Transition designs the high school experience to ensure that students gain the skills and connections they need to achieve these goals.

Specific courses within the Department of Special Education include:

- English (Language!, and Literary Transition)
- Math (Algebra I-A, Algebra I-B, Geometry I-A, and Geometry I-B)
- Science (Biology I-A, Biology I-B,)
- Life Centered Career Education (LCCE)
- Adaptive PE (designated for Life Skills students)
- Life Skills
- Inclusion services (offered in some regular education classes)
- Vocational Rehabilitation (Voc Rehab)

Career Technical Programs of Study at CHS

Career Cluster: Agriculture, Food & Natural Resources		Program of Study: Plant Systems-Landscaping and Turf Science	
Principles of Horticultural Sciences 5184	Credits: 1	Year - 1	
<i>Principles of Horticultural Sciences</i> introduces students to the vast areas of the horticulture industry. Topics include leadership, greenhouse management, garden center operations, floriculture, nursery operations, landscaping, and turf grass management. An introduction to plant and soil science is included as a necessary foundation to the success of today's horticulturalist.			
Landscaping and Turf Management 5163	Credits: 1	Year - 2	
<i>Landscaping and Turf Management</i> includes standards to prepare students for creating beautiful environments for homes and businesses. This course includes site analysis and preparation, landscape drawing, plant selection, and installation. Maintenance of healthy attractive landscapes and turf areas will be emphasized. With the increase of urban sprawl these career opportunities are increasing daily. Plant science and leadership skills taught in this class will prepare students to meet the demands of this exciting industry. (Not offered at NWHS this year)			
Greenhouse Management 5167	Credits: 1	Year - 3	
<i>Greenhouse Management</i> is designed to prepare a student to manage a greenhouse operation. Students in this class will learn to produce various ornamental crops and food crops. An understanding of structures, crop selection, and growing systems will be explored. As populations continue to expand, the importance of food production in a climate controlled environment increases. Today's agriculture students are preparing to meet the needs of a growing world.			
Plant Biotechnology 5175	Credits: 1	Year - 4	
<i>Plant Biotechnology</i> is a course that prepares students with interests in higher level, science based plant agriculture. Students enrolled in this course will study rigorous standards related to the principles of plant growth, cell structure and functions, heredity and genetics (molecular biology), plant breeding and improvement, hormones and growth regulators, chemical nature of plant life, flower structure and function, seed formation and germination, DNA and biotechnology, and emerging technologies. Students will use scientific investigation to determine a plant problem. FFA and supervised experience will be included as appropriate. (Not offered at CHS until 2013-2014)			

Career Cluster: Business Management & Administration		Program of Study: Business Financial Management & Accounting	
Computer Applications 3718	Credits: 1	Year - 1	
<i>Computer Applications</i> teaches students to use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the, historical, social and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production; accurate production analysis; management of information and design and presentation of a multimedia project.			
Accounting I 3779	Credits: 1	Year - 2	
Suggested Prerequisite: Algebra I Suggest Concurrent with: Algebra II or Geometry or permission of the accounting instructor			
<i>Accounting I</i> introduces concepts and principles based on a double-entry system of maintaining the electronic and manual financial records for a sole proprietorship, partnership and corporation. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements.			
Accounting II 3780	Credits: 1	Year - 3	
<i>Accounting II</i> is an advanced study of concepts, principles and techniques that build on the competencies acquired in Accounting I used in keeping the electronic and manual financial records of a sole proprietorship, partnership and corporation. Departmental, management, cost and not-for-profit accounting systems are explored.			
Business Management 3707	Credits: 1	Year - 4	
Students in <i>Business Management</i> will develop a foundation in the many activities, problems, and decisions that are intrinsic to the management of a successful business, as well as an appreciation for the importance of these responsibilities. Areas to be examined include business organization, ethical and legal responsibilities, communication, decision-making, personnel, safety, professional development and related careers. By gaining an understanding of these areas, students will be better prepared to enhance the business decisions of tomorrow.			

Career Cluster: Finance		Program of Study: Banking and Finance	
Computer Applications 3718	Credits: 1	Year - 1	
<i>Computer Applications</i> teaches students to use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the, historical, social and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production; accurate production analysis; management of			

information and design and presentation of a multimedia project.		
Accounting I 3779	Credits: 1	Year - 2
Suggested Prerequisite: Algebra I Suggest Concurrent with: Algebra II or Geometry or permission of the accounting instructor		
<i>Accounting I</i> introduces concepts and principles based on a double-entry system of maintaining the electronic and manual financial records for a sole proprietorship, partnership and corporation. It includes analyzing business transactions, journalizing, posting, and preparing worksheets and financial statements.		
Personal Finance 3766	Credits: ½	Year 3 – 1 st Semester
<i>Personal Finance</i> 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.		
OR		
Spreadsheet Applications 3729	Credits ½	Year 3 – 1 st Semester
<i>Spreadsheet Applications</i> involves the use of electronic worksheets used to perform business calculations. This course will apply keying, typography, layout, and design skills in designing worksheets, writing formulas, analyzing data, charting data, and managing data. Team development will also be stressed as students work on spreadsheet project(s). Student proficiency may lead to software certification.		
Financial Planning 3717	Credits: ½	Year 3 – 2 nd Semester
<i>Financial Planning</i> is a course designed to develop skills in the use of financial principles in making business decisions. Students will research job qualifications and employment opportunities in finance. The course includes a study of the allocation of financial resources, the effects of finance and credit institutions on the business community and the impact of financial decisions on the consumer market. Ethical issues will be presented in this course.		
Banking and Finance 3756	Credits: 1-2*	Year 3
<i>Banking and Finance</i> is a course designed to challenge the student with real banking and financial situations through a partnership with a local financial institution that would bring resources of mentors, seminars, and hands on experience with day-to-day operations. Completion of this course will provide students with a basis for secondary education in finance and special job skills in banking and financial institutions. Ethical issues will be presented in the course.		

Career Cluster: Human Services		Program of Study: Family and Community Services
Family and Consumer Sciences 5603	Credits: 1	Year - 1
<i>Family and Consumer Sciences</i> (FACS) is a comprehensive, foundation course designed to assist students in developing core knowledge and skills needed for successful life planning and management. Content includes human development; family and parenting education; resource management; housing and living environments; nutrition and foods; textiles and apparel; leadership development; and career preparation. A unique focus is on the management of families, work, and their interrelationships. The course provides a foundation for further study in specialized related career areas.		
Child and Lifespan Development 5625	Credits: 1	Year - 2
<i>Child and Lifespan Development</i> prepares students to understand the physical, social, emotional and intellectual growth and development throughout the lifespan. Experiences such as laboratory observations, job shadowing, service learning and laboratory participation will enhance the learning process. Instructional content includes child development theories and research; prenatal development; infants and toddlers; preschool years; middle childhood; adolescence; adulthood; geriatrics; death and dying; careers; and leadership, citizenship and teamwork.		
Nutrition and Foods 5609	Credits: 1	Year - 3
<i>Nutrition and Foods</i> is a specialized course designed to help students understand the nutrient value, appetite appeal, social significance and cultural aspects of food. Students will examine the role of nutrition in the prevention of health conditions, such as obesity, and the promotion of optimal body performance throughout the life span. The course offers students opportunities to develop skills in the safe and sanitary selection, preparation, storing, and serving of food; meal management to meet individual and family nutrition needs across the life span; and optimal use of food resources. Instruction includes academic integration and technology applications. Careers in nutrition and food industries will be explored.		
Life Connections 5623	Credits: 1	Year - 4
<i>Life Connections</i> is a course designed to assist students in making a successful transition from high school into the post high school environment. Students will be empowered to take action for the wellbeing of themselves and others as they effectively manage the roles and responsibilities created by family, career and community interactions. The role of communication in establishing and maintaining healthy interpersonal relationships is emphasized. Skills related to decision making, problem solving, critical and creative thinking, technology, and workplace readiness practiced in <i>Life Connections</i> will provide students with an understanding of how to plan for and manage careers in an ever changing workplace.		

Career Cluster: Human Services		Program of Study: Personal Care Services	
Principles of Cosmetology	5338	Credits: 1-2	Year - 1
<p><i>Principles of Cosmetology</i> is the first level of cosmetology, and it 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.</p>			
Design Principles of Cosmetology	5339	Credits: 2-3	Year - 2
<p><i>Design Principles of Cosmetology</i> is the second level of cosmetology and 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. Upon completion and acquisition of 600 hours, students are eligible to take the Tennessee Board of Cosmetology manicuring examination for a Tennessee Manicure License.</p>			
Chemistry of Cosmetology	5340	Credits: 2-3	Year - 3
<p><i>Chemistry of Cosmetology</i> is the advanced level of cosmetology and it 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. Upon completion and acquisition of 600 hours, students are eligible to take the Tennessee State Board of Cosmetology Manicuring examination for a Tennessee Manicuring License.</p>			

Career Cluster: Information Technology		Program of Study: Interactive Multimedia	
Computer Applications	3718	Credits: 1	Year - 1
<p><i>Computer Applications</i> teaches students to use a variety of computer software and hardware tools and features of an electronic information network. Students will explore the, historical, social and ethical issues of using computer technology. The students will develop skills that will assist them with efficient production; accurate production analysis; management of information and design and presentation of a multimedia project.</p>			
Interactive Multimedia Presentation	3746	Credits: 1	Year - 2
<p><i>Interactive Multimedia Presentation</i> teaches students to apply keying, typography, layout and design skills in this course. The student will be proficient in using interactive multimedia tools to develop electronic presentations. Creative design, persuasive communications, and language arts skills are applied through research, evaluation, validation, written, and oral communication. Typography, layout and design guidelines are applied. Copyright laws and ethical practices are reinforced in creating and formatting various presentations that require imported data/graphics, digital, audio, and video clips.</p>			
Desktop Publishing	3741	Credits: 1	Year - 3
<p><i>Desktop Publishing</i> teaches students to apply keying, formatting, typography, and layout and design skill in developing electronic publishing documents. The student will develop skills in electronic publishing design, layout, composition, and photo journalism. Content provides the opportunity to acquire marketable skills and to prepare for gainful employment and or entry into postsecondary education in the graphic communications industry. Laboratory facilities and experiences simulate those found in the graphic communications industry.</p>			
Advanced Computer Applications	3730	Credits: 1 - 2	Year: 4
<p><i>Advanced Computer Applications</i> is a capstone course in which students will learn necessary skills in problem solving using current and emerging integrated technology to include a variety of input technologies in the production of professional quality business documents and presentations. The course focuses on student choice, accountability, and performance. Students increase their employability by working toward the attainment of high-level skills in the areas of integrated software applications, communication skills, ethical issues, human relations, leadership, self-management, and workplace management. Students may choose areas of specialization and achieve industry certification in areas such as word processing, spreadsheet applications, multimedia presentations, schedule and contact management, etc.</p>			

Career Cluster: Manufacturing		Program of Study: Precision Productions	
Principles Of Engineering	3835	Credits – 1	Year – 1
<p><i>Principles of Engineering</i> is a course in which students explore the nature of engineering and the skills fundamental to all engineering fields, as well as the role of quality assurance and quality control procedures in manufacturing. Emphasis is placed on actual projects and presentations and the use of modern tools (e.g., CAD). The course can be enhanced by cooperation with local manufacturing facilities, which can provide real measurement data and opportunities for on-site visits to witness engineering tasks and projects, and quality-control data collection.</p>			
Principles of Manufacturing	3818	Credits: 1	Year – 2
<p><i>Principles of Manufacturing</i> focuses on the essential principles that must be mastered for a person to be effective in manufacturing production work. The course is intended for students more interested in production than engineering. The course covers customers, quality principles and processes, systems, information in the workplace, the business of manufacturing, and statistical process control.</p>			
Principles of Machining and Manufacturing	3819	Credits: 2	Year - 3
<p>Recommended Prerequisites: Algebra I</p> <p><i>Principles of Machining and Manufacturing</i> focuses on the concepts and practices that support careers in manufacturing, industrial maintenance, metrology, automation, industrial design, or industrial support. The course introduces the technology of machining and manufacturing processes. While working as team members, students will apply leadership and organizational skills relating to designing, producing, and maintaining a product. Emphasis is placed on quality control, codes and standards, and production systems.</p>			
Manufacturing Applications	3822	Credits: 2	Year - 4
<p>Recommended Prerequisites: Algebra I</p> <p><i>Manufacturing Applications</i> is a 12th-grade course for students interested in entering the workforce or pursuing higher education in the manufacturing area. The course requires students to solve problems in a real-world manufacturing context. Problems address critical areas identified by industry and supported by relevant national standards. The course is structured as a series of simulation units. The simulations require students to identify problems in a manufacturing company based on data supplied in typical management reports. Students work in teams of four to six. Teams test and refine proposed solutions with computer simulations. All teams work on the same problem concurrently. At the end of each unit, students present team findings and recommendations to the class and to a panel of manufacturing industry representatives, which acts as the board of directors.</p>			

CTE PROGRAMS OF STUDY FOR CLARKSVILLE HIGH SCHOOL	9TH	10TH	11TH	12TH
AGRICULTURE, FOOD & NATURAL RESOURCES PLANT SYSTEMS-- LANDSCAPING AND TURF SCIENCE	PRINCIPLES OF HORTICULTURE SCIENCES	LANDSCAPING AND TURF MANAGEMENT	GREENHOUSE MANAGEMENT	PLANT BIOTECHNOLOGY
BUSINESS MANAGEMENT & ADMINISTRATION BUSINESS FINANCIAL MANAGEMENT & ACCOUNTING	COMPUTER APPLICATIONS	ACCOUNTING I	ACCOUNTING II	BUSINESS MANAGEMENT
FINANCE BANKING AND FINANCE	COMPUTER APPLICATIONS	ACCOUNTING I	SPREADSHEET APPLICATIONS (1/2)/ FINANCIAL PLANNING (1/2)	BANKING AND FINANCE
HUMAN SERVICES FAMILY AND COMMUNITY SERVICES	FAMILY AND CONSUMER SCIENCES	CHILD AND LIFESPAN DEVELOPMENT	NUTRITION AND FOODS	LIFE CONNECTIONS
HUMAN SERVICES PERSONAL CARE SERVICES	PRINCIPLES OF COSMETOLOGY (9TH OR 10TH)	PRINCIPLES OF COSMETOLOGY (9TH OR 10TH)	DESIGN PRINCIPLES OF COSMETOLOGY	CHEMISTRY OF COSMETOLOGY
INFORMATION TECHNOLOGY INTERACTIVE MULTIMEDIA	COMPUTER APPLICATIONS	INTERACTIVE MULTIMEDIA PRESENTATION	DESKTOP PUBLISHING	ADVANCED COMPUTER APPLICATIONS
MANUFACTURING PRECISION PRODUCTION	PRINCIPLES OF ENGINEERING	PRICIPLES OF MANUFACTURING	PRINCIPLES OF MACHINING AND MANUFACTURING	MANUFACTURING APPLICATIONS

****Note: Grade levels courses are to be taken are ideal in nature. Some students may not be able to begin their Focused Elective Group in the ninth grade.**