

# Holmes High School



## Course Catalog 2021-2022

### Mission Statement:

To guide students to discover, pursue and connect to their post-secondary dreams.



# Holmes High School

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## Holmes High School Credit Requirements

*ALL graduating classes need 22 credits to graduate from Holmes High School.*

*Additionally, ALL students need to pass the Civics Exam administered in Social Studies Classes as well as receive instruction in Financial Literacy and Essential Workplace Skills which are embedded within curriculum taught in math and career courses.*

<b>Students must earn at total of 22 Credits</b>	
English	4 Credits
Mathematics	4 credits (A math course must be completed each year of high school)
Science	3 Credits
Social Studies	3 Credits
Physical Education	½ Credit
Health	½ Credit
Visual and Performing Arts	1 Credit
Electives	6 Credits

# SAMPLE GRADE LEVEL SCHEDULES

Outlined below are sample grade level schedules to assist in choosing classes.

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Math	Math	Math	Math
English	English	English	English
Science	Science	Science	Elective Choice
Social Studies	Social Studies	Social Studies	Elective Choice
CTE Pathway Year 1 Course	CTE Pathway Year 2 Course	CTE Pathway Year 3 Course	CTE Pathway Year 4 Course
Elective Choice	Elective Choice	Elective Choice	Elective Choice

***\*\*Requirements of Visual & Performing Arts and Health & PE should be factored in graduation requirements. \*\****

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# ENGLISH—Graduation requirement—a total of 4 English credits

## 230107—English 1A

**Grade Level:** 9

**Credits:** .5

**Course Description:** This course highlights the theme of Coming of Age. Students study the relationship between narrative voice and style, while analyzing literary and stylistic elements in film and literature. They develop persuasive writing skills by using rhetorical appeals. Performance and oral interpretation of literature builds students' speaking and listening skills. Students research and evaluate social, cultural, and historical influences on texts. Students evaluate their use of strategies by embedded instruction focused on improving reading skills through small-group instruction, computer enhanced instruction and exploratory learning.

## 230107—English 1B

**Grade Level:** 9

**Credits:** .5

**Course Description:** This course highlights the theme of Coming of Age. Students study the relationship between narrative voice and style, while analyzing literary and stylistic elements in film and literature. They develop persuasive writing skills by using rhetorical appeals. Performance and oral interpretation of literature builds students' speaking and listening skills. Students research and evaluate social, cultural, and historical influences on texts. Students evaluate their use of strategies by embedded instruction focused on improving reading skills through small-group instruction, computer enhanced instruction and exploratory learning.

## 230110—English 2A

**Grade Level:** 10

**Credit:** .5

**Prerequisite:** English 1

**Course Description:** This course focuses on the concept of culture and community and examines how these influences shape identity and perspective. Students read and analyze works of world literature, with emphasis on analysis of how stylistic choices and rhetorical elements shape tone in persuasive and argumentative text, both print and non-print. Students develop their independent learning skills as they respond to opportunities for self-evaluation with embedded instruction focused on improving reading skills through small-group instruction, computer enhanced instruction and exploratory learning.

## 230110—English 2B

**Grade Level:** 10

**Credit:** .5

**Prerequisite:** English 1

**Course Description:** This course focuses on the concept of culture and community and examines how these influences shape identity and perspective. Students read and analyze works of world literature, with emphasis on analysis of how stylistic choices and rhetorical elements shape tone in persuasive and argumentative text, both print and non-print. Students develop their independent learning skills as they respond to opportunities for self-evaluation with embedded instruction focused on improving reading skills through small-group instruction, computer enhanced instruction and exploratory learning.

## 230113—English 3A

**Grade Level:** 11

**Credit:** .5

**Prerequisite:** English 2

**Course Description:** English 3 focuses on American fiction and nonfiction. Students research historical and contemporary texts as they consider the impact of the American Dream on life today and on personal thinking. Students will write in a variety of modes—personal essays, opinions and editorials, credos, reflective self-evaluation, speeches, satire, dramatic scripts, surveys, literary analyses, and research projects.

## 230113—English 3B

**Grade Level:** 11

**Credit:** .5

**Prerequisite:** English 2

**Course Description:** English 3 focuses on American fiction and nonfiction. Students research historical and contemporary texts as they consider the impact of the American Dream on life today and on personal thinking. Students will write in a variety of modes—personal essays, opinions and editorials, credos, reflective self-evaluation, speeches, satire, dramatic scripts, surveys, literary analyses, and research projects.

*More English course offerings continued on next page.*

**230164—IB English Literature A (IB English 3A)****Grade Level:** 11**Credit:** .5**Prerequisites:** English 2

**Course Description:** This course develops understanding of the techniques involved in literary criticism and promotes the ability to form independent literary judgments. In this course, the formal analysis of texts and wide coverage of a variety of literature—both in the language of the subject and the translated texts from other cultural domains—is combined with a study of the way literary conventions shape responds to texts. *This course requires summer assignments.*

**230164—IB English Literature B (IB English 3B)****Grade Level:** 11**Credit:** .5**Prerequisites:** English 2

**Course Description:** This course develops understanding of the techniques involved in literary criticism and promotes the ability to form independent literary judgments. In this course, the formal analysis of texts and wide coverage of a variety of literature—both in the language of the subject and the translated texts from other cultural domains—is combined with a study of the way literary conventions shape responds to texts. *This course requires summer assignments.*

**230166—AP Language and Composition A****Grade Level:** 11-12**Credit:** .5**Prerequisites:** English 2

**Course Description:** The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. College credit is earned with a qualifying score on an AP exam.

**230166—AP Language and Composition B****Grade Level:** 11-12**Credit:** .5**Prerequisites:** English 2

**Course Description:** The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. College credit is earned with a qualifying score on an AP exam.

**230167—AP Literature and Composition A****Grade Level:** 11-12**Credit:** .5**Prerequisites:** English 2

**Course Description:** The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. College credit is earned with a qualifying score on an AP exam.

**230167—AP Literature and Composition B****Grade Level:** 11-12**Credit:** .5**Prerequisites:** English 2

**Course Description:** The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. College credit is earned with a qualifying score on an AP exam.

*More English course offerings continued on next page.*

**230116—English 4A****Grade Level:** 12**Credit:** .5

**Course Description:** English IV focuses on world literature, both fiction and nonfiction. Students research historical and contemporary texts. Students will write in a variety of modes—personal essays, opinions and editorials, credos, reflective self-evaluation, speeches, satire, dramatic scripts, surveys, literary analyses, and research projects.

**230116—English 4B****Grade Level:** 12**Credit:** .5

**Course Description:** English IV focuses on world literature, both fiction and nonfiction. Students research historical and contemporary texts. Students will write in a variety of modes—personal essays, opinions and editorials, credos, reflective self-evaluation, speeches, satire, dramatic scripts, surveys, literary analyses, and research projects.

**230165—IB English Language & Literature A (IB English 4A)****Grade Level:** 12**Credit:** .5**Prerequisites:** IB English 3A&B SL

**Course Description:** This course aims to develop skills of textual analysis and the understanding that texts, both literary and non-literary, can relate to culturally determined reading practices, and to encourage students to question the meaning generated by language and texts. An understanding of the ways in which formal elements are used to create meaning in text is combined with an exploration of how that meaning is affected by reading practices that are culturally defined and by the circumstances of production and reception. Helping students to focus closely on the language of studied texts and to become aware of the role of wider context in shaping meaning is central to the course. The study of literature in translation from other cultures is especially important to IB Diploma Program students because it contributes to a global perspective. Texts are chosen from a variety of sources, genres, and media.

**230165—IB English Language & Literature B (IB English 4B)****Grade Level:** 12**Credit:** .5**Prerequisites:** IB English 3A&B SL

**Course Description:** This course aims to develop skills of textual analysis and the understanding that texts, both literary and non-literary, can relate to culturally determined reading practices, and to encourage students to question the meaning generated by language and texts. An understanding of the ways in which formal elements are used to create meaning in text is combined with an exploration of how that meaning is affected by reading practices that are culturally defined and by the circumstances of production and reception. Helping students to focus closely on the language of studied texts and to become aware of the role of wider context in shaping meaning is central to the course. The study of literature in translation from other cultures is especially important to IB Diploma Program students because it contributes to a global perspective. Texts are chosen from a variety of sources, genres, and media.

**230511—Creative Writing A****Grade Levels:** 11-12**Credit:** .5

**Course Description:** Students will use mentor texts to model various forms of creative writing from poetry to creative essays. Students will have the opportunity to analyze and create works such as short stories, one-act plays, poetry and/or personal, expressive pieces.

**230511—Creative Writing B****Grade Levels:** 11-12**Credit:** .5

**Course Description:** Students will use mentor texts to model various forms of creative writing from poetry to creative essays. Students will have the opportunity to analyze and create works such as short stories, one-act plays, poetry and/or personal, expressive pieces.

**239111—Journalism A****Grade Levels:** 10-12**Credit:** .5

**Course Description:** In this course, students would be introduced to the basics of journalism. Students will begin by learning the history of journalism and learn how periodical writing differs from traditional writing in English Class. The ultimate objective of this course would be preparing students to begin publishing and writing for a Holmes High School student-led Newspaper.

*More English course offerings continued on next page.*

**239111—Journalism B****Grade Levels:** 10-12**Credit:** .5

**Course Description:** In this course, students would be introduced to the basics of journalism. Students will begin by learning the history of journalism and learn how periodical writing differs from traditional writing in English Class. The ultimate objective of this course would be preparing students to begin publishing and writing for a Holmes High School student-led Newspaper.

**231011—Public Speaking A****Grade Levels:** 10-12**Credit:** .5

**Course Description:** This course will expose students to research, preparation, delivery, and analysis of extemporaneous, demonstrative, persuasive (including debate and forensic techniques) and informative oral communications.

**231011—Public Speaking B****Grade Levels:** 10-12**Credit:** .5

**Course Description:** This course will expose students to research, preparation, delivery, and analysis of extemporaneous, demonstrative, persuasive (including debate and forensic techniques) and informative oral communications.

**230168—IB Theories of Knowledge A****Grade Levels:** 11**Credit:** .5

**Course Description:** Theory of Knowledge (TOK) is a course about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. It plays a special role in the Diploma Program by providing an opportunity for students to reflect on the nature of knowledge, to make connections between areas of knowledge and to become aware of their own perspectives and those of the various groups whose knowledge they share.

**230168—IB Theories of Knowledge B****Grade Levels:** 12**Credit:** .5

**Course Description:** Theory of Knowledge (TOK) is a course about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. It plays a special role in the Diploma Program by providing an opportunity for students to reflect on the nature of knowledge, to make connections between areas of knowledge and to become aware of their own perspectives and those of the various groups whose knowledge they share.

# MATH—Graduation requirement—a total of 4 Math Courses

## 270304--Algebra 1A

Grade Level: 9

Credit: .5

**Course Description:** This course is the foundation for all future math courses. Topics include solving various types of equations, solving linear inequalities, proportions, graphing relations, functions, inequalities, elementary statistics and probability, solving systems of equations and polynomials. Additional topics to be covered include preliminary concepts, simplifying expressions, linear equations, quadratic equations, systems of equations, exponent rules and scientific notation and geometry.

## 270304--Algebra 1B

Grade Level: 9

Credit: .5

**Course Description:** This course is the foundation for all future math courses. Topics include solving various types of equations, solving linear inequalities, proportions, graphing relations, functions, inequalities, elementary statistics and probability, solving systems of equations and polynomials. Additional topics to be covered include preliminary concepts, simplifying expressions, linear equations, quadratic equations, systems of equations, exponent rules and scientific notation and geometry.

## 270401—Geometry A

Grade Levels: 9-10

Credit: .5

**Prerequisite: Algebra 1**

**Course Description:** This course is a study of two- and three-dimensional geometry including definitions, postulates, theorems and measurement. The coordinate plan will be emphasized with distance, midpoint and slope, plus linear equations involving parallel and perpendicular lines. Triangles will be a concentration point with congruency, similarity, special properties, angle thumb theorem and right triangle trigonometry. Special properties of polygons will be covered along with areas, perimeters of polygons and circumference of circles, volumes and transformations. Additional topics to be covered include preliminary concepts, simplifying expressions, linear equations, quadratic equations, systems of equations, exponent rules and scientific notation and geometry.

## 270401—Geometry B

Grade Levels: 9-10

Credit: .5

**Prerequisite: Algebra 1**

**Course Description:** This course is a study of two- and three-dimensional geometry including definitions, postulates, theorems and measurement. The coordinate plan will be emphasized with distance, midpoint and slope, plus linear equations involving parallel and perpendicular lines. Triangles will be a concentration point with congruency, similarity, special properties, angle thumb theorem and right triangle trigonometry. Special properties of polygons will be covered along with areas, perimeters of polygons and circumference of circles, volumes and transformations. Additional topics to be covered include preliminary concepts, simplifying expressions, linear equations, quadratic equations, systems of equations, exponent rules and scientific notation and geometry.

## 270311—Algebra 2A

Grade Levels: 10-12

Credit: .5

**Prerequisite: Geometry**

**Course Description:** This course involves a review and extension of introductory algebra, graphing, writing linear equations, solving systems of equations. Students also study algebraic concepts and processes such as matrices, quadratics and complex numbers, polynomials, radicals, rational expressions, conics, logarithms and sequences and series, both arithmetic and geometric.

## 270311—Algebra 2B

Grade Levels: 10-12

Credit: .5

**Prerequisite: Geometry**

**Course Description:** This course involves a review and extension of introductory algebra, graphing, writing linear equations, solving systems of equations. Students also study algebraic concepts and processes such as matrices, quadratics and complex numbers, polynomials, radicals, rational expressions, conics, logarithms and sequences and series, both arithmetic and geometric.

*More Mathematics course offerings continued on next page.*

**270309—Mathematics Intervention A****Grade Level:** 12**Credit:** .5

**Course Description:** This course is for students who need additional time and support or for students in mathematics at the high school level who could benefit from enrichment. This course includes support for all high school mathematics courses.

**270309—Mathematics Intervention B****Grade Level:** 12**Credit:** .5

**Course Description:** This course is for students who need additional time and support or for students in mathematics at the high school level who could benefit from enrichment. This course includes support for all high school mathematics courses.

**270704 Integrated Math 4 A****Grade** 12**Credit:** .5

**Course Description:** An integrated approach to high school mathematics is typically seen internationally and consists of a sequence of four courses depending on school's curriculum; each course includes number, algebra, geometry, probability and statistics and is no less rigorous than a traditional pathway of Algebra 1, Geometry, Algebra 2 and Pre-Calculus. This course is the fourth year of an integrated mathematics sequence and should address the remaining required standards not included in Integrated 3 and the (+) standards included in the Kentucky Academic Standards. This course contains modeling standards.

**270704 Integrated Math 4 B****Grade** 12**Credit:** .5

**Course Description:** An integrated approach to high school mathematics is typically seen internationally and consists of a sequence of four courses depending on school's curriculum; each course includes number, algebra, geometry, probability and statistics and is no less rigorous than a traditional pathway of Algebra 1, Geometry, Algebra 2 and Pre-Calculus. This course is the fourth year of an integrated mathematics sequence and should address the remaining required standards not included in Integrated 3 and the (+) standards included in the Kentucky Academic Standards. This course contains modeling standards.

**270512—IB Mathematics A****Grade Levels:** 11-12**Credits:** .5**Prerequisites:** Geometry

**Course Description:** This course focuses on introducing important mathematical concepts through the development of mathematical techniques. The intention is to introduce students to these concepts in a comprehensible and coherent way, rather than insisting on the mathematical rigor required for mathematics higher level. Students should, wherever possible, apply the mathematical knowledge they have acquired to solve realistic problems set in an appropriate context. College credit is earned with a qualifying score on an IB exam.

**270512—IB Mathematics B****Grade Levels:** 11-12**Credits:** .5**Prerequisites:** Geometry

**Course Description:** This course focuses on introducing important mathematical concepts through the development of mathematical techniques. The intention is to introduce students to these concepts in a comprehensible and coherent way, rather than insisting on the mathematical rigor required for mathematics higher level. Students should, wherever possible, apply the mathematical knowledge they have acquired to solve realistic problems set in an appropriate context. College credit is earned with a qualifying score on an IB exam.

*More Mathematics course offerings continued on next page.*

### **270501—Pre-Calculus A**

**Grade Levels:** 11-12

**Credit:** .5

**Prerequisites:** Geometry

**Course Description:** This course is designed to assist students to attain the concepts necessary to be successful in a Calculus course, and AP Calculus course or a College Calculus course. Objectives for this course should include, but are not limited to: solve equations and inequalities involving polynomial, rational, exponential, and logarithmic and trigonometric functions, understand and apply the behavior and properties of polynomial, rational, exponential, logarithmic, and trigonometric functions, use technology to solve and graph various types of equations and inequalities and prove trigonometric identities. Standard for this course may also include the (+) standards denoted in the Kentucky academic standards document.

### **270501—Pre-Calculus B**

**Grade Levels:** 11-12

**Credit:** .5

**Prerequisites:** Geometry

**Course Description:** This course is designed to assist students to attain the concepts necessary to be successful in a Calculus course, and AP Calculus course or a College Calculus course. Objectives for this course should include, but are not limited to: solve equations and inequalities involving polynomial, rational, exponential, and logarithmic and trigonometric functions, understand and apply the behavior and properties of polynomial, rational, exponential, logarithmic, and trigonometric functions, use technology to solve and graph various types of equations and inequalities and prove trigonometric identities. Standard for this course may also include the (+) standards denoted in the Kentucky academic standards document.

### **270604—AP Statistics A**

**Grade Levels:** 11-12

**Credit:** .5

**Prerequisites:** Geometry

**Course Description:** This course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. College credit is earned with a qualifying score on an AP exam.

### **270604—AP Statistics B**

**Grade Levels:** 11-12

**Credit:** .5

**Prerequisites:** Geometry

**Course Description:** This course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. College credit is earned with a qualifying score on an AP exam.

### **080719—Personal Finance A**

**Grade Levels:** 12

**Credits:** .5

**Course Description:** This course is designed to provide students with the knowledge and skills to manage one's financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, investments and retirement planning, beyond what was addressed in the student's foundational courses. A Personal Finance (Math Credit) course may include, but is not limited to, topics found in the (+) standards of the KAS for Mathematics.

### **080719—Personal Finance B**

**Grade Levels:** 12

**Credits:** .5

**Course Description:** This course is designed to provide students with the knowledge and skills to manage one's financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, investments and retirement planning, beyond what was addressed in the student's foundational courses. A Personal Finance (Math Credit) course may include, but is not limited to, topics found in the (+) standards of the KAS for Mathematics.

# SCIENCE—Graduation requirement—a total of 3 credits required

## **303091—Integrated Science 1A**

**Grade Levels:** 9

**Credit:** .5

**Course Description:** This lab-based introductory course is organized based on the topical structure contained in the Kentucky Academic Standards for Science. Integrated Science I included listed within the topics of: Structure and Properties of Matter, Chemical Reactions, Structure and Function, Interdependent Relationships in Ecosystems, and Earth's Systems.

## **303091—Integrated Science 1B**

**Grade Levels:** 9

**Credit:** .5

**Course Description:** This lab-based introductory course is organized based on the topical structure contained in the Kentucky Academic Standards for Science. Integrated Science I included listed within the topics of: Structure and Properties of Matter, Chemical Reactions, Structure and Function, Interdependent Relationships in Ecosystems, and Earth's Systems.

## **302601—Biology 1A**

**Grade Levels:** 10

**Credit:** .5

**Course Description:** This course is designed to cover cellular and body structure, basic knowledge and functions of living organisms with an emphasis on the study of cells, their organelles, mitosis, meiosis, DNA, and genetics. Interdependence of organisms will be investigated as well as matter, energy and organization in living systems.

## **302601—Biology 1B**

**Grade Levels:** 10

**Credit:** .5

**Course Description:** This course is designed to cover cellular and body structure, basic knowledge and functions of living organisms with an emphasis on the study of cells, their organelles, mitosis, meiosis, DNA, and genetics. Interdependence of organisms will be investigated as well as matter, energy and organization in living systems.

## **304521—Chemistry 1A**

**Grade Levels:** 11-12

**Credit:** .5

**Prerequisite:** Biology

**Course Description:** This course focuses on problem solving techniques; bonding; equilibrium; equations. Students develop a conceptual understanding of chemistry content, outlined in the Kentucky Academic Standards.

## **304521—Chemistry 1B**

**Grade Levels:** 11-12

**Credit:** .5

**Prerequisite:** Biology

**Course Description:** This course focuses on problem solving techniques; bonding; equilibrium; equations. Students develop a conceptual understanding of chemistry content, outlined in the Kentucky Academic Standards.

*More Science course offerings continued on next page.*

**304524—IB Chemistry SL A****Grade Level:** 11**Credit:** .5

**Course Description:** This course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. It also allows students to develop interpersonal and information technology skills, which are essential to life in the 21<sup>st</sup> century. Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyze results and evaluate and communication their findings.

**304524—IB Chemistry SL B****Grade Level:** 11**Credit:** .5

**Course Description:** This course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. It also allows students to develop interpersonal and information technology skills, which are essential to life in the 21<sup>st</sup> century. Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyze results and evaluate and communication their findings.

**304524—IB Chemistry HL A****Grade Level:** 12**Credit:** .5**Prerequisites:** IB Chemistry SL

**Course Description:** This course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. It also allows students to develop interpersonal and information technology skills, which are essential to life in the 21<sup>st</sup> century. Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyze results and evaluate and communication their findings.

**304524—IB Chemistry HL B****Grade Level:** 12**Credit:** .5**Prerequisites:** IB Chemistry SL

**Course Description:** This course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. It also allows students to develop interpersonal and information technology skills, which are essential to life in the 21<sup>st</sup> century. Teachers provide students with opportunities to develop manipulative skills, design investigations, collect data, analyze results and evaluate and communication their findings.

**302616—Forensics A****Grade Level:** 11-12**Credit:** .5

**Course Description:** This course is a problem-based inquiry course dealing with Forensic sciences.

**302616—Forensics B****Grade Level:** 11-12**Credit:** .5

**Course Description:** This course is a problem-based inquiry course dealing with Forensic sciences.

**200416 Interdisciplinary Nutritional and Food Science A****Grade:** 11-12**Credits:** .5

**Course Description:** Students develop a conceptual understanding of chemistry content, as outlined in the Kentucky Academic Standards. There will be a focus on experimenting with food and connecting chemistry concepts to everyday food and cooking. Students will be expected to perform conversion calculations as well as experiment with different foods.

**200416 Interdisciplinary Nutritional and Food Science B****Grade:** 11-12**Credits:** .5

**Course Description:** Students develop a conceptual understanding of chemistry content, as outlined in the Kentucky Academic Standards. There will be a focus on experimenting with food and connecting chemistry concepts to everyday food and cooking. Students will be expected to perform conversion calculations as well as experiment with different foods.

# SOCIAL STUDIES—Graduation requirement—a total of 3 credits

## **459801—Introduction Social Studies A**

**Grade Level:** 9

**Credit:** .5

**Course Description:** This course is an introductory survey of the inquiry practices and disciplinary strands civics, economics, geography and history of social studies. It is designed to give the student exposure to the inquiry practices and the disciplinary strands of social studies.

## **459801—Introduction to Social Studies B**

**Grade Level:** 9

**Credit:** .5

**Course Description:** This course is an introductory survey of the inquiry practices and disciplinary strands civics, economics, geography and history of social studies. It is designed to give the student exposure to the inquiry practices and the disciplinary strands of social studies.

## **450876—AP World History A**

**Grade Level:** 9

**Credit:** .5

**Course Description:** AP World History looks at five common themes throughout the course: Interaction between humans and the environment, Development and interactions of cultures, State-building, expansion, and conflict, Creation, expansion, and interaction of economic systems, Development and transformation of social structures. Course content includes map reading, interpreting charts and graphs, and acquiring a social studies vocabulary. As an AP course, students will be expected to access, read and analyze materials independently and to write analytically. Students will be expected to take the AP exam.

## **450876—AP World History B**

**Grade Level:** 9

**Credit:** .5

**Course Description:** AP World History looks at five common themes throughout the course: Interaction between humans and the environment, Development and interactions of cultures, State-building, expansion, and conflict, Creation, expansion, and interaction of economic systems, Development and transformation of social structures. Course content includes map reading, interpreting charts and graphs, and acquiring a social studies vocabulary. As an AP course, students will be expected to access, read and analyze materials independently and to write analytically. Students will be expected to take the AP exam.

## **450712—AP Human Geography A**

**Grade Levels:** 9-12

**Credits:** .5

**Course Description:** This course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socio-economic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. College credit is earned with a qualifying score on an AP exam.

## **450712—AP Human Geography B**

**Grade Levels:** 9-12

**Credits:** .5

**Course Description:** This course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socio-economic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. College credit is earned with a qualifying score on an AP exam.

## **451121—Sociology A**

**Grade Levels:** 9-12

**Credits:** .5

**Course Description:** Sociology is the scientific study of hum society. It is concerned with the behavior of human beings in group situations. The study of sociology, therefore, consists of try to understand: The basic units and institutions of social life, such as the family, schools, neighborhoods, rural and urban communities, and the many other kinds of groups with which humans identify. This group can include occupational, political, religious, ethnic, family, economic status, or ideology. The sociological perspectives focus on how those social relationships arise, why they persist, why antagonisms develop, and how they maintain social order to contribute to social change.

*More Social Studies course offerings continued on next page.*

**451121—Sociology B****Grade Levels:** 9-12**Credits:** .5

**Course Description:** Sociology is the scientific study of hum society. It is concerned with the behavior of human beings in group situations. The study of sociology, therefore, consists of try to understand: The basic units and institutions of social life, such as the family, schools, neighborhoods, rural and urban communities, and the many other kinds of groups with which humans identify. This group can include occupational, political, religious, ethnic, family, economic status, or ideology. The sociological perspectives focus on how those social relationships arise, why they persist, why antagonisms develop, and how they maintain social order to contribute to social change.

**451031—Government & Civics A****Grade Level:** 10**Credit:** .5

**Course Description:** The government course focuses on the founding principles and beliefs of the United States. Students will study the structure, functions, and powers of government at the national, state, and local levels.

**451031—Government & Civics B****Grade Level:** 10**Credit:** .5

**Course Description:** The government course focuses on the founding principles and beliefs of the United States. Students will study the structure, functions, and powers of government at the national, state, and local levels.

**451030—AP US Government and Politics A****Grade Level:** 10-12**Credit:** .5

**Course Description:** The AP Government & Politics: United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality.

**451030—AP US Government and Politics B****Grade Level:** 10-12**Credit:** .5

**Course Description:** The AP Government & Politics: United States course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality.

**450812—U.S. History: Reconstruction – Present A****Grade Level:** 11**Credit:** .5**Prerequisite:** Two years of social studies

**Course Description:** This American studies course provides students with the opportunity to learn about history of the United States from the Reconstruction era to Contemporary times. Students will investigate how America’s political system works, what the responsibilities of citizenship include, and what makes American democracy unique. The course of study will also allow students to trace the rise of America’s economic system, examine how the geography of the United States has influenced its development, and explore how America has emerged as a diverse culture.

**450812—U.S. History: Reconstruction – Present B****Grade Level:** 11**Credit:** .5**Prerequisite:** Two years of social studies

**Course Description:** This American studies course provides students with the opportunity to learn about history of the United States from the Reconstruction era to Contemporary times. Students will investigate how America’s political system works, what the responsibilities of citizenship include, and what makes American democracy unique. The course of study will also allow students to trace the rise of America’s economic system, examine how the geography of the United States has influenced its development, and explore how America has emerged as a diverse culture.

*More Social Studies course offerings continued on next page.*

**—IB History of the Americas 1 HL A**

**Grade Level:** 11

**Credit:** .5

**Prerequisite:** Two years of social studies

**Course Description:** IB History I is an extremely challenging course of study that would be equivalent to a college-level history class. IB History I centers on historical inquiry into various eras in American history, including American Revolution, Constitution, Transformation of Democracy: Jefferson to Jackson, Civil war and Reconstruction, Industrialization, Immigration, and Urbanization, Progressivism, The Great Depression and New Deal.

**—IB History of the Americas 1 HL B**

**Grade Level:** 11

**Credit:** .5

**Prerequisite:** Two years of social studies

**Course Description:** IB History I is an extremely challenging course of study that would be equivalent to a college-level history class. IB History I centers on historical inquiry into various eras in American history, including American Revolution, Constitution, Transformation of Democracy: Jefferson to Jackson, Civil war and Reconstruction, Industrialization, Immigration, and Urbanization, Progressivism, The Great Depression and New Deal.

**450814—AP U.S. History A**

**Grade Levels:** 11-12

**Credit:** .5

**Course Description:** This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance - American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture and Society - provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. The course also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth. College credit is earned with a qualifying score on an AP exam.

**450814—AP U.S. History B**

**Grade Levels:** 11-12

**Credit:** .5

**Course Description:** This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance - American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture and Society - provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. The course also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth. College credit is earned with a qualifying score on an AP exam.

**—IB Psychology A**

**Grade Levels:** 11-12

**Credit:** .5

**Prerequisite:** 2 years of Social Studies

**Course Description:** The International Baccalaureate Psychology course of study includes the study of psychology from three main perspectives: Biological perspective, learning perspective, and cognitive perspective. In addition to these three perspectives the course examines the causes and treatments of dysfunctional behaviors.

**—IB Psychology B**

**Grade Levels:** 11-12

**Credit:** .5

**Prerequisite:** 2 years of Social Studies

**Course Description:** The International Baccalaureate Psychology course of study includes the study of psychology from three main perspectives: Biological perspective, learning perspective, and cognitive perspective. In addition to these three perspectives the course examines the causes and treatments of dysfunctional behaviors.

*More Social Studies course offerings continued on next page.*

**450712—AP Psychology A****Grade Levels:** 11-12**Credit:** .5

**Course Description:** This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, development psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. College credit is earned with a qualifying score on an AP exam.

**450712—AP Psychology B****Grade Levels:** 11-12**Credit:** .5

**Course Description:** This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, development psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. College credit is earned with a qualifying score on an AP exam.

**—IB History of the Americas 2 HL A****Grade Level:** 12**Credit:** .5**Prerequisite:** IB History of the Americas SL

**Course Description:** International Baccalaureate History of the Americas II requires students to make comparisons between similar and dissimilar solutions to common human situations, whether they are political, economic or social. It invites comparisons between, but not judgments of, different cultures, political systems and national traditions. Topics include World War I, the rise of single party states, World War II, Cold War 1945-1979, and a special focus on Latin America.

**—IB History of the Americas 2 HL B****Grade Level:** 12**Credit:** .5**Prerequisite:** IB History of the Americas SL

**Course Description:** International Baccalaureate History of the Americas II requires students to make comparisons between similar and dissimilar solutions to common human situations, whether they are political, economic or social. It invites comparisons between, but not judgments of, different cultures, political systems and national traditions. Topics include World War I, the rise of single party states, World War II, Cold War 1945-1979, and a special focus on Latin America.

# PHYSICAL EDUCATION—Graduation requirement—a ½ credit of physical education

## 340216—Physical Education I

Grade Levels: 9-12

Credit: .5

**Course Description:** A variety of activities will be utilized to stress the development of the components of physical fitness. Basic skills, strategies, teamwork and general knowledge of team sports will also be included. Various athletic-based activities will be included in this course.

## 340219—Advanced Physical Education

Grade Levels: 10-12

Credit: .5

**Course Description:** This course offers students the opportunity to strengthen the specific skills of different sports including team and individual sports. **Elective Course ONLY**

## 340214—Fitness Conditioning

Grade Levels: 10-12

Credit: .5

**Course Description:** This course emphasizes conditioning activities that help develop muscular strength, muscular endurance, flexibility and cardiorespiratory endurance. **Elective Course ONLY**

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# HEALTH EDUCATION—Graduation requirement—a ½ credit of health education

## 340133—Health Education I

Grade Levels: 9-12

Credit: .5

**Course Description:** This course emphasizes the use of health values in making decisions. The course content includes alcoholism, drug abuse, personal hygiene, accident prevention, family living, sex education, environmental health, nutrition, and consumer health.

# VISUAL AND PERFORMING ARTS—Graduation requirement—1 visual or performing arts credit

## 500111—History/Appreciation of Visual/Performing Arts Survey A

Grade Level: 9-12

Credit: .5

**Course Description:** This course provides a historical and philosophical survey of all art forms. Students will participate in performance and hands-on activities in order to gain a richer insight into the different art forms. Students will create, perform and respond in and to the arts.

## 500111—History/Appreciation of Visual/Performing Arts Survey B

Grade Level: 9-12

Credit: .5

**Course Description:** This course provides a historical and philosophical survey of all art forms. Students will participate in performance and hands-on activities in order to gain a richer insight into the different art forms. Students will create, perform and respond in and to the arts.

## 500913—Music – Concert/Marching Band A

Grade Level: 9-12

Credit: .5

**Course Description:** This class involves music theory, music history, theatre, dance, literature and the correlation of music to art. Students will perform at various venues across the greater Cincinnati/Northern Kentucky area, especially in group and individual competitions. Grades will be based on daily rehearsal technique, attendance at performances and periodic assessments including a final exam.

## 500913—Music – Concert/Marching Band B

Grade Level: 9-12

Credit: .5

**Course Description:** This class involves music theory, music history, theatre, dance, literature and the correlation of music to art. Students will perform at various venues across the greater Cincinnati/Northern Kentucky area, especially in group and individual competitions. Grades will be based on daily rehearsal technique, attendance at performances and periodic assessments including a final exam.

## 500925—Music – Chorus A

Grade Level: 9-12

Credit: .5 (*may be repeated for up to two credits*)

**Course Description:** This advanced vocal music course will focus on focus on performance techniques, vocal skills and reading music as well as tailoring performances for public concerts. Students will learn to put together an appropriate program and refine their performance techniques. Students will perform at various venues across the greater Cincinnati/Northern Kentucky area, especially in group and individual adjudicated events. Attendance at after-school practices and performances is expected.

## 500925—Music – Chorus B

Grade Level: 9-12

Credit: .5 (*may be repeated for up to two credits*)

**Course Description:** This advanced vocal music course will focus on focus on performance techniques, vocal skills and reading music as well as tailoring performances for public concerts. Students will learn to put together an appropriate program and refine their performance techniques. Students will perform at various venues across the greater Cincinnati/Northern Kentucky area, especially in group and individual adjudicated events. Attendance at after-school practices and performances is expected.

*More Visual and Performing Arts course offerings continued on next page.*

### **500913—Music -- Beginning Band A**

**Grades 9-12**

**Credit: .5**

**Course Description:** This beginning music course will explore the basics of instrument care and use, the fundamentals of sound production and standard notation, ensemble and solo performance, and will also include topics relating to music theory, performing arts history, cultural relevance, literature, etc. as they relate to music. Students will take part in performances on and off campus, and will be graded based on rehearsal participation, concert attendance, regular playing tests, and periodic assessments including a final exam. No previous abilities are required. *\*Students who would like to play a percussion instrument will be required to complete one full year on a wind instrument before playing percussion (special exceptions may exist with director approval).*

### **500913—Music -- Beginning Band B**

**Grades 9-12**

**Credit: .5**

**Course Description:** This beginning music course will explore the basics of instrument care and use, the fundamentals of sound production and standard notation, ensemble and solo performance, and will also include topics relating to music theory, performing arts history, cultural relevance, literature, etc. as they relate to music. Students will take part in performances on and off campus, and will be graded based on rehearsal participation, concert attendance, regular playing tests, and periodic assessments including a final exam. No previous abilities are required. *\*Students who would like to play a percussion instrument will be required to complete one full year on a wind instrument before playing percussion (special exceptions may exist with director approval).*

### **500711—Visual Art – Comprehensive A**

**Grade Level: 9-12**

**Credit: .5**

**Course Description:** This class is designed to introduce the student to the discipline of visual art. It is intended to expose the student to concepts, principles and practices in two-dimensional and three-dimensional art.

### **500711—Visual Art – Comprehensive B**

**Grade Level: 9-12**

**Credit: .5**

**Course Description:** This class is designed to introduce the student to the discipline of visual art. It is intended to expose the student to concepts, principles and practices in two-dimensional and three-dimensional art.

### **500712—Visual Art – Drawing and Painting**

**Grade Level: 10-12**

**Credit: .5**

**Prerequisites: Visual Art - Comprehensive**

**Course Description:** This course is a continuation of material learned in Art Foundations. Students will concentrate on two-dimensional media with emphasis on drawing and painting.

### **500713—Visual Arts – Sculpture**

**Grade Level: 11-12**

**Credit: .5**

**Prerequisites: Visual Art - Comprehensive**

**Course Description:** This course continues the material learned in Art Foundations. Students will produce sculpture and ceramics using various media.

*More Visual and Performing Arts course offerings continued on next page.*

### **500717 IB Visual Art A**

**Grade: 11-12**

**Credit: .5**

**Course Description:** This course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts. College credit is earned with a qualifying score on an IB exam.

### **500717 IB Visual Art B**

**Grade: 11-12**

**Credit: .5**

**Course Description:** This course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts. College credit is earned with a qualifying score on an IB exam.

### **500930—IB Music A**

**Grade Level: 11-12**

**Credit: .5**

**Course Description:** This course seeks to develop students' knowledge and potential as musicians, both personally and collaboratively. IB Diploma Program music students are required to study musical perception and actively listen to a wide range of music from different parts of the world, musical cultures and time periods. They also develop aural perception and understanding of music by learning about musical elements, including form and structure, notations, musical terminology and context. College credit is earned with a qualifying score on an IB exam.

### **500930—IB Music B**

**Grade Level: 11-12**

**Credit: .5**

**Course Description:** This course seeks to develop students' knowledge and potential as musicians, both personally and collaboratively. IB Diploma Program music students are required to study musical perception and actively listen to a wide range of music from different parts of the world, musical cultures and time periods. They also develop aural perception and understanding of music by learning about musical elements, including form and structure, notations, musical terminology and context. College credit is earned with a qualifying score on an IB exam.

### **500513—Acting A**

**Grade: 9-12**

**Credit: .5**

**Course Description:** In this course students would be introduced to the art of acting. They would learn about the history of drama, the actionable ways to engage in acting (i.e. intentions, blocking, and partner work) and perform monologues and skits with their peers. The course would culminate in a short play that would be performed together as a class.

### **500513—Acting B**

**Grade: 9-12**

**Credit: .5**

**Course Description:** In this course students would be introduced to the art of acting. They would learn about the history of drama, the actionable ways to engage in acting (i.e. intentions, blocking, and partner work) and perform monologues and skits with their peers. The course would culminate in a short play that would be performed together as a class.

# ELECTIVE COURSE OFFERINGS—Graduation Requirement—

## Students must have a TOTAL of 6 elective credits

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### 906010 Peer Tutoring A

Grades: 11-12

Credit: .5

**Course Description:** This course is designed to train students in effective peer tutoring skills and provide experiences in peer tutoring.

### 906010 Peer Tutoring B

Grades: 11-12

Credit: .5

**Course Description:** This course is designed to train students in effective peer tutoring skills and provide experiences in peer tutoring.

### 904004 Study Skills 1 A

Grade: 9

Credit: .5

**Course Description:** This course is designed to provide students using an IEP the opportunity to develop strategies and techniques to improve organization, note taking, self-advocacy, studying, test taking, time management and to remediate their areas of disability so as to become college and career ready. For freshman students, attention will be given towards helping a student make a smooth transition from middle school to high school.

### 904004 Study Skills 1 B

Grade: 9

Credit: .5

**Course Description:** This course is designed to provide students using an IEP the opportunity to develop strategies and techniques to improve organization, note taking, self-advocacy, studying, test taking, time management and to remediate their areas of disability so as to become college and career ready. For freshman students, attention will be given towards helping a student make a smooth transition from middle school to high school.

### 904002 Study Skills 3 A

Grade: 11

Credit: .5

**Course Description:** This course is designed to provide students using an IEP the opportunity to develop strategies and techniques to improve organization, note taking, self-advocacy, studying, test taking, time management and to remediate their areas of disability so as to become college and career ready. Juniors will work to improve skills in order to achieve college and career readiness benchmarks as deemed by the ACT.

### 904002 Study Skills 3 B

Grade: 11

Credit: .5

**Course Description:** This course is designed to provide students using an IEP the opportunity to develop strategies and techniques to improve organization, note taking, self-advocacy, studying, test taking, time management and to remediate their areas of disability so as to become college and career ready. Juniors will work to improve skills in order to achieve college and career readiness benchmarks as deemed by the ACT.

### 901005—Experience-Based Work

Grade Level: 12

**Credit:** student may earn up to 2 credits for this course.

**Prerequisite Note:** Students can take for 3 periods but must have 4 additional credits they are working towards to earn KEES money for senior year of high school.

**Course Description:** Work based experience provides an opportunity for students to work with a team consisting of a school advisor and potential employer to develop and improve on skills necessary to be successful in the workforce. The skills that are explored include job search, interviewing, job shadowing, communication skills, professionalism and working as a team. Career advising is an important element of this course and should take place in a real world context. The course may involve academic projects aligned to skills applied at the workplace. The code would also be used for Experienced Based Career Education course.

# FOREIGN LANGUAGE ELECTIVES

## 161108—Spanish 1 A

**Grade Level:** 9-12

**Credit:** .5

**Course Description:** Students will make introductions, tell the date and time, describe themselves and others, talk about things they like to do, talk about what they do on a daily basis, discuss classes and school events, describe family relationships and where families live, talk about food and recipes, staying fit and give advice. Students will also be exposed to various cultural topics throughout the course and become familiar with many Spanish speaking countries, their practices, products, and perspectives.

## 161108—Spanish 1 B

**Grade Level:** 9-12

**Credit:** .5

**Course Description:** Students will make introductions, tell the date and time, describe themselves and others, talk about things they like to do, talk about what they do on a daily basis, discuss classes and school events, describe family relationships and where families live, talk about food and recipes, staying fit and give advice. Students will also be exposed to various cultural topics throughout the course and become familiar with many Spanish speaking countries, their practices, products, and perspectives.

## 161109—Spanish 2 A

**Grade Level:** 10-12

**Credit:** .5

**Prerequisite:** Spanish 1

**Course Description:** Students use slightly more complex vocabulary and grammar structures than Spanish I. They will talk about things they like to do, household chores, professions, descriptions, places around town, giving directions and commands, school events, the body and getting hurt, daily routines and people and things in the past. Students will also look at a variety of cultural topics including famous celebrations and traditions and the culture of various capital cities around the Spanish-speaking world.

## 161109—Spanish 2 B

**Grade Level:** 10-12

**Credit:** .5

**Prerequisite:** Spanish 1

**Course Description:** Students use slightly more complex vocabulary and grammar structures than Spanish I. They will talk about things they like to do, household chores, professions, descriptions, places around town, giving directions and commands, school events, the body and getting hurt, daily routines and people and things in the past. Students will also look at a variety of cultural topics including famous celebrations and traditions and the culture of various capital cities around the Spanish-speaking world.

## 161110 Spanish 3 A

**Grade:** 10-12

**Credit:** .5

**Prerequisite:** Spanish 1 and 2

**Course Description:** It prepares students to communicate in the target language and perform interpersonal, interpretive and presentational communicative tasks; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.

## 161110 Spanish 3 B

**Grade:** 10-12

**Credit:** .5

**Prerequisite:** Spanish 1 and 2

**Course Description:** It prepares students to communicate in the target language and perform interpersonal, interpretive and presentational communicative tasks; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.

*More Spanish course offerings continued on next page.*

**161124—IB Spanish AB Initio A**

**Grade Level: 11-12**

**Credit: .5**

**Prerequisite: Spanish 2**

**Course Description:** The Diploma Program focuses on the acquisition and use of language in a range of contexts and for different purposes while, at the same time, promoting an understanding of another culture through the study of its language. This course is offered for Modern Languages and Classical Languages, and corresponds to Language Ab Initio courses.

**161124—IB Spanish AB Initio B**

**Grade Level: 11-12**

**Credit: .5**

**Prerequisite: Spanish 2**

**Course Description:** The Diploma Program focuses on the acquisition and use of language in a range of contexts and for different purposes while, at the same time, promoting an understanding of another culture through the study of its language. This course is offered for Modern Languages and Classical Languages, and corresponds to Language Ab Initio courses.

# DUAL CREDIT—Gateway Classes during High School

Dual credit course offerings consist of college-level course of studies developed in accordance with KRS 164.098 in which a high school student receives credit from both the high school and postsecondary institution in which the student is enrolled upon completion of a single class or designated program of study. Postsecondary institution partners that are classified as public institutions must adhere to the statewide course classification system, which regulates Statewide General Education Student Learning Outcomes (SLOs), as defined and adopted through policy by the Kentucky Council of Postsecondary Education. The SLOs are divided into five categories: Quantitative Reasoning, Natural Sciences, Written and Oral Communications, Arts and Humanities, and Social and Behavioral Sciences.

These courses are taught by College Approved Instructors—students are considered a college student for these courses; Holmes High School staff can offer support but may not enter the grade for this course and may not have access the course curriculum or activities. Class selection is based upon the students' eligibility for the course along with schedule alignment to Holmes High School and coordinating college. Students choosing to participate in these courses are expected to complete the college-level coursework and sign an agreement to aim for success. Each course cost approximately \$170 per student, monies are available to help with tuition rates. Students may take up to 3 dual credit courses a semester, total of 6 per year.

***Prerequisites—course may have benchmark requirements; this is determined by the coordinating college, Holmes High School does not control this and can NOT override these requirements.***

## 800011—Dual Credit Written Communications

Grade Level: 11-12

Credit: 1

**Prerequisite:** Determined at the College Level, ACT Reading and English Benchmark probable.

**Course Description:** This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This is a Writing course.

## 800015—Dual Credit Oral Communications

Grade Level: 11-12

Credit: 1

**Prerequisite:** Determined at the College Level, ACT Reading and English Benchmark probable.

**Course Description:** This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This is a Speech/Oral Communication (English) course.

## 800021—Dual Credit Quantitative Reasoning

Grade Level: 11-12

Credit: 1

**Prerequisite:** Determined at the College Level, ACT Math Benchmark probable.

**Course Description:** This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This is a Mathematics course.

## 800031—Dual Credit Arts & Humanities

Grade Level: 11-12

Credit: 1

**Prerequisite:** Determined at the College Level.

**Course Description:** This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This is an Arts and Humanities/History and Appreciation of the Visual and Performing Arts course.

## 800032—Dual Credit Arts & Humanities—VPA

Grade Level: 11-12

Credit: 1

**Prerequisite:** Determined at the College Level.

**Course Description:** This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This is an Arts and Humanities/History and Appreciation of the Visual and Performing Arts course.

***More Dual Credit course offerings continued on next page.***

**800033—Dual Credit Arts & Humanities—World Language/Cultural Studies**

**Grade Level: 11-12**

**Credit: 1**

**Prerequisite: Determined at the College Level.**

**Course Description:** This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This is an Arts and Humanities/History and Appreciation of the Visual and Performing Arts course.

**800041—Dual Credit Natural Sciences**

**Grade Level: 11-12**

**Credit: 1**

**Prerequisite: Determined at the College Level.**

**Course Description:** This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This is a Natural Science course.

**800051—Dual Credit Social and Behavioral Sciences**

**Grade Level: 11-12**

**Credit: 1**

**Prerequisite: Determined at the College Level.**

**Course Description:** This is a dual credit course. This course will enable the student to earn a credit at the high school and at the postsecondary institutions. This is a Social Studies course.

***Prerequisites—course may have benchmark requirements; this is determined by coordinating college, Holmes High School does not control this and can NOT override these requirements.***

These courses are taught by College Approved Instructors—students are considered a college student for these courses; Holmes High School staff can offer support but may not enter the grade for this course and may not have access the course curriculum or activities. Class selection is based upon the students' eligibility for the course along with schedule alignment to Holmes High School and coordinating college. Students choosing to participate in these courses are expected to complete the college-level coursework and sign an agreement to aim for success. Each course cost approximately \$170 per student, monies are available to help with tuition rates. Students may take up to 3 dual credit courses a semester, total of 6 per year.

# Career and Technical Education Electives

*Optional elective courses open to all students.*

## **320102 Career Choices**

**Grade 9**

**Credit: .5**

**Course Description:** This course introduces students to a broad range of career opportunities in today's society. It includes assessment of student's aptitudes and abilities, interests and learning styles in order to assist them in identifying careers and planning a career path. Students will explore goal writing and life skills.

## **080799 Leadership Dynamics A**

**Grade: 12**

**Credit: .5**

**Course Description:** This course is designed to assist students with developing skills needed to be successful leaders and responsible members of society. This student will develop personal attributes and social skills. Emphasis will be placed on interpersonal skills, team building, communication, personal development and leadership. This course will include opportunities for students to apply their knowledge.

## **080799 Leadership Dynamics B**

**Grade: 12**

**Credit: .5**

**Course Description:** This course is designed to assist students with developing skills needed to be successful leaders and responsible members of society. This student will develop personal attributes and social skills. Emphasis will be placed on interpersonal skills, team building, communication, personal development and leadership. This course will include opportunities for students to apply their knowledge.

# BUSINESS & MARKETING PATHWAY OFFERINGS

Outlined in the table below are all pathways for students interested in a future in Business & Marketing. These pathways should follow a proper course sequence. Upon completion of three credits students will be able to sit for the appropriate KOSSA certification. Additional industry certifications will be offered for some pathways. **Courses may be taken out of approved pathway as additional elective options with teacher permission ONLY.**

<b>BUSINESS AND MARKETING PATHWAYS</b>		
<b>Marketing Pathway:</b> A program that generally prepares individuals to undertake and manage the process of developing consumer audiences and moving products from producers to consumers. Includes instruction in buyer behavior and dynamics, principle of marketing research, demand analysis, cost-volume and profit relationships, pricing theory, marketing campaign and strategic planning, market segments, advertising methods, sales operations and management, consumer relations, retailing, and applications to specific products and markets		
1 <sup>st</sup> year	060112	Digital Literacy
2 <sup>nd</sup> year	080716	Marketing Principles
3 <sup>rd</sup> year	080717	Marketing Applications
4 <sup>th</sup> year	080310	Principles of Entrepreneurship
4 <sup>th</sup> year	060109	Ethical Leadership
<b>Certifications for Pathway:</b> Marketing EOP Exam <b>OR</b> Assessment of Skills and Knowledge for Business (ASK)—Fundamental Marketing Concepts <b>AND</b> Google Cloud Certification—G Suite		

<b>Logistics/Supply Chain Management Pathway:</b> A program that prepares individual to perform the duties of logisticians and supply chain managers. Includes instruction in general marketing, business management, and logistics and supply chain operations. Program offers dual credit hours for courses and a co-op placement during the final semester of senior year.		
1 <sup>st</sup> year	060112	Digital Literacy
2 <sup>nd</sup> year	080716	Marketing Principles
3 <sup>rd</sup> year	060411	Introduction to Management
4 <sup>th</sup> year	060197	LOM 100: Introduction to Logistics Management
4 <sup>th</sup> year	060197	LOM 102: Supply Chain Management
4 <sup>th</sup> year	060107	Business Education Co-Op** [Must meet GPA, Attendance, and Behavior Guidelines]
<b>Certifications for Pathway:</b> Assessment of Skills and Knowledge for Business (ASK)—Fundamental Business Concepts <b>AND</b> Certified Logistics Technician (CLT)		

<b>Management and Entrepreneurship Pathway:</b> A program that prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization. Includes instruction in management theory, human resources management and behavior, accounting and other quantitative methods, purchasing and logistics, organization and production, marketing, and business decision making.		
1 <sup>st</sup> year	060112	Digital Literacy
2 <sup>nd</sup> year	080716	Marketing Principles
3 <sup>rd</sup> year	060411	Introduction to Management
4 <sup>th</sup> year	080310	Principles of Entrepreneurship
4 <sup>th</sup> year	060190	Ethical Leadership
<b>Certifications for Pathway:</b> Business Management EOP Exam <b>OR</b> Assessment of Skills and Knowledge for Business (ASK)—Fundamental Business Concepts <b>OR</b> Fundamental Marketing Concepts		

*Business & Marketing course offerings and descriptions begin on next page.*

**060112—Digital Literacy A****Grade Level:** 9-12**Credits:** .5**Course Description:** Students will use a computer and application software including word processing, presentation, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented.**060112—Digital Literacy B****Grade Level:** 9-12**Credits:** .5**Course Description:** Students will use a computer and application software including word processing, presentation, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented.**080716—Marketing Principles A****Grade Level:** 10-12**Credits:** .5**Course Description:** This course provides a basic foundation for further study in marketing. Students study economic functions at work in the marketplace, marketing functions including purchasing, pricing, and distribution functions. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, and promotion. Both marketing and employment skills learned will improve and increase the chance of successful transition into the world of work. Leadership development will be provided through student organizations.**080716—Marketing Principles B****Grade Level:** 10-12**Credits:** .5**Course Description:** This course provides a basic foundation for further study in marketing. Students study economic functions at work in the marketplace, marketing functions including purchasing, pricing, and distribution functions. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, and promotion. Both marketing and employment skills learned will improve and increase the chance of successful transition into the world of work. Leadership development will be provided through student organizations.**060411—Introduction to Management A****Grade Level:** 11-12**Credit:** .5**Course Description:** This course emphasizes the skills needed for managing a business that involves the selection and supervision of employees including efficient use of time, personnel, facilities, and financial resources. Students will explore forms of business ownership; typical business organizational structure; product or service promotion in business; effective communications; human relations skills required in dealing with employees; and effective management strategies used in personnel, finance, production, marketing, and information processing. Leadership development will be provided through FBLA/DECA.**060411—Introduction to Management B****Grade Level:** 11-12**Credit:** .5**Course Description:** This course emphasizes the skills needed for managing a business that involves the selection and supervision of employees including efficient use of time, personnel, facilities, and financial resources. Students will explore forms of business ownership; typical business organizational structure; product or service promotion in business; effective communications; human relations skills required in dealing with employees; and effective management strategies used in personnel, finance, production, marketing, and information processing. Leadership development will be provided through FBLA/DECA.

*More Business & Marketing course offerings continued on next page.*

**080717—Marketing Applications A****Grade Level:** 11-12**Credits:** .5**Prerequisite:** Marketing Principles

**Course Description:** This course is designed to enhance marketing skills developed in the marketing prerequisite courses and to learn advanced marketing skills in such areas as advertising, customer service, supervision, and employee/employer relations for a wide range of marketing careers. This course is based on the business and marketing core that includes communication skills, emotional intelligence, economics, marketing, operations, promotion, marketing-information management and financial analysis. Leadership development will be provided through student organizations.

**080717—Marketing Applications B****Grade Level:** 11-12**Credits:** .5**Prerequisite:** Marketing Principles

**Course Description:** This course is designed to enhance marketing skills developed in the marketing prerequisite courses and to learn advanced marketing skills in such areas as advertising, customer service, supervision, and employee/employer relations for a wide range of marketing careers. This course is based on the business and marketing core that includes communication skills, emotional intelligence, economics, marketing, operations, promotion, marketing-information management and financial analysis. Leadership development will be provided through student organizations.

**060109—Ethical Leadership A****Grade Level:** 12**Credits:** .5

**Course Description:** This course is a principles-based ethics course introducing students to key leadership and ethical knowledge and skills, including integrity, trust, accountability, transparency, fairness, respect, rule of law, and viability. Throughout the course, students apply ethical principles to contemporary, real-world situations that teens and young adults often encounter in school, at home, with friends, and in entry-level job positions. They examine the concept of ethical leadership and strengthen their leadership and ethical decision-making skills through the planning, implementation, and evaluation of at least one class service-learning project. Leadership development will be provided through FBLA/DECA.

**060109—Ethical Leadership B****Grade Level:** 12**Credits:** .5

**Course Description:** This course is a principles-based ethics course introducing students to key leadership and ethical knowledge and skills, including integrity, trust, accountability, transparency, fairness, respect, rule of law, and viability. Throughout the course, students apply ethical principles to contemporary, real-world situations that teens and young adults often encounter in school, at home, with friends, and in entry-level job positions. They examine the concept of ethical leadership and strengthen their leadership and ethical decision-making skills through the planning, implementation, and evaluation of at least one class service-learning project. Leadership development will be provided through FBLA/DECA.

**060197— LOM 100: Introduction to Logistics Management****Grade Level:** 12**Credit:** 1

**Course Description:** Presents an overview of general logistics concepts and organizational issues; inventory management and customer service in logistics; and transportation and third party logistics. **Dual Credit Course.**

**060197—LOM 102: Supply Chain Management****Grade Level:** 12**Credit:** 1**Prerequisite:** LOM 100 Introduction to Logistics Management

**Course Description:** Presents an overview of supply chain management; financial analysis; inventory management skill techniques; and supply change design and sustainability solutions. **Dual Credit Course.**

*More Business & Marketing course offerings continued on next page.*

**060107—Business Education Co-Op A**

**Grade Level:** 12

**Credits:** .5 *(Students can earn up to 2 credits for this course)*

**Course Description:** Cooperative Education for CTE courses provide supervised work site experience related to the student’s identified career pathway. A student must be enrolled in an approved capstone course during the same school year that the co-op experience is completed. Students who participate receive a salary for these experiences, in accordance with local, state and federal minimum wage requirements according to the Work Based Learning Guide. Specific GPA, Attendance, and Behavior requirements must be met for a student to be eligible for this opportunity.

**060107—Business Education Co-Op B**

**Grade Level:** 12

**Credits:** .5 *(Students can earn up to 2 credits for this course)*

**Course Description:** Cooperative Education for CTE courses provide supervised work site experience related to the student’s identified career pathway. A student must be enrolled in an approved capstone course during the same school year that the co-op experience is completed. Students who participate receive a salary for these experiences, in accordance with local, state and federal minimum wage requirements according to the Work Based Learning Guide. Specific GPA, Attendance, and Behavior requirements must be met for a student to be eligible for this opportunity.

**080310 Principles of Entrepreneurship A**

**Grade:** 12

**Credits:** .5

**Course Description:** This course is designed to provide students the skills needed to effectively organize, develop, create and manage their own business. This course is based on improving communication skills and understanding economics, financial analysis, operations, promotion and selling. The culminating project of the course is the development of a comprehensive business plan. Cooperative education or shadowing experiences may be used to enhance course instruction. Leadership development provided through FBLA, DECA and/or FCCLA. **Students with active leadership roles in the student based enterprise will be required to complete this course.**

**080310 Principles of Entrepreneurship B**

**Grade:** 12

**Credits:** .5

**Course Description:** This course is designed to provide students the skills needed to effectively organize, develop, create and manage their own business. This course is based on improving communication skills and understanding economics, financial analysis, operations, promotion and selling. The culminating project of the course is the development of a comprehensive business plan. Cooperative education or shadowing experiences may be used to enhance course instruction. Leadership development provided through FBLA, DECA and/or FCCLA. **Students with active leadership roles in the student based enterprise will be required to complete this course.**

# INFORMATION TECHNOLOGY PATHWAY OFFERINGS

Outlined in the table below are all pathways for students interested in a future in Information Technology. Upon completion of three credits students will be able to sit for the appropriate KOSSA certification. Additional industry certifications will be offered.

INFORMATION TECHNOLOGY PATHWAY		
<b>Network Administration Pathway:</b> <i>The networking pathway courses will help students learn new administration support skills or upgrade existing computer information systems skills. Students will be able to properly install networking software on an appropriately sized computer, configure the software for a simple server environment and connect it correctly to a physical network, manage a simple networking environment, effectively troubleshooting common problems, adding new users and attending to security concerns, work within the ethical and professional parameters in the field of network administration.</i>		
1st year	060112	Digital Literacy
2nd year	110101	Computer Hardware and Software Maintenance
3rd year	110901	Introduction to Networking Concepts
4th year	110251 or 110917	Computational Thinking or Internet Technologies
<b>Certifications for Pathway:</b> Network Administration EOP Exam <b>OR</b> CompTIA IT Fundamentals <b>AND</b> CompTIA Network+		

<b>Computer Programming Pathway:</b> <i>A program that prepares students to design and create apps, as well as trouble shoot the latest programming languages used in industry. Upon completion of this career pathway, students will be prepared for an entry level position in the IT field or continue their education in computer programming.</i>		
1 <sup>st</sup> year	060112	Digital Literacy
2 <sup>nd</sup> year	110251	Introduction to Information Technology/Computation Thinking
3 <sup>rd</sup> year	110201	Introduction to Programming/Coding
4 <sup>th</sup> year	110711	AP Computer Science Principles
<b>Certifications for Pathway:</b> Business Management EOP Exam <b>OR</b> Assessment of Skills and Knowledge for Business (ASK)—Fundamental Business Concepts <b>OR</b> Fundamental Marketing Concepts		

## **060112—Digital Literacy A**

**Grade Level:** 9-12

**Credit:** .5

**Course Description:** Introduces students to the main components of computer literacy including Computer Fundamentals, Key Applications and Living Online. Provides an introduction to the computer and the convergence of technology as used in today's global environment. Introduces topics including computer hardware and software, file management, the Internet, e-mail, the social web, green computing, security and computer ethics. Presents basic use of application, programming, systems and utility software. Basic keyboarding skills are strongly recommended.

## **060112—Digital Literacy B**

**Grade Level:** 9-12

**Credit:** .5

**Course Description:** Introduces students to the main components of computer literacy including Computer Fundamentals, Key Applications and Living Online. Provides an introduction to the computer and the convergence of technology as used in today's global environment. Introduces topics including computer hardware and software, file management, the Internet, e-mail, the social web, green computing, security and computer ethics. Presents basic use of application, programming, systems and utility software. Basic keyboarding skills are strongly recommended.

*More Information Technology course offerings continued on next page.*

### **110101—Computer Hardware and Software Maintenance A**

**Grade Level:** 10-12

**Credit:** .5

**Course Description:** Focuses on the design of computing systems, including instruction in the principles of computer hardware and software components, algorithms data basis, telecommunications, etc. Includes the knowledge to identify and explain PC components, setup a basic PC workstation, conduct basic software installation, identify compatibility issues and recognize/prevent basic security risks and also gives knowledge in the areas of Green IT and preventative maintenance of computers.

### **110101—Computer Hardware and Software Maintenance B**

**Grade Level:** 10-12

**Credit:** .5

**Course Description:** Focuses on the design of computing systems, including instruction in the principles of computer hardware and software components, algorithms data basis, telecommunications, etc. Includes the knowledge to identify and explain PC components, setup a basic PC workstation, conduct basic software installation, identify compatibility issues and recognize/prevent basic security risks and also gives knowledge in the areas of Green IT and preventative maintenance of computers.

### **110251—Computation Thinking A**

**Grade Level:** 10-12

**Credit:** .5

**Course Description:** Students analyze the structure of the worldwide web, apply basic principles of web documents and HTML, and develop multi-media web pages. Course content will include the understanding of hypertext and web structures. Equipment such as scanners, digital and video cameras and sound recording devices will be utilized through hands-on instruction. Promotes understanding of computer programming and logic by teaching students to "think like a computer". Covers skills needed to develop and design language-independent solutions to solve computer related problems. Covers developmental and design basics including use of variables, control and data structures, and principles of command-line and object-oriented languages.

### **110251—Computation Thinking B**

**Grade Level:** 10-12

**Credit:** .5

**Course Description:** Students analyze the structure of the worldwide web, apply basic principles of web documents and HTML, and develop multi-media web pages. Course content will include the understanding of hypertext and web structures. Equipment such as scanners, digital and video cameras and sound recording devices will be utilized through hands-on instruction. Promotes understanding of computer programming and logic by teaching students to "think like a computer". Covers skills needed to develop and design language-independent solutions to solve computer related problems. Covers developmental and design basics including use of variables, control and data structures, and principles of command-line and object-oriented languages.

### **110201—Introduction to Programming/Coding A**

**Grade Levels:** 11-12

**Credit:** .5

**Course Description:** This course focuses on the general writing and implementation of generic and atomized programs to drive operating systems. Instruction includes software design, languages, and program writing, and troubleshooting. Students are introduced to fundamental programming concepts using an industry-specific or emerging programming language. Includes data types, control structures, simple data structures, error-handling, modular programming, information and file processing, and uniqueness of the language used in the course. Students spend at least 20 hours programming and applying learned concepts through programming. Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.

### **110201—Introduction to Programming/Coding B**

**Grade Levels:** 11-12

**Credit:** .5

**Course Description:** This course focuses on the general writing and implementation of generic and atomized programs to drive operating systems. Instruction includes software design, languages, and program writing, and troubleshooting. Students are introduced to fundamental programming concepts using an industry-specific or emerging programming language. Includes data types, control structures, simple data structures, error-handling, modular programming, information and file processing, and uniqueness of the language used in the course. Students spend at least 20 hours programming and applying learned concepts through programming. Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.

***More Information Technology course offerings continued on next page.***

**110901—Introduction to Networking Concepts A****Grade Level:** 11-12**Credit:** .5**Course Description:** Introduces technical level concepts of non-vendor specific networking including technologies, media, topologies, devices, management tools, and security. Provides the basics of how to manage, maintain, troubleshoot, install, operate, and configure basic network**110901—Introduction to Networking Concepts B****Grade Level:** 11-12**Credit:** .5**Course Description:** Introduces technical level concepts of non-vendor specific networking including technologies, media, topologies, devices, management tools, and security. Provides the basics of how to manage, maintain, troubleshoot, install, operate, and configure basic network**110917—Internet Technologies A****Grade Level:** 12**Credit:** .5**Course Description:** Provides students with a study of traditional and emerging Internet technologies. Covers topics including Internet fundamentals, Internet applications, Internet delivery systems, and Internet client/server computing. Provides a hands-on experience and some rudimentary programming in an Internet environment.**110917—Internet Technologies B****Grade Level:** 12**Credit:** .5**Course Description:** Provides students with a study of traditional and emerging Internet technologies. Covers topics including Internet fundamentals, Internet applications, Internet delivery systems, and Internet client/server computing. Provides a hands-on experience and some rudimentary programming in an Internet environment.**110711—AP Computer Science Principles A****Grade Level:** 12**Credit:** .5**Course Description:** This course is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. Through both its content and pedagogy, this course aims to appeal to a broad audience. Teachers select the programming language(s) that is most appropriate for their students. Students spend at least 20 hours programming and applying learned concepts through programming. Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.**110711—AP Computer Science Principles B****Grade Level:** 12**Credit:** .5**Course Description:** This course is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. Through both its content and pedagogy, this course aims to appeal to a broad audience. Teachers select the programming language(s) that is most appropriate for their students. Students spend at least 20 hours programming and applying learned concepts through programming. Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.

# HEALTH SCIENCE PATHWAY OFFERINGS

Outlined in the table below are all pathways for students interested in a future in Health Science. These pathways should follow a proper course sequence. Upon completion of three credits students will be able to sit for the appropriate KOSSA certification. Additional industry certifications will be offered for some pathways. **Courses may be taken out of approved pathway as additional elective options with teacher permission ONLY.**

<b>HEALTH SCIENCE PATHWAYS</b>		
<b>Allied Health Pathway:</b> A general, introductory, undifferentiated, or joint program in health services occupations that prepares individuals for either entry into specialized training programs or for a variety of concentrations in the allied health area. Includes instruction in the basic sciences, research and clinical procedures, and aspects of the subject matter related to various health occupations.		
1 <sup>st</sup> year	170111	Principles of Health Science
2 <sup>nd</sup> year	170167	Body Structures & Functions
3 <sup>rd</sup> year	170131	Medical Terminology
3 <sup>rd</sup> year	170141	Emergency Procedures
4 <sup>th</sup> year	170591	Special Topics: Physical Therapy Technician and Aquatic Arthritis Aide
<b>Certifications for Pathway:</b> NOCTI Healthcare Core Exam		
<b>PLTW Biomedical Pathway:</b> A general, program that focuses on the integrative scientific study of biological issues related to health and medicine, or a program in one or more of the biomedical sciences that is undifferentiated as to title. Includes instruction in any of the basic medical sciences at the research level; biological science research in biomedical faculties; and general studies encompassing a variety of the biomedical disciplines.		
1 <sup>st</sup> year	170701	Principles of Biomedical Services
2 <sup>nd</sup> year	170702	Human Body Systems
3 <sup>rd</sup> year	170703	Medical Interventions
4 <sup>th</sup> year	170704	Biomedical Innovations
<b>Certifications for Pathway:</b> NOCTI Biotechnology Exam		
<b>Pre-Nursing Pathway:</b> A program that prepares individuals for admission to a professional program in Nursing.		
1 <sup>st</sup> year	170111	Principles of Health Science
2 <sup>nd</sup> year	170167	Body Structures & Functions
3 <sup>rd</sup> year	170131	Medical Terminology
3 <sup>rd</sup> year	170141	Emergency Procedures
4 <sup>th</sup> year	170631	Medicaid Nurse Aide
<b>Certifications for Pathway:</b> State Registered Nursing Assistant (SRNA)/Medicaid Nurse Aide (MNA)		

## 170111—Principles of Health Science A

**Grade Level:** 9-12

**Credits:** .5

**Course Description:** Principles of Health Science is an orientation and foundation for occupations and functions in any health care profession. The course includes broad health care core standards that specify the knowledge and skills needed by the vast majority of health care workers. The course focuses on exploring health career options, history of health care, ethical and legal responsibilities, leadership development, safety concepts, health care systems and processes and basic health care industry skills. This introductory course may be a prerequisite for additional courses in the Health Science program.

## 170111—Principles of Health Science B

**Grade Level:** 9-12

**Credits:** .5

**Course Description:** Principles of Health Science is an orientation and foundation for occupations and functions in any health care profession. The course includes broad health care core standards that specify the knowledge and skills needed by the vast majority of health care workers. The course focuses on exploring health career options, history of health care, ethical and legal responsibilities, leadership development, safety concepts, health care systems and processes and basic health care industry skills. This introductory course may be a prerequisite for additional courses in the Health Science program.

### **170701—Principles of Biomedical Science A**

**Grade Level:** 9

**Credits:** .5

**Course Description:** 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, feedback 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 Science program and to lay the scientific foundation necessary for student success in the subsequent courses.

### **170701—Principles of Biomedical Science B**

**Grade Level:** 9

**Credits:** .5

**Course Description:** 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, feedback 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 Science program and to lay the scientific foundation necessary for student success in the subsequent courses.

### **170167—Body Structures and Functions A**

**Grade Level:** 10-12

**Credits:** .5

**Course Description:** Body Structures and Functions (formerly Basic Anatomy and Physiology) is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy. The interactions of all body systems in maintaining homeostasis will promote an understanding of the basic human needs necessary for health maintenance. Academic knowledge from life science core content as it relates to the human body will be included. Laboratory activities should be a part of the course when appropriate.

### **170167—Body Structures and Functions B**

**Grade Level:** 10-12

**Credits:** .5

**Course Description:** Body Structures and Functions (formerly Basic Anatomy and Physiology) is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy. The interactions of all body systems in maintaining homeostasis will promote an understanding of the basic human needs necessary for health maintenance. Academic knowledge from life science core content as it relates to the human body will be included. Laboratory activities should be a part of the course when appropriate.

### **170702—Human Body Systems A**

**Grade Level:** 10

**Credits:** .5

**Course Description:** Students will 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 will be studied as "parts of a whole," working together to keep the amazing human machine functioning at an optimal level. Students will 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 will work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

### **170702—Human Body Systems B**

**Grade Level:** 10

**Credits:** .5

**Course Description:** Students will 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 will be studied as "parts of a whole," working together to keep the amazing human machine functioning at an optimal level. Students will 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 will work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries.

### **170141—Emergency Procedures A**

**Grade Level:** 11-12

**Credits:** .5

**Course Description:** This course will focus on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will demonstrate the necessary skills in First Aid and Cardiopulmonary Resuscitation (CPR) and will be given the opportunity to take the completion examination as outlined by the sponsoring agency. **Dual Credit Course taught at Holmes High School.**

### **170131—Medical Terminology A**

**Grade Level:** 11-12

**Credits:** .5

**Course Description:** Medical Terminology is designed to develop a working knowledge of language in all health science major areas. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. Students will learn correct pronunciation, spelling and application rules. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care. **Dual Credit Course taught at Holmes High School.**

### **170703—Medical Interventions A**

**Grade Level:** 11

**Credits:** .5

**Course Description:** Student projects will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They will review the history of organ transplants and gene therapy, and read current scientific literature to be aware of cutting edge developments. Using 3-D imaging software and current scientific research students will design and build a model of a therapeutic protein.

### **170703—Medical Interventions B**

**Grade Level:** 11

**Credits:** .5

**Course Description:** Student projects will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They will review the history of organ transplants and gene therapy, and read current scientific literature to be aware of cutting edge developments. Using 3-D imaging software and current scientific research students will design and build a model of a therapeutic protein.

### **170704—Biomedical Innovations A**

**Grade Level:** 12

**Credits:** .5

**Course Description:** This capstone course gives student teams the opportunity to work with a mentor, identify a science research topic, conduct research, write a scientific paper, and defend team conclusions and recommendations to a panel of outside reviewers. Each team will have one or more mentors from the scientific and/or medical community guiding their scientific research. This course may be combined with the capstone course from the pre-engineering pathway, allowing students from both pathways to work together to engineer a product that could impact healthcare.

### **170704—Biomedical Innovations B**

**Grade Level:** 12

**Credits:** .5

**Course Description:** This capstone course gives student teams the opportunity to work with a mentor, identify a science research topic, conduct research, write a scientific paper, and defend team conclusions and recommendations to a panel of outside reviewers. Each team will have one or more mentors from the scientific and/or medical community guiding their scientific research. This course may be combined with the capstone course from the pre-engineering pathway, allowing students from both pathways to work together to engineer a product that could impact healthcare.

### **170631—Medicaid Nurse Aide A**

**Grade Level:** 12

**Credits:** .5

**Course Description:** An instructional program that prepares individuals to perform routine nursing-related services to patients in hospitals or long-term care facilities under the training and supervision of an approved registered nurse. State Registry is available upon successful completion of state written and performance examination. Prior to offering this course, the instructor and health science program must be approved for meeting state requirements set by the Cabinet for Health and Family Services. **This course is taught at Gateway Career & Technical College Campus.**

**170591 Special Topics in Allied Health: Physical Therapy Technician and Aquatic Arthritis Aide A**

**Grades 12**

**Credits: .5**

**Course Description:** An instructional program that emphasizes on preparing the patient and treatment area to help patients recovering from injuries and illnesses to regain and manage pain. Will received gait training, transportation techniques, rehabilitation principles, etc. Students will be prepared for national assessments.

**170591 Special Topics in Allied Health: Physical Therapy Technician and Aquatic Arthritis Aide B**

**Grades 12**

**Credits: .5**

**Course Description:** An instructional program that emphasizes on preparing the patient and treatment area to help patients recovering from injuries and illnesses to regain and manage pain. Will received gait training, transportation techniques, rehabilitation principles, etc. Students will be prepared for national assessments.

# CONSTRUCTION PATHWAY OFFERINGS

Outlined in the table below are all pathways for students interested in a future in Construction. This pathway should follow a proper course sequence. Upon completion of three credits students will be able to sit for the appropriate KOSSA certification. Additional industry certifications will be offered as well. **Courses may be taken out of approved pathway as additional elective options with teacher permission ONLY.**

<b>CONSTRUCTION PATHWAY</b>		
<b>Residential Carpenter Assistant Pathway:</b> <i>This pathway is designed as a pre-apprenticeship pathway for students to have the opportunity to enter a Registered Apprenticeship training program upon graduation. This Skilled Trades TRACK does not require an employer partner. Students must successfully complete the four course sequence, eight safety modules and an end of program assessment. Upon conclusion, the instructor will fill out a completion form and submit to OCTE. After being processed, the student will receive pre-apprenticeship industry certification issued by the Kentucky Labor Cabinet. This certification will be recognized by participating partners for an interview and possible credit upon placement. Credit is at the discretion of the training organization.</i>		
1 <sup>st</sup> year	460201	Introduction to Construction Technology
2 <sup>nd</sup> year	460212	Floor & Wall Framing
3 <sup>rd</sup> year	460213	Ceiling & Roof Framing
4 <sup>th</sup> year	460214	Site Layout and Foundations
4 <sup>th</sup> year	460242	Carpentry Co-Op** <i>[Must meet GPA, Attendance, and Behavior Guidelines; Must be enrolled in Exterior and Interior Finish during same year]</i>
<b>Certifications for Pathway:</b> NCCER Core Curriculum <b>AND</b> NCCER Construction Carpentry (Level 1)		

## **460201—Introduction to Construction Technology A**

**Grade Level:** 9-12

**Credits:** .5

**Course Description:** This course is the introduction to the construction carpentry industry. The class will emphasize safe and proper methods of operating hand tools, portable power tools, and stationary power tools in the construction industry.

## **460201—Introduction to Construction Technology B**

**Grade Level:** 9-12

**Credits:** .5

**Course Description:** This course is the introduction to the construction carpentry industry. The class will emphasize safe and proper methods of operating hand tools, portable power tools, and stationary power tools in the construction industry.

## **460212—Floor and Wall Framing A**

**Grade Level:** 10-12

**Credits:** .5

**Course Description:** The student will practice floor framing, layout, and construction of floor frames. Cutting and installing floor and wall framing members according to plans and specifications will also be practiced.

## **460212—Floor and Wall Framing B**

**Grade Level:** 10-12

**Credits:** .5

**Course Description:** The student will practice floor framing, layout, and construction of floor frames. Cutting and installing floor and wall framing members according to plans and specifications will also be practiced.

*More Construction course offerings continued on next page.*

**460213—Ceiling and Roof Framing A****Grade Level:** 11-12**Credits:** .5**Course Description:** This course covers roof types and combinations of roof types used in the construction industry. The emphasis of this course is on layout, cutting and installing ceiling joists, rafters, roof sheathing, and roof coverings for both commercial and residential construction.**460213—Ceiling and Roof Framing B****Grade Level:** 11-12**Credits:** .5**Course Description:** This course covers roof types and combinations of roof types used in the construction industry. The emphasis of this course is on layout, cutting and installing ceiling joists, rafters, roof sheathing, and roof coverings for both commercial and residential construction.**460214—Site and Layout Foundations A****Grade Level:** 12**Credit:** .5**Course Description:** This course allows students to prepare materials, calculate the cost for a building site, and layout a site with a transit, locating property lines and corners. Students calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.**460214—Site and Layout Foundations B****Grade Level:** 12**Credit:** .5**Course Description:** This course allows students to prepare materials, calculate the cost for a building site, and layout a site with a transit, locating property lines and corners. Students calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.**460242—Co-Op (Carpentry) A****Grade Level:** 12**Credits:** .5**Course Description:** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.**460242—Co-Op (Carpentry) B****Grade Level:** 12**Credits:** .5**Course Description:** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

# ADVANCED MANUFACTURING PATHWAY OFFERINGS

Outlined in the table below are all pathways for students interested in a future in Advanced Manufacturing. This pathway should follow a proper course sequence. Upon completion of three credit courses students will be able to sit for the appropriate KOSSA certification. Additional industry certifications will be offered as well. **Courses may be taken out of approved pathway as additional elective options with teacher permission ONLY.**

<b>ADVANCED MANUFACTURING PATHWAY</b>		
<b>Combination Arc Welder Pathway:</b> <i>Combination Arc Welders set up and align materials to be joined by either the Shielded Metal Arc (SMAW) or Gas Metal Arc welding process. Welds together metal components of products in an assembly setting, such as automobiles, appliances, and aircraft, as specified by layout, blueprints, diagrams, work order, procedures, or oral instructions, using the Gas Metal Arc welding process. Welds together structural steel components in a construction setting using the Shielded Metal Arc (SMAW) process. Must be knowledgeable of the required geometry and physical properties of the materials to be welded and capable of passing required weld certifications.</i>		
1 <sup>st</sup> year	480501 AND 480505	Cutting Processes AND Blueprint Reading for Welding
2 <sup>nd</sup> year	480521	Shielded Metal Arc Welding (SMAW)
3 <sup>rd</sup> year	480522	Gas Metal Arc Welding (GMAW)
4 <sup>th</sup> year	480525	Gas Tungsten Arc Welding (GTAW)
4 <sup>th</sup> year	480547	Welding Co-Op** <i>[Must meet GPA, Attendance, and Behavior Guidelines; Must be enrolled in Gas Metal Arc Welding during same year]</i>
<b>Certification for Pathway:</b> Kentucky Department of Transportation 3-G <b>OR</b> AWS—Sense Certification (Level 1) <b>OR</b> 2-F (AWS) Qualification Certification		

## **480521—Cutting Processes A**

**Grade Level: 9-11**

**Credit: .5**

**Course Description:** This course will provide knowledge of various cutting processes used in the welding industry as well as safety, theory of operation, setup and operating techniques, troubleshooting and making minor equipment repairs. Also discussed will be identification, evaluation, repair and prevention of discontinuities of cut surfaces. Oxy-fuel, plasma arc, exothermic, air carbon arc, shielded metal arc and mechanical cutting processes are introduced. Using hands on learning experiences, the student with practical experiences to become proficient in the use of various metal cutting processes. Safety, setup, and operating techniques are employed. Students will troubleshoot and make repairs to equipment as well as identify and repair cut surface discontinuities. **Dual Credit Course taught at Holmes High School.**

## **480505—Blueprint Reading for Welding A**

**Grade Level: 9-11**

**Credit: .5**

**Course Description:** Provided a study of occupationally specific prints for welders. Advanced study of multi-view drawing, assembly drawings, datum dimensions, numerical control drawings, sheet metal prints, casting and forgings, instrumentation and control charts and diagrams, working drawings, geometric dimensioning and tolerance and use of reference materials and books are included. Occupational specifics including welding drawings, symbols, joint types, grooves, pipe welding symbols, testing symbols, and specification interpretations are stressed. **Dual Credit Course taught at Holmes High School.**

*More Welding course offerings continued on next page.*

#### **480521—Shielded Metal Arc Welding A**

**Grade Level: 10-12**

**Credit: .5**

**Course Description:** This course teaches students the identification, inspection and maintenance of SMAW electrodes, principles of SMAW; the effects of variables on the SMAW process to weld plate and pipe and metallurgy while providing course provides laboratory experiences in which the student acquires the manipulative skills to perform fillet welds in all positions. **Dual Credit Course taught at Holmes High School.**

#### **480521—Shielded Metal Arc Welding B**

**Grade Level: 10-12**

**Credit: .5**

**Course Description:** This course teaches students the identification, inspection and maintenance of SMAW electrodes, principles of SMAW; the effects of variables on the SMAW process to weld plate and pipe and metallurgy while providing course provides laboratory experiences in which the student acquires the manipulative skills to perform fillet welds in all positions. **Dual Credit Course taught at Holmes High School.**

#### **480522—Gas Metal Arc Welding A**

**Grade Level: 11-12**

**Credit: .5**

**Course Description:** This course covers identification, inspection, and maintenance of GMAW machines; identification selection and storage of GMAW electrodes; principles of GMAW; and the effects of variables on the GMAW process. Theory and applications of related processes such as FCAW and SAW and metallurgy are also included. Students learn the practical application and manipulative skills of Gas Metal Arc Welding and the proper safety situations needed in this process. Both ferrous and non-ferrous metals will be covered, as well as various joint designs on plate in all positions. **Dual Credit Course taught at Holmes High School.**

#### **480522—Gas Metal Arc Welding B**

**Grade Level: 11-12**

**Credit: .5**

**Course Description:** This course covers identification, inspection, and maintenance of GMAW machines; identification selection and storage of GMAW electrodes; principles of GMAW; and the effects of variables on the GMAW process. Theory and applications of related processes such as FCAW and SAW and metallurgy are also included. Students learn the practical application and manipulative skills of Gas Metal Arc Welding and the proper safety situations needed in this process. Both ferrous and non-ferrous metals will be covered, as well as various joint designs on plate in all positions. **Dual Credit Course taught at Holmes High School.**

#### **480525—Gas Tungsten Arc Welding A**

**Grade Level: 12**

**Credit: .5**

**Course Description:** This course provides instruction in identification, inspection, maintenance of GTAW machines and the selection/storage of GTAW electrodes. The course will teach students the effects of variables on the GTAW process and metallurgy. Also included will be the theory and application of plasma arc cutting. Hands on activities will teach the necessary manipulative skills needed to apply the gas tungsten arc on various joint designs on plates with both ferrous and non-ferrous metals. Plasma arc cutting is included. **Dual Credit Course taught at Holmes High School.**

#### **480525—Gas Tungsten Arc Welding B**

**Grade Level: 12**

**Credit: .5**

**Course Description:** This course provides instruction in identification, inspection, maintenance of GTAW machines and the selection/storage of GTAW electrodes. The course will teach students the effects of variables on the GTAW process and metallurgy. Also included will be the theory and application of plasma arc cutting. Hands on activities will teach the necessary manipulative skills needed to apply the gas tungsten arc on various joint designs on plates with both ferrous and non-ferrous metals. Plasma arc cutting is included. **Dual Credit Course taught at Holmes High School.**

#### **480547—Co-Op (Welding) A**

**Grade Level: 12**

**Credits: .5**

**Course Description:** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

#### **480547—Co-Op (Welding) B**

**Grade Level: 12**

**Credits: .5**

**Course Description:** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

# MEDIA ARTS PATHWAY OFFERINGS

Outlined in the table below are all pathways for students interested in a future in Media Arts. This pathway should follow a proper course sequence. Upon completion of three credit courses students will be able to sit for the appropriate KOSSA certification. Additional industry certifications will be offered as well. **Courses may be taken out of approved pathway as additional elective options with teacher permission ONLY.**

<b>MEDIA ARTS PATHWAYS</b>		
<b>Graphic Design Pathway:</b> <i>This career pathway prepares students to apply Media Arts skills that focus on the general principals and techniques for effectively communicating ideas and information, and packaging products, in digital and other formats to business and consumer audiences, and that may prepare individuals in any of the applied art media, including: aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation and programming of interactive experiences; their transmission, distribution and marketing, as well as contextual, cultural and historical aspects and considerations.</i>		
1 <sup>st</sup> year	480901	Introduction to Media Arts
2 <sup>nd</sup> year	480920	Two-Dimensional Media
3 <sup>rd</sup> year	480921	Digital Imaging
4 <sup>th</sup> year	480922	Advanced Production Design
4 <sup>th</sup> year	480950	Media Arts Co-Op** <i>[Must meet GPA, Attendance, and Behavior Guidelines; Must be enrolled in Advanced Production Design during same year]</i>
<b>Certifications for Pathway:</b> Graphic Design EOP Exam <b>OR</b> Adobe Certified Associate—InDesign <b>AND</b> Adobe Certified Associate—Illustrator		

<b>Interactive Media Pathway:</b> <i>The Interactive Media pathway prepares students to use computer applications and related visual and sound imaging techniques to manipulate images and information originating as video, still photographs, digital copy, soundtracks, and physical objects in order to communicate messages simulating real-world content. The pathway includes instruction in specialized camerawork and equipment operation and maintenance, image capture, computer applications, dubbing, and applications to specific commercial, industrial, and entertainment needs. Topics of study in this pathway include aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation and programming of interactive experiences; transmission, distribution and marketing; contextual, cultural and historical aspects and considerations.</i>		
1 <sup>st</sup> year	480901	Introduction to Media Arts
2 <sup>nd</sup> year	480902	Interactive Design
3 <sup>rd</sup> year	480903	Moving Image Animation
4 <sup>th</sup> year	480904	Virtual Design
4 <sup>th</sup> year	480950	Media Arts Co-Op** <i>[Must meet GPA, Attendance, and Behavior Guidelines; Must be enrolled in Advanced Production Design during same year]</i>
<b>Certifications for Pathway:</b> Digital Design and Game Development EOP Exam <b>OR</b> Adobe Certified Associate—Illustrator <b>AND</b> Adobe Certified Associate—Photoshop		

*Media Arts course offerings and descriptions begin on next page.*

#### **480901—Introduction to Media Arts A**

**Grade Level:** 9-12

**Credits:** .5

**Course Description:** This course provides an introduction to and survey of the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various and combined mediums and forms, including moving image, sound, interactive, spatial and/or interactive design. Typical course topics include: aesthetic meaning, appreciation and analysis; composing, capturing, processing and programming of media arts products, experiences and communications; their transmission, distribution and marketing; as well as contextual, cultural, and historical aspects and considerations.

#### **480901—Introduction to Media Arts B**

**Grade Level:** 9-12

**Credits:** .5

**Course Description:** This course provides an introduction to and survey of the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various and combined mediums and forms, including moving image, sound, interactive, spatial and/or interactive design. Typical course topics include: aesthetic meaning, appreciation and analysis; composing, capturing, processing and programming of media arts products, experiences and communications; their transmission, distribution and marketing; as well as contextual, cultural, and historical aspects and considerations.

#### **480902—Interactive Design A**

**Grade Level:** 10-12

**Credits:** .5

**Prerequisite:** Introduction to Media Arts

**Course Description:** The creative and conceptual aspects of designing and producing interactive media arts experiences, products and services, including reactive (sensory-based [touch, proximity, movement, etc.] devices) and interactive technologies, 3D video game animation, interface design, mobile device applications, web multimedia, social media based, augmented, and/or virtual reality. Typical course topics include: aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation and programming of interactive experiences; their transmission, distribution and marketing, as well as contextual, cultural and historical aspects and considerations.

#### **480902—Interactive Design B**

**Grade Level:** 10-12

**Credits:** .5

**Prerequisite:** Introduction to Media Arts

**Course Description:** The creative and conceptual aspects of designing and producing interactive media arts experiences, products and services, including reactive (sensory-based [touch, proximity, movement, etc.] devices) and interactive technologies, 3D video game animation, interface design, mobile device applications, web multimedia, social media based, augmented, and/or virtual reality. Typical course topics include: aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation and programming of interactive experiences; their transmission, distribution and marketing, as well as contextual, cultural and historical aspects and considerations.

#### **480920—Two-Dimensional Media Design A**

**Grade Level:** 10-12

**Credits:** .5

**Course Description:** A proficient study and production of creative and conceptual aspects of designing and producing digital imagery, graphics and photography, including techniques, genres and styles from fine arts and commercial advertising, internet and multimedia, web design, industrial and virtual design. Students use a computer as an electronic drawing tool to solve visual communications and illustration problems in designing products. This course entails the use of current software for two-dimensional illustration, creating and integrating text, using color, and importing and exporting files, including Vector and Raster Images. Typical course topics include: aesthetic meaning, appreciation and analysis; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution and marketing; as well as contextual, cultural and historical aspects and considerations.

#### **480920—Two-Dimensional Media Design B**

**Grade Level:** 10-12

**Credits:** .5

**Course Description:** A proficient study and production of creative and conceptual aspects of designing and producing digital imagery, graphics and photography, including techniques, genres and styles from fine arts and commercial advertising, internet and multimedia, web design, industrial and virtual design. Students use a computer as an electronic drawing tool to solve visual communications and illustration problems in designing products. This course entails the use of current software for two-dimensional illustration, creating and integrating text, using color, and importing and exporting files, including Vector and Raster Images. Typical course topics include: aesthetic meaning, appreciation and analysis; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution and marketing; as well as contextual, cultural and historical aspects and considerations.

#### **480921—Digital Imaging A**

**Grade Level:** 11-12

**Credits:** .5

**Course Description:** This course provides an accomplished study and production of creative and conceptual aspects of designing and producing digital imagery, graphics and photography, including techniques, genres and styles from fine arts and commercial advertising, internet and multimedia, web design, industrial and virtual design. Students use a computer as an electronic drawing tool to solve visual communications and illustration problems in designing authentic products. This course entails an accomplished use of current software for two-dimensional illustration, creating and integrating text, using color, and importing and exporting files. Typical course topics include: aesthetic meaning and analysis of computer generated works; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution and marketing; as well as contextual, cultural and historical aspects and considerations.

#### **480921—Digital Imaging B**

**Grade Level:** 11-12

**Credits:** .5

**Course Description:** This course provides an accomplished study and production of creative and conceptual aspects of designing and producing digital imagery, graphics and photography, including techniques, genres and styles from fine arts and commercial advertising, internet and multimedia, web design, industrial and virtual design. Students use a computer as an electronic drawing tool to solve visual communications and illustration problems in designing authentic products. This course entails an accomplished use of current software for two-dimensional illustration, creating and integrating text, using color, and importing and exporting files. Typical course topics include: aesthetic meaning and analysis of computer generated works; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution and marketing; as well as contextual, cultural and historical aspects and considerations.

#### **480903—Moving Image Animation A**

**Grade Level:** 11-12

**Credits:** .5

**Course Description:** This course introduces students to the creative and conceptual aspects of designing and producing animated images for a variety of storytelling and multimedia presentations (e.g., dramatic narratives; artistic and experimental presentations and/or installations; ambient, interactive, immersive and performance media).

#### **480903—Moving Image Animation B**

**Grade Level:** 11-12

**Credits:** .5

**Course Description:** This course introduces students to the creative and conceptual aspects of designing and producing animated images for a variety of storytelling and multimedia presentations (e.g., dramatic narratives; artistic and experimental presentations and/or installations; ambient, interactive, immersive and performance media).

#### **480922—Advanced Production Design A**

**Grade Level:** 12

**Credits:** .5

**Course Description:** Advanced Production Design emphasizes an advanced and independent use of compositional theory, elements and principles of design, techniques and creative processes for effectively performing the function of persuasion and information through use of materials and media to create visual effects to produce original authentic works. Students will demonstrate an advanced level of creative expression to a variety of authentic design products (e.g. various print mediums such as magazines, newspapers, billboards, fictional and informational texts, product wrappers, displays, etc.) through a purposeful arrangement of images and/or text and develop a strategic product presentation both independently and as a collaborative team. The course focuses on advanced computer generated designs as well as the use of various software and hardware; with an emphasis on students creating, producing, responding and connecting on/in visual art and new media. An in-depth independent student of career opportunities in media art is performed. Contemporary, cultural, and historical design may be studied.

#### **480922—Advanced Production Design B**

**Grade Level:** 12

**Credits:** .5

**Course Description:** Advanced Production Design emphasizes an advanced and independent use of compositional theory, elements and principles of design, techniques and creative processes for effectively performing the function of persuasion and information through use of materials and media to create visual effects to produce original authentic works. Students will demonstrate an advanced level of creative expression to a variety of authentic design products (e.g. various print mediums such as magazines, newspapers, billboards, fictional and informational texts, product wrappers, displays, etc.) through a purposeful arrangement of images and/or text and develop a strategic product presentation both independently and as a collaborative team. The course focuses on advanced computer generated designs as well as the use of various software and hardware; with an emphasis on students creating, producing, responding and connecting on/in visual art and new media. An in-depth independent student of career opportunities in media art is performed. Contemporary, cultural, and historical design may be studied.

**480904—Virtual Design A****Grade Level:** 12**Credits:** .5

**Course Description:** This course introduces students to the creative and conceptual aspects of designing and producing simulative and virtual, 3D media arts experiences, products and services for storytelling and multimedia presentations (e.g., dramatic narratives; artistic and experimental presentations and/or installations; ambient, interactive, immersive and performance media).

**480904—Virtual Design B****Grade Level:** 12**Credits:** .5

**Course Description:** This course introduces students to the creative and conceptual aspects of designing and producing simulative and virtual, 3D media arts experiences, products and services for storytelling and multimedia presentations (e.g., dramatic narratives; artistic and experimental presentations and/or installations; ambient, interactive, immersive and performance media).

**480950—Co-Op (Media Arts) A****Grade Level:** 12**Credits:** .5

**Course Description:** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

**480950—Co-Op (Media Arts) B****Grade Level:** 12**Credits:** .5

**Course Description:** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

**480910 Video Studio Fundamentals A****Grades 10-12****Credits:** .5

**Course Description:** This course will expose students to the materials, processes, and artistic techniques involved in creating video productions. Students learn about the operation of cameras, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture and editing techniques. Course topics may include production values and various forms/styles of video production (e.g., documentary, storytelling, news magazines, animation, etc.) Students will create a weekly newscast for the student body.

**480910 Video Studio Fundamentals B****Grades 10-12****Credits:** .5

**Course Description:** This course will expose students to the materials, processes, and artistic techniques involved in creating video productions. Students learn about the operation of cameras, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture and editing techniques. Course topics may include production values and various forms/styles of video production (e.g., documentary, storytelling, news magazines, animation, etc.) Students will create a weekly newscast for the student body.

**239611 Sports Broadcasting A****Grades 10-12****Credits:** .5

**Course Description:** This course will expose students to the materials, processes, and artistic techniques involved in creating a sports broadcasting. Students learn about the roles of sports broadcasters as they produce a live broadcast of Holmes sporting events. Students MUST be available the evenings of Holmes sporting events.

**239611 Sports Broadcasting B****Grades 10-12****Credits:** .5

**Course Description:** This course will expose students to the materials, processes, and artistic techniques involved in creating a sports broadcasting. Students learn about the roles of sports broadcasters as they produce a live broadcast of Holmes sporting events. Students MUST be available the evenings of Holmes sporting events.

*More Media Arts course offerings continued on next page.*

**500611 Photography A**

**Grade 10-12**

**Credits: .5**

**Course Description:** This course engages students in learning opportunities for applying photographic media, techniques, and processes. These courses focus on development of photographic compositions through manipulation of the elements of art and principles of design. Students learn to make meaningful visual statements with emphasis on personal creative expression to communicate ideas, feeling, or values. The history of photography, historic movements, image manipulation, critical analysis, and some creative special effects may also be included. Students will engage in critiques of their images, the works of other students, and those by professional photographers.

**500611 Photography B**

**Grade 10-12**

**Credits: .5**

**Course Description:** This course engages students in learning opportunities for applying photographic media, techniques, and processes. These courses focus on development of photographic compositions through manipulation of the elements of art and principles of design. Students learn to make meaningful visual statements with emphasis on personal creative expression to communicate ideas, feeling, or values. The history of photography, historic movements, image manipulation, critical analysis, and some creative special effects may also be included. Students will engage in critiques of their images, the works of other students, and those by professional photographers.

# LEADERSHIP EDUCATION (MCJROTC) PATHWAY OFFERINGS

Outlined in the table below are all pathways for students interested in a future in Marine Corps Junior Reserve Officer Training Corps. This pathway should follow a proper course sequence. Upon completion of three credit courses students will be able to sit for ASVAB Test.

<b>LEADERSHIP EDUCATION (MCJROTC) PATHWAYS</b>		
<b>MCJROTC Pathway:</b> A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NROTC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.		
1 <sup>st</sup> year	580320	Marine Corps JROTC 1
2 <sup>nd</sup> year	580321	Marine Corps JROTC 2
3 <sup>rd</sup> year	580322	Marine Corps JROTC 3
4 <sup>th</sup> year	580323	Marine Corps JROTC 4
<b>Certifications for Pathway:</b> JROTC Certificate of Training (3 or 4 Year)		

## **580320—Marines JROTC 1 A**

**Grade Level:** 9-12

**Credit:** .5

**Course Description:** A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NROTC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.

## **580320—Marines JROTC 1 B**

**Grade Level:** 9-12

**Credit:** .5

**Course Description:** A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NROTC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.

## **580321—Marines JROTC 2 A**

**Grade Level:** 10-12

**Credit:** .5

**Prerequisite:** Level 1

**Course Description:** A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NROTC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.

## **580321—Marines JROTC 2 B**

**Grade Level:** 10-12

**Credit:** .5

**Prerequisite:** Level 1

**Course Description:** A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NROTC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.

*More Leadership/MCJROTC course offerings continued on next page.*

**580322—Marines JROTC 3 A**

**Grade Level:** 11-12

**Credit:** .5

**Prerequisite:** Level 2

**Course Description:** A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NRTOC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.

**580322—Marines JROTC 3 B**

**Grade Level:** 11-12

**Credit:** .5

**Prerequisite:** Level 2

**Course Description:** A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NRTOC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.

**580323—Marines JROTC 4 A**

**Grade Level:** 12

**Credit:** .5

**Prerequisite:** Level 3

**Course Description:** A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NRTOC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.

**580323—Marines JROTC 4 B**

**Grade Level:** 12

**Credit:** .5

**Prerequisite:** Level 3

**Course Description:** A program that introduces students to the theory and practice of naval science, life in the U.S. Marines Corps, and prepares them for cadet status (Junior ROTC or JROTC) or for service as commissioned reserve or active duty officers (senior NRTOC or ROTC). Programs are offered as adjuncts to regular high school or college instructional programs.

