

Hopkins High School



Course Catalog 2023-2024

INDEX

<i>Graduation Requirements.....</i>	<i>Page 3</i>
<i>English Department.....</i>	<i>Page 4</i>
<i>Math Department.....</i>	<i>Page 7</i>
<i>Science Department.....</i>	<i>Page 10</i>
<i>Social Studies Department.....</i>	<i>Page 14</i>
<i>Art Department.....</i>	<i>Page 18</i>
<i>Foreign Language Department.....</i>	<i>Page 20</i>
<i>Music Department.....</i>	<i>Page 22</i>
<i>Physical Education Department.....</i>	<i>Page 24</i>
<i>Technology Department.....</i>	<i>Page 26</i>
<i>Elective and Career Path Opportunities.....</i>	<i>Page 29</i>
<i>Appendix A (Allegan County Area Technical Education Center).....</i>	<i>Page 32</i>
<i>Appendix B (College Credits Overview)</i>	<i>Page 33</i>

Hopkins High School Graduation **Requirements**

Michigan Merit Curriculum (MMC) **State of Michigan Requirements**

English Language Arts- 4 Credits

English 9, 10, 11 (OR AP Language), 12 (OR AP Language OR AP Literature)

Mathematics- 4 Credits

Algebra I, Geometry, Algebra II plus one credit of math taken Senior Year

Science- 3.5 Credits

Intro to Chemistry, Intro to physics, Earth Science, Biology and either Chemistry OR Physics OR A.P. Physics

Social Studies- 3 Credits

.5 Credit in Government, .5 Credit in Economics, 1 Credit in U.S. History and Geography OR A.P. U.S. History, 1 Credit in World History and Geography

Physical Education and Health- 1 Credit

Must take basic PE

Visual, Performing and Applied Arts- 1 Credit

Online Learning Experience

Foreign Language- 2 Credits

Total Credits Required for Graduation: 27.5

High School Courses are scheduled by Trimester. Each Trimester counts as .5 credit.

ENGLISH DEPARTMENT

All students must successfully complete four (4) English credits in order to fulfill graduation requirements. English 9 A/B and 10 A/B are required for graduation. For the final two English credits needed for graduation, juniors may take AP Literature A/B/C, or English 11A/B, and seniors may take AP Literature A/B/C, AP Language A/B/C, or English 12 A/B. Electives may only be taken ONCE. Repeats are not allowed. Core English classes ONLY will be accepted for credit. Each elective may only be taken for elective credit.

English Department Flow Chart of Classes

Required Classes	English Department Flow Chart of Classes			
	English 9 <i>2 Trimesters</i>	English 10 <i>2 Trimesters</i> <i>Prerequisite: English 9</i>	English 11* <i>2 Trimesters</i> <i>Prerequisite: English 10</i> <i>*Can be replaced by AP Language or AP Literature</i>	English 12* <i>2 Trimesters</i> <i>Prerequisite: English 11 or AP Language</i> <i>*Can be replaced by AP Language OR AP Literature.</i>
Additional Electives <i>Pathway Options</i>	College/Scholarship Applications and Essays <i>1 Trimester</i> <i>Grades 11, 12</i>	Collision of Novels and Films <i>1 Trimester</i> <i>Grades 9-12</i>	Creative Writing: Fiction <i>1 Trimester</i> <i>Grades 9-12</i>	Everyone Loves a Mystery <i>1 Trimester</i> <i>Grades 10, 11, 12</i> <i>Prerequisite: English 9</i>
	Mythology <i>1 Trimester</i> <i>Grades 10, 11, 12</i> <i>Prerequisite: English 9</i>	Speech <i>1 Trimester</i> <i>Grades 9-12</i>	Survey of Short Stories <i>1 Trimester</i> <i>Grades 10, 11, 12</i> <i>Prerequisite: English 9</i>	
AP and LMC Classes <i>Weighted on a 5.0 grading scale</i>	AP Language <i>3 Trimesters</i> <i>Grades 11 and 12</i> <i>Prerequisites: B- or Better in English classes, Department Approval</i> <i>This course may replace English 11 OR 12.</i>		AP Literature <i>3 Trimesters</i> <i>Grade 11 and 12</i> <i>Prerequisites: B- or Better in English classes, Department Approval</i> <i>This course may replace English 12.</i>	

ENGLISH 9 A and B (Required)

1 credit

Grade 9

2 Trimesters

Students will explore multiple genres of literature, including novels, short stories, and drama. They will also apply the elements of good writing and work on grammar. Students will exit with an understanding of how to read and comprehend multiple types of literature as well as be able to successfully write multiple types of composition.

ENGLISH 10 A and B (Required)

1 credit

Grade 10

2 Trimesters

Prerequisites: English 9A and English 9B

Students will explore multiple genres of literature, including novels, short stories, poetry, and drama. They will study elements of fiction, themes of literature, and literary elements. They will also apply the elements of good writing and improve vocabulary and grammar skills. Students will exit with an understanding of how to read and comprehend multiple types of literature as well as create well developed arguments in writing.

ENGLISH 11 A and B

1 credit

Grade 11

2 Trimesters

Prerequisites: English 9A, English 9B, English 10A, and English 10B

Students will gain knowledge and experience in the area of expository reading and writing. They will produce multiple formats of writing, including argumentative/persuasive and literary essays. Students will exit with the ability and understanding of how to communicate successfully through multiple written genres and of how to read complex texts.

ENGLISH 12A and ENGLISH 12B

1 credit

Grade 12

2 Trimesters

Prerequisites: English 9A, English 9B, English 10A, English 10B, English 11A, and English 11B or AP English Language and Composition.

This is designed as a transitional course to prepare students for college-level English and non-English classes. Students will practice writing formal essays and explore a survey of early and modern English literature, with an emphasis on individual interpretation based on common themes. In this transition to college English course, students will also practice writing multiple genres including narrative, academic, personal, and critical analysis pieces. In addition, students will complete a novel study.

COLLISION OF NOVELS AND FILMS

.5 elective credit

Grades 9-12

1 Trimester

This course will examine multiple pairings of novels with the cinematic adaptations for each selection. Discussions, projects, and writings will occur within the class as students encounter each form of the work, compare and contrast those works, and evaluate the effectiveness of each medium.

COLLEGE/SCHOLARSHIP APPLICATIONS AND ESSAYS

.5 elective credit

Grades 11, 12

1 Trimester

This course will offer students tips for how to complete applications and essays geared toward college admissions and financial aid. Students will also have time to complete College Admissions Applications and Essays, search for scholarship opportunities, and apply for scholarships. By the end of the course, students should have completed several applications and actually applied for applicable scholarships.

CREATIVE WRITING: FICTION

.5 elective credit

Grades 9-12

1 Trimester

This writing workshop will allow students the opportunity to create and share works of fiction. Students will be expected to complete various learning activities and individual writing productions. The works may be published in an anthology of student work.

EVERYONE LOVES A MYSTERY

.5 elective credit

Grades 10, 11, 12

1 Trimester

Prerequisite: English 9a and 9b

Students will become familiar with the story elements, structure, and vocabulary characteristic of the mystery genre. We will delve into the world of mystery through short stories and novels. Students will also demonstrate their knowledge of the characteristics of mysteries by completing a project about a mystery book of their own choosing.

MYTHOLOGY

.5 elective credit

Grades 10, 11, 12

1 Trimester

Prerequisite: English 9a and 9b

Students will study major myths from cultures around the world, including Greek, Roman, Middle Eastern, African, and Native American. Students will also explore the archetypes inherent in all of these myths.

SPEECH

.5 elective credit

Grades 9-12

1 Trimester

Interpersonal skills are still important today. Students will learn and apply the techniques including listening skills, speech preparation, and research methods, used in formal public speaking. Activities involve preparing speeches to inform, entertain, demonstrate, or complete a special occasion. Students may also be asked to use mediums that will help prepare for public speaking in a digital world.

SURVEY OF SHORT STORIES

.5 elective credit

Grades 10, 11, 12

1 Trimester

Prerequisite: English 9a and 9b

Students will be exposed to, discuss, and analyze a variety of short stories, themes, and writing styles. Students will enjoy being immersed in the elements and characters of short stories from multiple time periods, authors, and locations.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION A, B, and C

1.5 credits

Grades 11, 12

3 Trimesters

Prerequisites: English 9A, English 9B, English 10A, English 10B and a grade of B- or above in all previous English classes.

The purpose of this course is to enable students to develop skills for reading and writing a variety of complex texts with varying purposes. As a result, in addition to reading difficult primary and secondary sources and writing papers for a mature audience, students will also work with grammar/mechanics, research, and citations.

This takes three trimesters and is a preparation for college. Students will exit with the opportunity to take the AP English Language and Composition test in the spring. Students should check with individual college admissions offices regarding specifics of credits available through the AP exam. Students will be evaluated on daily participation, classroom and homework assignments, quizzes, unit tests, and written essays. Final grading will be weighted on a 5.0 grade point average scale.

ADVANCED PLACEMENT ENGLISH LITERATURE A, B and C

1.5 credits

Grade 11, 12

3 Trimesters

Prerequisites: English 9a, English 9b, English 10a, English 10b, a grade of B- or above in all previous regular English classes and a C or above in an AP English Class, and department approval.

This advanced English class is a literature study focusing on multiple literary genres and methods for discussing and analyzing writing. Students will critically analyze and interpret novels through discussions, papers, and projects.

Students may wish to take this course before or after AP Language and Composition, but that is not a requirement. This three-trimester class is a preparation for college, but is not solely a course for those planning on entering the field of English. This course teaches multiple skills that are necessary for success in the collegiate or career world. Students will learn how to develop and defend an argument, to think critically, to follow schedules and be good time managers, and to speak articulately.

Students will be evaluated on discussions, daily participation, homework assignments, quizzes, unit tests, and written essays. Final grading will be weighted on a 5.0 grade point average scale. Students will have the opportunity to take the Advance Placement Test in the spring.

MATH DEPARTMENT

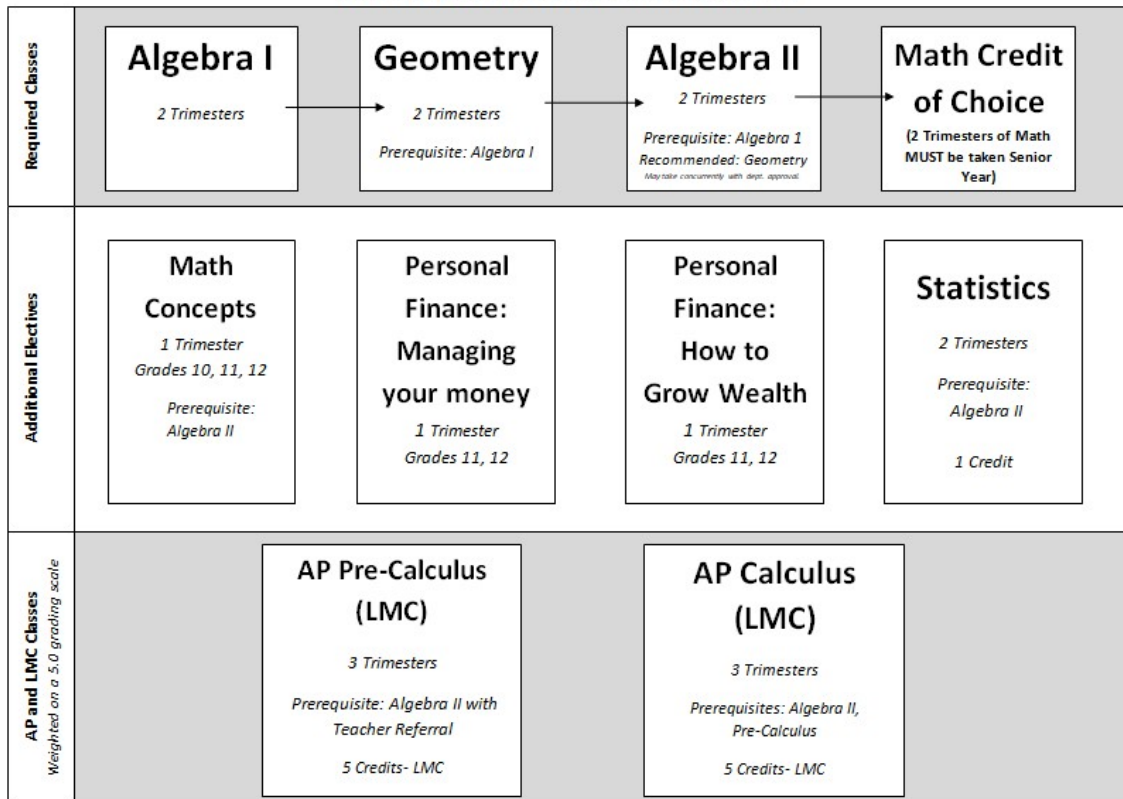
All students are required to successfully complete four (4) math credits in order to fulfill Math graduation requirements. Classes must be completed in the order below. Each course must be passed with 60% or better to move to the next course. (If a student does not pass the A section, they may not enroll in the B section).

Minimum Requirement(s):

Algebra I A (1/2 credit)
 Algebra I B (1/2 credit)
 Geometry A (1/2 credit)
 Geometry B (1/2 credit)
 Algebra II A (1/2 credit)
 Algebra II B (1/2 credit)

(All students must also complete 1 math credit their senior year: see flow chart for help on determining a senior course)

Math Department Flow Chart of Classes



* algebra 2 is available as 3 trimester course upon teacher recommendation.

ALGEBRA I (Required)

1 credit

Grade 9

2 Trimesters

Algebra IA deals with operations with real numbers; writing and simplifying algebraic expressions; solving equations and inequalities; representing relations and functions in tables, graphs, and equations; graphing and analyzing linear functions; and solving systems of linear equations.

Algebra IB deals with simplifying and factoring polynomials; analyzing quadratic functions and solve problems using various quadratic methods; analyzing exponential functions and solve problems involving exponential growth and decay.

GEOMETRY (Required)

1 credit

Grade 10

2 Trimesters

Prerequisites: Algebra I

Geometry A deals with points, lines, angles, and geometric proofs. Parallel lines, triangles, and similar and congruent triangles are also covered.

Geometry B covers the Pythagorean Theorem, trigonometry, coordinate geometry, polygons, circles, and surface area and volume of solids.

ALGEBRA II (Required)

1 credit

Grade 11

2 Trimesters

Prerequisites: Algebra I

Recommended: Geometry- May be taken concurrently with department approval.

Algebra II A deals with solving equations and systems of equations, simplifying and operating with polynomial and radical expressions and expressions involving complex numbers, graphing and analyzing quadratic and polynomial functions.

Algebra II B deals with graphing rational functions, simplifying rational expressions, exploring exponential, logarithmic and trigonometric functions, sequences, series, and probabilities.

MATH CONCEPTS

.5 credit

Grades 11, 12

1 Trimester

Prerequisites: Algebra II

This course teaches students to use mathematics to make important decisions for individuals, companies and governments. The course shows students how mathematics can be used to analyze many different important situations in real life.

PERSONAL FINANCE: MANAGING YOUR MONEY

.5 credit

Grades 11, 12

1 Trimester

The Personal Finance curriculum is designed to provide you with access to an engaging and high-quality financial education. This class will equip you with the practical knowledge and skills to thrive in the future. In this course, we will explore topics relating to the basics of how to manage your money such as:

1. Checking
2. Savings
3. Types of Credit, Loans & Leases
4. Managing Credit
5. Paying for College (or Alternatives)
6. Budgeting

PERSONAL FINANCE: HOW TO GROW WEALTH

.5 credit

Grades 11, 12

1 Trimester

The Personal Finance curriculum is designed to provide you with access to an engaging and high-quality financial education. This class will equip you with the practical knowledge and skills to thrive in the future. In this course, we will explore topics relating to how to establish and grow your wealth, such as:

1. Investing
2. Behavioral Economics
3. Careers
4. Taxes
5. Insurance

STATISTICS

1 credit

Grades 11, 12

2 Trimesters

Prerequisite: Algebra II

Statistics A and B: This course develops statistical decision-making. Students will learn statistical sampling techniques, organization of data, measures of central tendency and variability, simple probability, probability distributions, central limit theorem, correlation and regression, estimation, hypothesis testing, and analysis of variance.

ADVANCED PLACEMENT PRE-CALCULUS

1.5 credits / Optional 5 LMC Credits

Grades 11, 12

3 Trimesters

Prerequisite: Algebra II with teacher referral

AP Pre-Calculus is designed to run much as a College Algebra course would and covers concepts that are tested on the Pre-Calculus Advanced Placement Exam. In Pre-Calculus, students will work with concepts that build off of topics studied in Algebra II, such as function properties (mainly polynomial, exponential and logarithmic), trigonometric identities, polar graphs, data analysis, matrices and conic sections. The course completes the preparation of students to Calculus and includes an introduction to differential and integral calculus. Tests are given at the end of each chapter. Participation in class and discussion of the materials is important. Final grading will be weighted on a 5.0 grade point average scale. Depending on student interest, this course may be offered for 5 college credits through Lake Michigan Community College. Please see your high school counselor for more information. *Students who take AP Pre-Calculus are NOT required to take the AP Exam, though they may choose to*

ADVANCED PLACEMENT CALCULUS

1.5 credits /optional 5 LMC credits

Grade 12

3 Trimesters

Prerequisites: Pre-calculus

AP Calculus is designed to run much as a college Calculus course would, and covers concepts that are tested on the Calculus AB Advanced Placement Exam. In AP Calculus, students will work with concepts that build the foundation of Calculus: rate of change, differentiation, integration, the fundamental theorem of Calculus, and varied applications. The course is intended for those that have already completed PreCalculus with a grade of a “C” or better, and are planning on pursuing a degree in a technical or scientific field upon graduation, though is not limited. Final grading will be weighted on a 5.0 grade point average scale.

Depending on student interest, this course may be offered as a college credit through Lake Michigan Community College. Please see your high school counselor for more information.

SCIENCE DEPARTMENT
Science Department Flow Chart of Classes

Required Classes	<div> <div>Earth Science 1 Trimester</div> <div>Intro to Physics 1 Trimester</div> <div>Intro to Chemistry 1 Trimester</div> <div>Biology 2 Trimesters (Prerequisites: Intro to Physics, Intro to Chemistry)</div> <div>Chemistry 2 Trimesters Prerequisite: Intro to Chemistry</div> <div>Physics 2 Trimesters Prerequisite: Intro to Physics</div> </div>					
	<div> <div>Zoology 2 Trimesters Grades 9-12</div> <div>Natural Resources 1 Trimester Grades 9-12</div> <div>Botany-Greenhouse 1 Trimester Grades 9-12</div> <div>Food Science 1 Trimester Grades 10-12 Prerequisite: Natural Resources, Botany, Zoology</div> <div>Veterinary Science 2 Trimesters Grades 10-12 Prerequisite: Natural Resources, Botany, Zoology</div> <div>Leadership (AG) 1 Trimester Grades 10-12 Prerequisite: Natural Resources, Botany, Zoology</div> </div>					
	<div> <div>Engineering & Applied Science 1 Trimester Grades 9-12</div> <div>Forensic Science 1 Trimester Grades 10-12 May take with or after Biology</div> <div>Anatomy and Physiology 2 Trimesters Grades 11-12 Prerequisite: Biology</div> <div>Diseases and Pathogens 1 Trimester Grades 11-12 Prerequisite: see below</div> <div>Science in Society 1 Trimester Grades 11-12 Prerequisite: Biology</div> </div>					
Advanced Level Classes <i>Weighted on a 5.0 grading scale</i>	<div> <div> AP Biology 3 Trimesters Grades 11, 12 Prerequisite: Biology Recommended: Anatomy/Physiology </div> <div> AP Physics Offered in years starting with even numbers. Next available course: 2024-2025 3 Trimesters Grades 11, 12 Prerequisite: Intro to Physics, Algebra II (may be taken concurrently) Recommended: Physics or instructor approval </div> <div> AP Chemistry Offered in years starting with odd numbers. Next available course: 2023-2024 3 Trimesters Grades 11, 12 Prerequisites: Chemistry, Geometry Recommended: Algebra II (may be taken concurrently) or instructor approval </div> </div>					

EARTH SCIENCE (Required)

.5 credit

Grade 9

1 Trimester

This class will study Earth's place in the universe, Earth's systems, and Earth and human activity. This course will also study the many different landform structures, evidence of past and current Earth movements, meteorites, space science, and how humans have impacted the Earth. Students will create and use models to simulate ecological issues.

INTRO TO PHYSICS (Required)

.5 credit

Grade 9

1 Trimester

Prerequisites: Algebra IA is highly recommended.

This required course is designed to prepare students for Physics classes their junior and senior years. Intro to Physics introduces the basic principles of forces, motion, and energy. Mathematics and writing are stressed. Lab investigations and demonstrations are a component of the course.

INTRO TO CHEMISTRY (Required)

.5 credit

Grade 9

1 Trimester

This required course is designed to prepare students for Chemistry classes their junior and senior years. Intro to Chemistry introduces the basic principles of chemical concepts pertaining to atoms and bonding. Mathematics and writing are stressed. Lab investigations and demonstrations are a component of the course.

BIOLOGY A & B (Required)

1 credit

Grade 10

2 Trimesters

Prerequisite: Intro to Chemistry and Intro to Physics.

This course is an introductory biology course that will study molecules & cells, heredity & evolution, as well as organisms & populations. Students will conduct laboratory experiments and gain an appreciation of science as a process.

CHEMISTRY A & B (Required or may take Physics A & B)

1 credit

Grades 11, 12

2 Trimesters

Prerequisites: Math through Algebra II (may take concurrently), Intro to Chemistry & Intro to Physics or teacher recommendation.

Chemistry is a college prep course which is concept and lab oriented. Chemistry is the study of atomic and molecular substances, the chemical and physical changes substances go through and the energy involved in these changes.

PHYSICS A & B (Required or may take Chemistry A & B)

1 credit

Grades 11, 12

2 Trimesters

Prerequisites: 3 years of math., Intro to Chemistry and Intro to Physics or teacher recommendation. Algebra II and Chemistry are highly recommended.

Physics is a college prep course emphasizing the study of forces, energy and motion through laboratory exercises and story problems. Some lab work will be done to examine these properties. Most properties will be investigated by mathematical problem solving techniques.

ZOOLOGY A&B

1 credit

Grades 9-12

2 Trimesters

This class is an animal science class based on food animals and companion animals. The course will expose the students to the basic concepts of the animal world, including animal behavior and animal health. Students will become knowledgeable on large and small animal production and practices. Students will also cover animal anatomy and physiology, genetics, nutrition, health, and animal industries. Course activities will include hands on experiences working with animals in our animal science barn. Students do not have to take section A before B.

NATURAL RESOURCES

.5 credit

Grades 9-12

1 Trimester

Students will cover various topics related to natural resources, the outdoors, and the world around us. Topics include: Forestry management and tree identification, wildlife management and conservation, renewable and non-renewable energy, ecosystems, water conservation, soil structures and properties, and aquaculture.

BOTANY

.5 credit

Grade: 9-12

1 Trimester

Students will cover plant function, growth requirements, and anatomy and physiology. Students will also become knowledgeable in the fields of horticulture which includes plant identification, raising house plants and bedding plants in the greenhouse, pests, floral design, and interior/exterior landscape design. Students will work hands on growing their own plants in the greenhouse and will take their plants home at the end of the trimester

FOOD SCIENCE

.5 credit

Grades 9-12

1 Trimester

Prerequisites: Natural Resources, Botany, Zoology A&B

Food science is not a culinary arts class. However, students will complete three food projects outside of class and bring them in to share with the class. Food Science uses everyday food practices to more easily explain the basic fundamental science concepts through hands-on activities. Scientific principles are applied to food everywhere: farm fields, food processing plants, in home and commercial kitchens and in research laboratories. This course will expose the students to the basic concepts of the food system including marketing, safety, development and preservation. In addition, students will become knowledgeable in the food science area as it relates to this rising career field.

VETERINARY SCIENCE A & B

1 credit

Grades 10, 11, 12

2 Trimesters

Prerequisites: Natural Resources, Botany, Zoology A&B

Students will learn how the major systems of the animal body function and what health problems affect them. Students will become familiar with basic veterinary terminology, animal handling, general health examinations of large and small animals, and proper drug administration techniques. Course activities may include hands on experiences working with animals in our animal science barn. Students must have section A before taking section B.

LEADERSHIP (AG)

.5 credit

Grades 10, 11, 12

1 Trimester

Prerequisites: Natural Resources, Botany, Zoology A&B

This course is designed to help students enhance their leadership role in the school and community. Students will develop leadership and communication skills, personal growth, and career development skills. Students will give multiple presentations both independently and in groups, learn proper parliamentary procedure, write a cover letter and resume, and complete a mock job interview. Students will also work on community service projects and formulate and present educational topics in the agricultural and natural resources area to elementary students.

ENGINEERING AND APPLIED SCIENCE

.5 credit

Grades 9-12

1 Trimester

A project based learning class focusing on science, technology, engineering, and mathematics (STEM). The course will contain hands on activities integrated with conceptual lessons. Inquiry based learning in group settings focusing on team work skills addressing real world problems. Some projects include but are not limited to bridge building, air craft construction, and paper roller coasters. Class size will be limited to 24.

FORENSICS SCIENCE

.5 credit

Grades 10, 11, 12

1 Trimester

Prerequisite: Successful completion of Biology A or teacher recommendation

The class is designed around authentic performance assessments with students working in teams to solve crimes using scientific knowledge and reasoning. It involves all areas of science including biology, anatomy, chemistry, physics, and earth science with an emphasis in complex reasoning and critical thinking. In addition, students must incorporate the use of technology, communication skills, language arts, art, family and consumer science, mathematics and social studies. Students will be asked to read, research, hypothesize, interview, compute and use deductive reasoning to propose crime solutions.

ANATOMY AND PHYSIOLOGY A & B

1 credit

Grades 11, 12

2 Trimesters

Prerequisite: Successful completion of Biology

This two-trimester elective course is designed to prepare college bound students for Anatomy and Physiology classes their junior and senior years, introducing the basic principles of anatomy and a basic understanding of physiology. Students will study all of the body systems, physiological processes, and will use hands-on techniques of dissecting and identification. Dissection of a cat during trimester B is required.

DISEASES AND PATHOGENS

1 credit

Grades 11, 12

1 Trimester

Prerequisite: Successful completion of Biology

This is an introductory elective course covering diseases and pathogens with an emphasis on human biology and microbiology. Major topics of study include the structure of microbial pathogens, culturing, identifying, and controlling pathogenic microorganisms, and host-parasite relationships of infectious disease. The class will also discuss the impact of diseases and pathogens on a community and the world. The course will involve a mixture of case studies, research, projects, and presentations.

SCIENCE IN SOCIETY

1 credit

Grades 11, 12

1 Trimester

Prerequisite: Successful completion of Biology

In this course, students apply research methods to investigate current science issues in society. Students will develop their basic scientific knowledge of a variety of current issues such as DNA manipulation, groundwater chemistry, and artificial intelligence in order to discuss their significance and derive the impact on society. Specific topics may vary as new issues and developments in science warrant.

AP BIOLOGY

1.5 credits

Grades 11, 12

3 Trimesters

Prerequisite: Successful completion of Biology with a B or better (or recommendation of the teacher),

Recommended: Anatomy & Physiology

AP Biology is structured around four big ideas that are covered through lecture, activities, and labs. Laboratory and group work may require participation outside of the regularly scheduled school day. The final grading will be weighted on a 5.0 grade point average scale. The four big ideas are as follows:

Big Idea 1: The process of evolution drives the diversity and unity of life

Big Idea 2: Biological systems utilize free energy and molecular building blocks to grow, to reproduce and to maintain dynamic homeostasis

Big Idea 3: Living systems store, retrieve, transmit and respond to information essential to life processes

Big Idea 4: Biological systems interact, and these systems and their interactions possess complex properties

AP PHYSICS – Next available class is 2024-2025.

1.5 credits

Grades 11, 12

3 Trimesters

Prerequisites: Geometry, department recommendation.

Recommended: Algebra II or enrolled in concurrently. Physics A and B.

The goal of AP Physics B is to provide students with an experience equivalent to an introductory college level general physics course. AP Physics B will cover topics in both classical and modern physics. It will include concepts in Newtonian mechanics, fluid and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. AP Physics B requires a serious commitment from students. Students will spend significant time inside and outside of class working on problem sets, lab reports, working on projects, and preparing for the AP exam. This course covers all three trimesters due to the required invested time and amount of required laboratory time. Students are expected to be self motivated and have strong problem solving and advanced algebra skills. Students have the option to take the College Board AP Exam to earn college credit for the course. Final grading will be weighted on a 5.0 grade point average scale.

AP CHEMISTRY - Next available class is 2023-2024.

1.5 credits

Grades 11, 12

3 Trimesters

Prerequisites: Chemistry A and B. Approval/recommendation needed from instructor.

The goal of AP Chemistry is to provide students with an experience equivalent to an introductory college level general chemistry course. AP Chemistry covers many topics from Chemistry A and B but in more depth and detail. Furthermore, AP Chemistry has an increased focus on laboratory experiences and skills. AP Chemistry covers the topics of structure and states of matter, reactions, chemistry calculations, and laboratory procedures. AP Chemistry requires a serious commitment from students. Students will spend significant time inside and outside of class working on problem sets, lab reports, and preparing for the AP exam. This course covers all three trimesters due to the required invested time and amount of laboratory time. Students are expected to have a strong background in chemistry and mathematics. Students must be self motivated and have strong problem solving skills. Students have the option to take the College Board AP Exam to earn college credit for this course. Final grading will be weighted on a 5.0 grade point average scale.

SOCIAL STUDIES DEPARTMENT

Social Studies Department Flow Chart of Classes

Required Classes	<div> <div> World History 2 Trimesters <i>Recommended for Grade 9</i> </div> <div> U.S. History 2 Trimesters <i>Recommended for Grade 10</i> </div> <div> Government 1 Trimester Grades 10, 11 </div> <div> Economics* 1 Trimester Grades 10, 11 <i>*May be replaced with LMC Micro or Macro Economics.</i> </div> </div>			
	<div> <div> Applied Law 1 Trimester Grades 9-12 </div> <div> Pop Culture and Influences on Youth 1 Trimester Grades 9-12 </div> <div> Psychology 1 Trimester Grades 10, 11, 12 </div> <div> Sociology 1 Trimester Grades 10, 11, 12 </div> <div> Modern World History 1 Trimester Grades 10-12 </div> </div>			
	<div> <div> Current Events 1 Trimester* Grades 9-12 <i>*Due to the nature of this course it may be repeated up to twice per year.</i> </div> <div> Sports History 1 Trimester Grades 9-12 </div> <div> Society through Motion Pictures 1 Trimester Grades 10-12 </div> <div> Holocaust 1 Trimester Grades 10-12 </div> <div> History of Vikings 1 Trimester Grades 10-12 <i>Prerequisite: World History</i> </div> </div>			
AP and College Credit Classes <i>Weighted on a 5.0 grading scale</i>	<div> <div> A.P. U.S. History 3 Trimesters Grades 10, 11, 12 This class will also satisfy U.S. History requirement for graduation. </div> <div> Microeconomics (LMC) 1 Trimester Grades 11, 12 This class will also satisfy Economics requirement for graduation. 3 LMC Credits </div> <div> Macroeconomics (LMC) 1 Trimester Grades 11, 12 This class will also satisfy Economics requirement for graduation. 3 LMC Credits </div> <div> A.P. Government 2 Trimesters Grades 10 and above This class will also satisfy Government requirement for graduation. 3 LMC Credits </div> </div>			

WORLD HISTORY AND GEOGRAPHY A and B (Required)

1 credit

Recommended for grade 9 (May be taken in 10th grade)

2 Trimesters

This course takes a global and comparative approach to studying the world and its past in order to develop a greater understanding of worldwide events, processes, and interaction among the world's people, cultures, societies, and environment.

U.S. HISTORY AND GEOGRAPHY (Required)

1 credit

Recommended for grade 10 (May be taken in 9th grade)

2 Trimesters

In this course students will study the historical, cultural, political, economic, and institutional forces and events that have shaped United States history from 1870 to present. Students will gain exposure to such issues as Reconstruction, the Industrial Revolution, the Great Depression, the World Wars, the Cold War, the Civil Rights Struggle, and Contemporary Issues.

GOVERNMENT (Required)

.5 credit

Recommended for grade 11 (May be taken in 10th grade)

1 Trimester

This course surveys basic components of the American body politic. The following items will be discussed and explored: voters, political parties, campaigning and elections, comparative political systems, political theory and origination of American political thought, core democratic values, the legislative branch and the interplay of personality and politics, the executive branch and the unique responsibilities and powers of the President, the judicial branch and their unique status as interpreters of the United States Constitution, the vagaries of the bureaucracies and their channels of power and accountability, public policy derivation and implementation, foreign policy derivation and implementation, the role and power of local and state government and lastly, the duty and privilege of an adult, American citizen.

ECONOMICS (Required)

.5 credit

Recommended for grade 11 (May be taken in 10th grade)

1 Trimester

This course surveys basic economic theories and applications. Macroeconomics is the study of total or 'aggregate' economic activity. For instance, the course investigates the problems of inflation and unemployment. Other major topics include: GDP measurement, national income determination, money and banking, fiscal and monetary policy, and international trade and finance. Microeconomics is the study of how consumers, workers, firms and the government behave with respect to the choices each must make. The course centers on price and output determination in a market system. Related topics include: Consumer Choice, Cost Behavior, Competition versus Monopoly, Labor Markets, and Public Choice.

APPLIED LAW

.5 credit

Grades 9-12

1 Trimester

Students will understand the difference between criminal and civil law. Students will focus on how the court system works and how each side formulates their cases for trials. This course will cover the constitutional, statutory and case law rules that define, limit and provide defenses to individual liability for criminal and civil offenses. This course requires students to research and analyze previous court decisions and apply them to current court cases. A general understanding of our government structure is necessary for successful completion of this course.

POP CULTURE AND INFLUENCES ON YOUTH

.5 credit

Grades 9-12

1 Trimester

This class examines how *Popular Culture* has influenced Modern History in the 20th Century. By focusing on Popular Music, Films, Television, Books, News Media, Advertising, Fads, and Social and Political Movements of the past Century students will gain a firm understanding on how *Popular Culture* influences our lives in countless ways.

PSYCHOLOGY

.5 credit

Grades 10, 11, 12

1 Trimester

This course surveys how psychologists investigate, describe, and analyze the individual and behavior. We will study schools of thought in psychology, human development, physiological underpinnings of human behavior, perception of physical characteristics of our environment and its resultant illusion potentials, and the three basic learning types. Also covered will be memory and thinking as well as language development, motivational needs of physiological/mixed/learned responses, emotions, personality, abnormal behavior, and tests that measure differences in people. Students will be evaluated on homework, quizzes, tests, and activities.

SOCIOLOGY

.5 credit

Grades 10, 11, 12

1 Trimester

This course surveys how sociologists investigate, describe, and analyze social life. We will see the three perspectives of sociology, that of the Functionalist, the Conflict, and Interactionist. Specifically, this course will explore and develop the following topics: interactions of people in a society, relative social position, prestige, and influence, social institutions like marriage and education, the socialization of the individual, and lastly, problems of mass society such as crime, discrimination, and the definitions of a minority group. Students will be evaluated on homework, quizzes, tests, and activities. A term paper is also required.

MODERN WORLD HISTORY

.5 credit

Grades 10-12

1 Trimester

Students will learn about how quickly the pace of change picked up during this modern era. They will be exposed to what the consequences of a global economy meant for the world as a whole. This in depth study of world events during the past 50 years will accumulate in a better understanding of proxy wars and how globalization has now united mankind in a way the world has not seen. Topics that will be covered include population growth and its environmental effects, colossal energy consumption and the environment, big science, global migration, electronic communications, postwar economic growth and trade, and the Cold War and its end. Additional topics to be covered are sovereignty and rights, the passing of peasantries, women's rights, environmental consciousness, global culture, Marxism and Neo-liberalism, and religion and science.

CURRENT EVENTS

.5 credit

Grades 9-12

1 Trimester

This class May be taken once during 9th /10th grade years and once during 11th and/12th grade years (twice total in high school).

This course will look at controversial issues in society that we face in the 21st century. Through role-play simulations, discussions, and individual work, students will learn both sides of controversial issues and the historical roots of the issues. The issues and topics covered in this class are now or will be affecting our society and are relevant to the lives of young people as they start their careers and families. Student will be prepared to voice opinions and to debate controversial topics.

SPORTS HISTORY

.5 credit

Grades 9-12

1 Trimester

Students will examine the history of American Sports from folk games and blood sports to the modern era of professional sports. The course will explore the impact of broad, social, political, and economic changes upon the development of America's sporting culture. Special emphasis will be placed upon the issues of race, class, and sex.

SOCIETY THROUGH MOTION PICTURES

.5 credit

Grades 10-12

1 Trimester

Prerequisite: Parental permission

This one trimester course would present the major points of human history and culture, from pre-history to today. After having secured the requisite parental permission, the student would view the movie in class. Following the viewing, the student would respond to a series of critical thinking questions that would establish students understanding of the historical background of the narrative as to veracity, cultural and sociological context, and cinematography with basic film appreciation cues and tricks. The student will also establish his/her understanding of the cultural impact of the movie itself upon society (meaning that the movie may portray a feature or perspective of history or society, but the movie itself also impacts history and culture!) Classroom discussion will also ensue. This course will ask the student to read several articles and excerpts, as well as write a dozen essays.

Potential Titles: *Alexander, Gladiator, The Passion of the Christ, Saving Private Ryan, The Longest Day, Blade Runner, Ben-Hur, West Side Story, Gone With the Wind, On the Waterfront, Amadeus, The Sting, Forrest Gump, The Godfather, Citizen Kane, The Deer Hunter, Midway, The Maltese Falcon, Casablanca, Star Wars, Triumph of the Will, Ghandi, Jaws, The Right Stuff, The French Connection, E.T., Chariots of Fire and others.*

HOLOCAUST

.5 credit

Grades 10-12

1 Trimester

This course is a survey of the major developments in the Holocaust and similar genocide occurrences during the 20th Century. During this course, we will focus on the events leading up and during the genocides, the people, the ideology, and the ramifications of these acts of genocide and crimes against humanity upon society and history

HISTORY OF VIKINGS

.5 credit

Grades 10-12

1 Trimester

Prerequisite: World History

This course explores the origin and exploration of the Vikings who originated in modern day Denmark, Sweden, and Norway. The essential question of the course is "What legacy did the Vikings REALLY leave?" The first half of the course will simply focus on daily life, religion, gender roles, and mythology. The second half of the course will focus on a comparison between the Vikings and Medieval Europe, and battle strategies.

AP U.S. HISTORY

1.5 credits

Grades 10, 11, 12

3 Trimesters

Prerequisite: 11th grade or higher, a broad historical knowledge background, students must have earned an A or B in their World History class, and teacher approval.

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

Although there is little to be gained by rote memorization of names and dates in an encyclopedic manner, a student must be able to draw upon a reservoir of systematic factual knowledge in order to exercise analytic skills intelligently. Striking a balance between factual knowledge and critical analysis is a demanding but crucial task in the design of an AP History course. Students should realize that they do not have to take the AP test following the course, but it is HIGHLY encouraged. This course is reading intensive and the student needs to be motivated to learn on their own outside of class. The teacher will facilitate the critical thinking part of the AP class but a lot of the knowledge will be learned outside of the classroom. Final grading will be weighted on a 5.0 grade point average scale.

MICROECONOMICS (LMC)

.5 credit/ Optional 3 LMC Credits

Grades 11, 12

1 Trimester

Prerequisite: Students must have qualifying ACT scores of: Math 16, Reading, 17 and Writing 18. Those who have not taken the ACT or do not have qualifying scores can take the ACT Compass Test given by LMC to try for a qualifying score. Tuition fees are the responsibility of the student and subject to change. See your high school counselor for more information. Final grading will be weighted on a 5.0 grade point average scale.

This class emphasizes general principles of microeconomics. Topics include supply and demand, consumer behavior, cost theory, market structures, pricing factors of production, unions, poverty, government regulation and international trade.

MACROECONOMICS (LMC)

.5 credit/ Optional 3 LMC Credits

Grades 11, 12

1 Trimester

Prerequisite: Students must have qualifying ACT scores of: Math 16, Reading, 17 and Writing 18. Those who have not taken the ACT or do not have qualifying scores can take the ACT Compass Test given by LMC to try for a qualifying score. Tuition fees are the responsibility of the student and subject to change. See your high school counselor for more information. Final grading will be weighted on a 5.0 grade point average scale.

Macro emphasizes general principles of macroeconomics. Topics include supply and demand, inflation, unemployment, economic growth, business cycles, money, taxes, government spending, gross national product, price indexes, technology, wages, fiscal and monetary policy, interest rates, deficit and national debt, and international trade.

AP GOVERNMENT

3 credits

Grades 10, 11, 12

2 Trimesters

The Advanced Placement course in United States Government and Politics is designed to give students a critical perspective on politics and government. This course involves both the study of general concepts used to interpret United States politics and an examination of the various institutions, groups, beliefs, and ideas that make up American politics. The course is taught with college-level texts. Preparation for the A.P. test will be an integral part of the course. The AP U.S. Government and Politics also involves the study of democratic ideas, balance of powers, and tension between the practical and ideal in national policymaking. Students analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens.

ART DEPARTMENT

All Art Classes are One Trimester

2-Dimensional Art Courses	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Drawing From Imagination <i>Prerequisite:</i> None <i>Covers:</i> Creative Drawing Techniques <i>Offered:</i> Based On Student Interest </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Drawing From Life <i>Prerequisite:</i> None <i>Covers:</i> Observational Drawing Techniques <i>Offered:</i> Based On Student Interest </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Painting <i>Prerequisite:</i> None <i>Covers:</i> Acrylic, Oil, Watercolor & Ink Techniques <i>Offered:</i> Based On Student Interest </div> <div style="border: 1px solid black; padding: 5px;"> Mixed Media <i>Prerequisite:</i> None <i>Covers:</i> Collage, Photo Transfer, Printmaking, Installation & Experimental Art Techniques <i>Offered:</i> Based On Student Interest </div>
3-Dimensional Art Courses	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Functional Sculpture & Ceramics <i>Prerequisite:</i> None <i>Covers:</i> Functional Sculpture, Stoneware & Terra Cotta Clay Techniques <i>Offered:</i> Based On Student Interest </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> Creative Sculpture & Ceramics <i>Prerequisite:</i> None <i>Covers:</i> Decorative Sculpture, Stoneware & Terra Cotta Clay Techniques <i>Offered:</i> Based On Student Interest </div> <div style="border: 1px solid black; padding: 5px;"> Mixed Media <i>Prerequisite:</i> None <i>Covers:</i> Collage, Photo Transfer, Printmaking, Installation & Experimental Art Techniques <i>Offered:</i> Based On Student Interest </div>
Independent Study Courses	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Portfolio Development <i>Prerequisite:</i> Successful Completion of 4 Art Classes, + Permission of the Art Department <i>Students will work independently to develop their artistic portfolio.</i> <i>Covers:</i> Choice Artist Research, Choice Mediums, Choice Projects <i>Offered:</i> As Needed Based On Student Interest </div>

*All art students are required to participate in an art show, including showing a piece of artwork created in class.
 All art students are required to bring a Sketchbook to class for notes, activities, research and studies for larger projects.*

DRAWING FROM IMAGINATION

.5 credit

Grades 9-12

1 Trimester

In *Drawing From Imagination*, you will learn how to create based on ideas in your own head that will result in artwork that is unique and original to you! Students will learn how to use the tools of drawing as well as use their creativity to develop their own artistic style. Projects include a cartoon/animation drawing (based on Walt Disney's method of creating *Snow White & The Seven Dwarves*), a surrealist piece (a drawing based on "dream-like images" like a guitar turning into a jellyfish & process-based artwork), reinterpreting the cover of a book, CD, record, etc. and working with non-traditional mediums (painting with food, drawing with tape on a whiteboard, etc.) Come ready to explore the different ways you can create art and to develop your own unique style!

DRAWING FROM LIFE

.5 credit

Grades 9-12

1 Trimester

In *Drawing From Life*, you will learn how to look at things that are in front of you and create artwork from observing them. You will learn how to use the tools of drawing as well as your power of observation to create artwork that is realistic looking. You will work with a variety of subject matter and begin in black and white. Throughout the trimester, color is introduced and you will be given more and more freedom in your projects as you learn the basics of drawing. Subject matter observed includes objects, hands, portraiture, the human body, rooms/hallways. Come ready to learn how to see the world in a different way!

PAINTING

.5 credit

Grades 9 - 12

1 Trimester

In *Painting*, students will learn how to create artwork using acrylic, oil and watercolor paint. You will learn the basics of each medium and be given more and more freedom throughout the trimester as you develop your own painterly style. Subject matters include landscapes/cityscapes, fabric/objects, painting from photographs, as well as an abstract piece that expresses itself through shapes and colors. In addition, the class will choose a theme painting and create a project within that theme. A past example of a theme project is a monster painting. Come ready to explore what paint can do and to create a portfolio of a variety of different kinds of paintings!

FUNCTIONAL SCULPTURE & CERAMICS

.5 credit

Grades 9- 12

1 Trimester

In *Functional Sculpture & Ceramics*, students will learn how to create 3-dimensional pieces that serve a particular purpose and help society function. These functions can be to serve as a “sketch” for a larger work (for example, people who design cars make smaller versions before creating the actual vehicle) or the piece can have its own function, like serving as a container (such as a teapot). Projects include clay boxes with lids and coil mugs, functional stoneware (a type of clay) pieces such as jewelry holders or a vase, tea pot, bird house, etc., buildings based on post-modernism (a mentality for buildings that “anything goes” - imagine buildings made to look like French Fries or a smashed guitar) and packaging design where students create their own inventions and advertising campaigns to go along with it. Come ready to learn the structural foundations of clay and sculpture, as well as explore the many ways art is all around us!

CREATIVE SCULPTURE AND CERAMICS

.5 credit

Grades 9- 12

1 Trimester

In *Creative Sculpture & Ceramics*, you will learn how to create 3-dimensional pieces that have aesthetic (or “decorative”) elements to them. You will explore both clay and sculptural techniques that start out as a basic structure and have decorative pieces added to them. Projects can include a decorative tile using terra cotta (a reddish clay), a sculpture made entirely from recycled objects, a balsa wood sculpture that explores the different ways sculptors use space, a sculpture that explores the use of wire and project proposals and scale models (miniature versions) of larger than life sculptures based on the style of artist Claes Oldenburg who became famous for blowing up small objects (imagine a clothespin the size of a skyscraper). Come ready to explore the ways artists create artwork that is pleasing to the eye.

MIXED MEDIA ART

.5 credit

Grades 9-12

1 Trimester

In *Mixed Media Art*, students will combine both 2-dimensional (artwork that has “flat” surface mediums like drawing or painting) and 3-dimensional (artwork that has pieces that “pop” out) techniques to create artwork and explore the various ways different kinds of art can come together. Projects include photo transfer collage (where you will choose an issue you feel strongly about such as texting and driving, pollution, animal abuse, etc.), printmaking with monotypes and linoleum block printmaking (creating images by carving away from a piece of linoleum) and an installation piece that will take over a spot of the school to change the way people feel about or interact with that particular space. Come ready to explore the various ways art can come together and to see how art can change the way that people perceive the world.

PORTFOLIO DEVELOPMENT

.5 credit

Grades 10, 11, 12

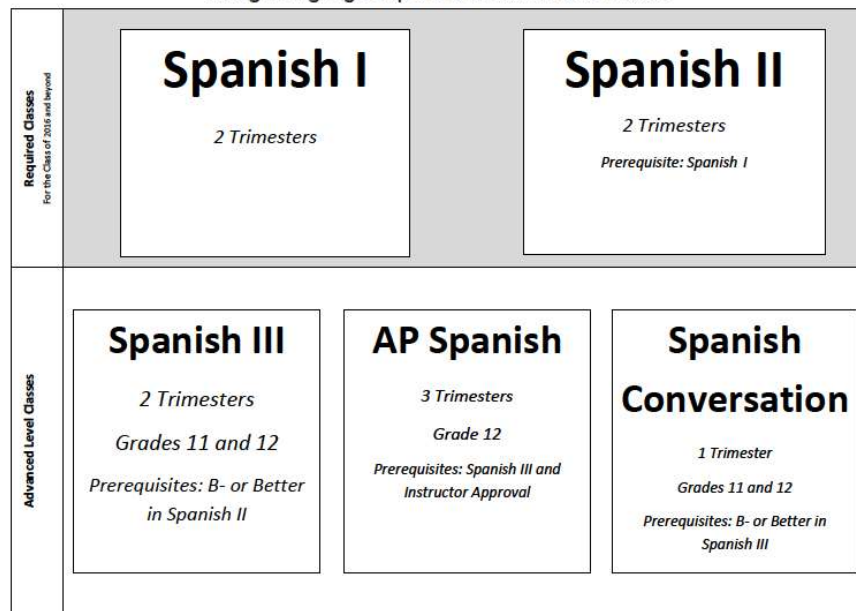
1 Trimester

Prerequisite: Successful completion of four art classes and instructor permission.

Students will work independently to develop their artistic portfolio. Students will keep a Sketchbook that they will use to research chosen artists and artworks, propose projects in their preferred mediums and create projects of their choice. Students will be expected to frequently reflect upon their work, identifying both strengths and weaknesses and using those reflections as tools to move forward. This class can be taken for part of or all of the school year. Independent Study & Portfolio Development is meant for students to build on the concepts learned in prior art classes, as well as develop their own artistic voice and visions for their artwork.

FOREIGN LANGUAGE DEPARTMENT

Foreign Language Department Flow Chart of Classes



SPANISH I (Required)

1 credit

Grades 9-12

2 Trimesters

Students will begin to develop basic Spanish language skills in listening, speaking, reading and writing. Emphasis will be placed on in-put rather than output through storytelling to create a more natural language learning environment. We will focus mainly on the present tense with introductions to more complex verb forms. The students will also explore the culture of various Spanish-speaking countries through readings, videos, and other culture related activities.

SPANISH II (Required)

1 credit

Grades 10, 11, 12

2 Trimesters

Prerequisites: Spanish I

Students will continue to develop their basic Spanish language skills. They will continue to work on the present tense and be introduced to, work with and use the past tenses through storytelling. Students will focus on listening and reading, and be encouraged to speak Spanish. Students will also continue to explore cultures of different Spanish-speaking countries through various activities.

SPANISH III

1 credit

Grades 11, 12

2 Trimesters

Prerequisite: Spanish I and Spanish II. Students are recommended to have attained a B- in Spanish II.

Spanish III is a continuation of Spanish II with review of the past tense and introduction to the rest of the Spanish tenses. We will continue to learn through storytelling and reading. More emphasis will be put on speaking and writing. We will continue to learn about and explore cultures from different Spanish-speaking countries.

AP SPANISH AND CULTURE

1.5 credit

Grade 12

3 Trimesters

Prerequisite: Spanish III and/or permission from the Spanish Department.

The AP Spanish Language course is designed to prepare students to demonstrate their level of Spanish proficiency across three modes of communication, including interpersonal, interpretive and presentational with a strong focus on cultures and communities. These modes will be developed by addressing content material comparable to a third year college-level Spanish course. The teacher will use Spanish almost exclusively in the teaching of this course and students are encouraged to do the same. Final grading will be weighted on a 5.0 grade point average scale.

SPANISH CONVERSATION

.5 credit

Grades 11, 12

1 Trimester

Prerequisite: Spanish III

Spanish Conversation is a class that will focus on conversation and vocabulary acquisition. It is meant to help prepare students for AP Spanish or to help students to stay on top of their Spanish after taking AP Spanish. Students will participate in group conversation, partner work, presentations, reading, and writing. Our goal is to be speaking almost exclusively in the target language within the first few weeks of class.

******Although this class is only 1 trimester in length, students may take this class for multiple trimesters as the material will change trimester to trimester.

Tri 1 topics: Personal and Public Identities - Personal Beliefs, Families and Communities - Global Citizenship

Tri 2 topics: Contemporary Life - Way of Life, World Challenges - Social Consciousness

Tri 3 topics: Science and Technology - Discoveries and Inventions, Beauty and Aesthetics - Language and Literature

MUSIC DEPARTMENT

Music Department Overview of Classes

Basic Music Classes	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Concert Choir 3 Trimesters Grades 9-12 </div>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Concert Band 3 Trimesters Grades 9-12 <i>Prerequisite: Middle School Band</i> </div>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Music Appreciation* 1 Trimester Grades 9-12 <i>*This is NOT a performance class.</i> </div>
Advanced Electives	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Chamber Choir 3 Trimesters Grades 9-12 <i>Prerequisite: Vocal Audition with Director</i> </div>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Jazz Band 1 Trimester Grades 9-12 <i>Prerequisite: Middle School Band and Audition with Director</i> </div>	<div style="border: 1px solid black; padding: 10px; text-align: center;"> Symphonic Band 3 Trimesters Grades 9-12 <i>Prerequisite: Middle School Band and Audition with Director</i> </div>

CONCERT CHOIR —1st Hr.

1.5 Credits

Prerequisite: None

Grades 9, 10, 11 & 12

3 Trimesters

Full Year Class

Concert Choir is a beginning/intermediate (3-4 part) mixed vocal ensemble. *Admittance determined by default, or as assigned at the discretion of the vocal music director and school administration. One year or more of Middle School or High School Choir is recommended, but not required. Each student will explore, learn, and perform a wide variety of choral music. Also, each student will continue to develop their voice and learn how to better use their developing and maturing voices to produce a correct choral sound and blend. Standards in the areas of Music Performance, Theory, History, and Appreciation are integral parts of this course. This group strives to meet the state and national standards for music education. Minimal homework is assigned but time outside of class is required of each student for group performances, tours, festivals, and/or extra rehearsals.

CHAMBER CHOIR —2nd Hr.

1.5 Credits

Prerequisite: Vocal Audition with Director

Grades 9, 10, 11 & 12

3 Trimesters

Full Year Class

Chamber Choir is an advanced (3-4 part+) mixed vocal ensemble with a limited number of 16-20 singers that concentrates on performing varying types of classical and 18th-21st Century music, as well as some modern and vocal jazz music. *Admittance through a competitive audition process is open to 9-12th grade men and women. The group size and composition for any given year may be adjusted to create the best group possible based on audition results. One year or more of Middle School or High School Choir is recommended, but not required. Rehearsals focus on developing and utilizing an exceptional choral tone while learning varying styles of music. Standards in the areas of Music Performance, Theory, History, and Appreciation are integral parts of this course. This group strives to meet the state and national standards for music education. Some homework will be assigned and time outside of class is required of each student due to the large number of group performances, tours, festivals, and/or extra rehearsals.

***For high school scheduling purposes, Hopkins H.S. Vocal Music Department auditions for the NEXT school year will be held at the beginning of the 3rd Trimester (in March) of the previous school year. The results from those auditions are not a secret, but they are tentative and can change at any time. The director encourages students to display leadership and individual goal development throughout the entire year. Please see the choir director for questions, conflicts, or if you or your family would like to review any part of this process.**

CONCERT BAND

1.5 credit

Grades 9-12 (geared toward 9-10)

3 Trimesters

Prerequisites: Middle School Band

Concert Band is made up of students from grades 9 through 12 although the band is geared towards grades 9 and 10. The material covered will be a moderate review of the junior high level with advanced material. More of an emphasis will be placed on the performance aspect and a greater variety of literature will be covered. Performance media will include marching band, concert band, solo and ensemble performances, festival performances, and ad hoc ensembles.

Grades will be determined by performance participation, classroom participation, and playing quality. Selections will be assigned by the instructor per instrument. In Concert Band there will not be a practice schedule. Students are expected to practice and the grade earned will be the indicator of that student's responsibility to cover his/her part. Failure to participate in scheduled events may result in failure for the 12 week marking period. These situations will be dealt with on an individual basis.

SYMPHONIC BAND

1.5 credit

Grades 9-12 (geared toward 11-12)

3 Trimesters

Prerequisites: Middle School Band

Symphonic Band is made up of students from grades 9 through 12 although the band is geared towards grades 11 and 12. The material covered will be advance. More of an emphasis will be placed on the performance aspect and a greater variety of literature will be covered. Performance media will include marching band, concert band, solo and ensemble performances, festival performances, and ad hoc ensembles.

Grades will be determined by performance participation, classroom participation, and playing quality. Selections will be assigned by the instructor per instrument. In Symphonic Band there will not be a practice schedule. Students are expected to practice and the grade earned will be the indicator of that student's responsibility to cover his/her part. Failure to participate in scheduled events may result in failure for the 12 week marking period. These situations will be dealt with on an individual basis.

MUSIC APPRECIATION

.5 credit

Grades 9-12

1 Trimester

This is a one trimester class dealing with music and its elements. The student will see how these elements are used in virtually all music, and how music is used in virtually all cultures and parts of life. An emphasis on listening skills will assist the students to enjoy and to understand whatever style of music they might select. There will be opportunities for some "hands-on" types of activities like rhythmic "stomp" ensembles, writing melodies, writing stories to music and sharing their own music with the class. *(This is not a performance class.)*

JAZZ BAND

.5 credit

Grades 9-12

1 Trimester

Prerequisite: Middle School Band and an Audition with the Director

This group is made up of students from grades 9 through 12. The material covered will be a variety of material from the genre of jazz. This ensemble will perform at least one time during the trimester at a band concert. Improvisation will be covered and demonstrated but it will not be mandatory during performances. Grades will be determined by performance participation, classroom participation, and quality playing. Students are expected to practice and the grade earned will be the indicator of the student's responsibility to cover his/her part. Admittance through a competitive audition process is open to 9-12th grade students. The group size and composition for any given year may be adjusted to create the best group possible based on audition results.

PHYSICAL EDUCATION

Physical Education Department Flow Chart of Classes

Required Classes	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Basic Physical Education <i>1 Trimester</i> <i>Grades 9-12</i> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Health <i>1 Trimester</i> <i>Grades 9-12</i> </div> </div>		
Additional Electives	<div style="display: grid; grid-template-columns: 1fr 1fr 1fr; gap: 10px;"> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Indoor Team Sports <i>1 Trimester</i> <i>Grades 10, 11, 12</i> <i>Prerequisites: Basic P.E.</i> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Outdoor Team Sports <i>1 Trimester</i> <i>Grades 10, 11, 12</i> <i>Prerequisites: Basic P.E.</i> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Intro to Strength Training <i>1 Trimester</i> <i>Grades 9, 10</i> <i>Prerequisite: C or Better in Basic P.E.</i> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Officiating/ Game Management <i>1 Trimester</i> <i>Age 16 or older</i> <i>Prerequisites: Basic P.E.</i> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Strength and Conditioning <i>1 Trimester*</i> <i>*Can be taken up to three times per year.</i> <i>Grades 10, 11, 12</i> <i>Prerequisite: C or Better in Basic P.E.</i> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> Lifetime Fitness <i>1 Trimester*</i> <i>*Can be taken up to three times per year.</i> <i>Grades 10, 11, 12</i> <i>Prerequisite: C or Better in Basic P.E.</i> </div> </div>		

BASIC P.E. (Graduation Requirement- Students may take any year but must take before graduation.)

.5 credit

Grades 9-12

1 Trimester

Students will demonstrate minimal skills in various sports. They will also demonstrate knowledge and agility footwork. Students are expected to dress everyday and come with appropriate dress.

HEALTH (Graduation Requirement. Students may take any year but must take before graduation.)

.5 credit

Grades 9-12

1 Trimester

This class is geared toward improving self awareness to the student about health issues. The four concepts of health will be applied throughout the class: social health, mental emotional health, and physical health. Students on completion of this course will have a better understanding of, making informed decisions, conflict resolution, abstinence based sexual reproduction, nutritional facts, mental disorders, social disorders, physical fitness benefits, personal safety, personal hygiene, and peer relationships.

INDOOR TEAM SPORTS

.5 credit

Grades 10, 11, 12

1 Trimester

Prerequisite: Basic P.E.

Students who enter this class can plan to be inside the majority of the time. Students will engage in the following activities: basketball, volleyball, floor hockey, table tennis, and badminton. This class is an advanced skill level class and students who are sincere about wanting to improve in these sporting events should sign up. Students should want to be in here not coaxed by the teacher to participate.

OUTDOOR TEAM SPORTS

.5 credit

Grades 10, 11, 12

1 Trimester

Prerequisite: Basic P.E.

Students who enter this class can plan to be outside the majority of the time weather permitting. Students will be engaged in the following activities: Football, Soccer, Frisbee Golf, Track and Field and Softball. This class is an advanced skill level class. Students who are sincere about wanting to improve in these sporting events should sign up. Students should want to be in here not coaxed by the teacher to participate.

OFFICIATING/GAME MANAGEMENT

.5 credit

Age 16 or older

1 Trimester

Prerequisite: Basic P.E.

This course is designed for Students age 16 or older that are interested in learning how to officiate several different sports including basketball, baseball, soccer, softball, track and volleyball. Students will learn in both the game environment as well as online courses.

INTRO TO STRENGTH AND CONDITIONING

.5 credit (may take up to 3 times a year)

Grades 9, 10

1

Trimester

Prerequisite: C or better in Basic P.E.

This course is designed for sophomores who are interested in learning the correct form and technique of weight lifting. The class does not involve many games. Students will lift and exercise using the certified strength and conditioning program. Students can plan on lifting three days a week. Two days a week students will work on agility footwork, balance, and coordination. Students who are interested should sign up.

STRENGTH AND CONDITIONING

.5 credit (may take up to 3 times a year)

Grades 10, 11, 12

1 Trimester

Prerequisite: C or better in Basic P.E.

Students who plan on taking this class should know that it is geared toward athletes participating in interscholastic sports. The class does not involve many games. Students will lift and exercise using the certified strength and conditioning program. Students can plan on lifting three days a week. Two days a week students will work on agility footwork, balance, and coordination. Students who are interested should sign up.

LIFETIME FITNESS

.5 credit (May take up to 3 times per year)

Grades 10, 11, 12

1 Trimester

Prerequisite: C or better in Basic P.E.

This course is designed for sophomores, juniors and seniors who have successfully completed Basic Physical Education. The class emphases are: (1) enhancing physical fitness and improving physical skill through cardiovascular cross-training and exercises including endurance, strength, flexibility, and conditioning activities; (2) body awareness; (3) life-long participation in physical fitness and its importance to overall wellness; and (4) cooperation, responsibility, and good citizenship. Activities will come from a variety of resources, such as P90X, Cross fit, TaeBo, Pilates, both long and short running, and possibly some games.

TECHNOLOGY DEPARTMENT

Technology Department Overview of Classes

Basic Technology Classes	<div>Computer Literacy 1 Trimester Grades 9-12</div>	<div>Desktop Publishing 1 Trimester Grades 9-12</div>	<div>Website Design 1 Trimester Grades 9-12</div>	<div>Intro to Photoshop 1 Trimester Grades 9-12</div>	
	<div>Keyboarding 1 Trimester Grades 9-12</div>	<div>Office Applications 1 Trimester Grades 9-12</div>	<div>Intro to Computer Programming 1 Trimester Grades 9-12</div>	<div>Computer Programming with Python 1 Trimester Grades 9-12</div>	
Advanced Electives	<div>Intermediate Photoshop 1 Trimester Grades 9-12 Prerequisite: Introduction to Photoshop</div>	<div>Advanced Computer Programming with Python 1 Trimester Grades 9-12 Prerequisite: Computer Programming with Python</div>	<div>AP Computer Science Principals 3 Trimesters Grades 9-12 Prerequisite: Algebra 1</div>	<div>AP Computer Science A 3 Trimesters Grades 10-12 Prerequisite: Algebra 1</div>	<div>Technology Computer Systems Independent Study 1 Trimester Must be taken as Independent Study Prerequisite: Technology Staff Approval</div>

COMPUTER LITERACY

.5 credit

Grades 9-12

1 Trimester

Students will develop basic computer application skills with an emphasis on word processing, spreadsheets, and databases. A unit on integration is also covered to demonstrate how an integrated software package shares information between applications.

DESKTOP PUBLISHING

.5 credit

Grades 9-12

1 Trimester

Students will increase their knowledge about desktop publishing. Activities covered in the class will encourage students to use technologies to input, retrieve, organize, manipulate, evaluate, and communicate information. From a career standpoint a student completing this course will receive exposure in a variety of career-related fields such as graphic design, advertising, and magazine design.

WEBSITE DESIGN

.5 credit

Grades 9-12

1 Trimester

This class introduces many of the basic concepts and techniques related to designing and developing web sites. Information covered includes web design, HTML, and XHTML. Sites will be created manually and through the use of web site development software.

INTRODUCTION TO PHOTOSHOP CS5 A

.5 credit

Grades 9-12

1 Trimester

Learn to use Adobe Photoshop CS5 to edit images, process photos, and create original graphics. This hands-on, project-oriented course is filled with detailed, step-by-step instructions to guide you as you work with graphic elements, edit photos, create basic paintings, and prepare your images for printing. This is not a photography course.

INTERMEDIATE PHOTOSHOP CS5-B

.5 credit

Grades 9-12

1 Trimester

Prerequisites: Intro to Photoshop CS5-A

This course explores new and better ways to create images and edit photos. Students will explore the sophisticated selection and layers features that allow users to combine images in amazing ways as well as making tonal and color adjustments.

KEYBOARDING

.5 credit

Grades 10-12

1 Trimester

Keyboarding is an elective course designed to enhance the students' typing ability along with various office skills. The student will develop basic touch keyboarding skills including proficiency in keyboarding alpha characters, top-row numbers, symbols, ten-key numeric pad and special function keys. Correct fingering by touch and good technique will receive primary emphasis; speed and accuracy will then follow the skills acquisition. After students know the keyboard, they will be introduced to business writing skills in the form of letter correspondence and word processing skills for editing and formatting. Additional word processing skills for formatting multiple page documents and tables will be learned as well.

OFFICE APPLICATIONS

.5 credit

Grades 10-12

1 Trimester

Prerequisites: KEYBOARDING

This second trimester focuses on in-depth formatting of office documents using Microsoft Word and office simulations. This course is designed for the person who wishes to pursue a career in the business and/or office field.

INTRODUCTION TO COMPUTER PROGRAMMING

.5 credit

Grades 9-12

1 Trimester

Introduction to computer programming will serve as a foundational course which aims to introduce students to the ever-evolving world of computer programming and computer science. Through the exploration of a variety of programming languages and programs students will learn fundamental programming skills which will be utilized to create interactive computer programs and models. Designed as an introductory class, students will be exposed to a variety of methods and challenged to create functional programs to solve a variety of problems. The primary focus of this course will be to introduce computational thinking and problem solving that will benefit students across a variety of disciplines, including business, engineering, physical sciences, health care, and computer science.

COMPUTER PROGRAMMING WITH PYTHON

.5 credit

Grades 9-12

1 Trimester

Students will learn how to create computer programs using the Python language. There will be a focus on learning computer programming skills, including functions, lists, iteration and conditionals, while developing modeling and problem-solving skills. Students will create a variety of programs. This course is open to all grade levels, and requires no previous programming experience.

ADVANCED COMPUTER PROGRAMMING WITH PYTHON

.5 credit

Grades 9-12

1 Trimester

Prerequisites: Computer Programming with Python

Expanding on the concepts presented in Computer Programming with Python, Advanced Computer Programming delves further into the world of computer science. Using the programming language Python, students will apply computational thinking and reasoning to create complex and integrated programs.

AP COMPUTER SCIENCE PRINCIPLES

1.5 credit

Grades 9-12

3 Trimesters

Prerequisites: Algebra I

AP Computer Science Principles (CSP) is a full—year, rigorous, entry—level cours that introduces high school students to the foundations of modern computing. The course covers a broad range of topics that make up computing such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. The course is designed around the AP Computer Science Principles Framework and prepares students to take the AP exam and to complete the AP Performance Tasks.

AP COMPUTER SCIENCE A

1.5 credit
Prerequisites: Algebra I

Grades 10-12

3 Trimesters

The course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development, and is meant to be the equivalent of a first-semester college-level course in computer science. It also includes the study of data structures, design, and abstraction. It is intended to serve both as an introductory course for computer science majors and as a course for people who will major in other disciplines that require significant involvement with technology. By completion of the course students should be able to:

- Design and implement solutions to problems by writing, running, and debugging computer programs.
- Use and implement commonly used algorithms and data structures.
- Develop and select appropriate algorithms and data structures to solve problems.
- Code fluently in an object-oriented paradigm using the programming language Java. Students are expected to be familiar with and be able to use standard Java library classes from the AP Java subset.
- Read and understand a large program consisting of several classes and interacting objects. Students should be able to read and understand a description of the design and development process leading to such a program.
- Recognize the ethical and social implications of computer use.

TECHNOLOGY COMPUTER SYSTEMS INDEPENDENT STUDY

.5 credit *(may take multiple times)*
Prerequisite: Instructor approval

Grades 9-12

1 Trimester

This independent study gives hands-on experience in all aspects of working in the field of technology. Students will work with trouble-shooting, software and hardware repair and more. This is a highly limited class subject to instructor approval. Recommended only for students considering a career within the technology field.

EXTENDED LEARNING OPPORTUNITIES

Additional Learning Opportunities

At Hopkins High School	<div style="border: 1px solid black; padding: 5px; text-align: center;"> SAT Prep 1 Trimester Grade 11 only </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Yearbook 3 Trimesters Grades 11, 12 Prerequisites: B or Better in all English courses and Instructor approval. </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Peer Assistant Listeners (PALS) 2+ Trimesters Grades 10, 11, 12 Requires Staff Nomination </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Theater Technical Training 1 Trimester Grades 9-12 Students can take multiple sections. </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Online Learning through E2020 1 Trimester Grades 9-12 Requires administrative approval. </div>
At Allegan Area Technical & Education Center	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Auto Technology 2 years Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Building Trades I & II 2 years Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Computer Information Systems 2 Years Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Criminal Justice 1 year Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Culinary Arts 2 years Grades 11, 12 </div>
	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Employable Skills 1 year Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Engineering, Electronics & Robots 2 Years Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Graphic Art & Design 1 year Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Health Care Science Foundations 1 year Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Health Occupations Academy 1 year Grade 12 Prerequisite: Health Care Science Foundations </div>
	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Heavy Equipment Technology 2 years Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Machining & CNC Technology 2 years Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Small Business Operations 1 year Grades 11, 12 Prerequisite: Instructor Recommendation Only </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Teacher Education 1 year Grades 11, 12 </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> Veterinary Technical Sciences 1 year Grades 11, 12 </div>
				<div style="border: 1px solid black; padding: 5px; text-align: center;"> Welding Technology 1 year Grades 11, 12 </div>	

SAT PREP

.5 credit

Grade 11

1 Trimester (2nd Trimester)

Prerequisite: Junior Standing

This class will offer juniors an understanding of the college entrance SAT exam. Students will become familiarized with standardized testing and test-taking tips. This course will focus on math and English. Students will work in a smaller class setting to get more individualized instruction and help. Students will then take the SAT in April.

YEARBOOK

1.5 credit

Grades 11, 12

3 Trimesters

Prerequisites: "B" average grade or better for each semester in all previous English courses and approval of the instructor is required for admission.

This course is designed to teach students to plan, finance, and design a yearbook for publication. Students will learn business principles, responsibilities, and ethics of the press in a free society. Students will use modern desktop publishing technology to produce *The Reflector*, the student yearbook for Hopkins High School.

PEER ASSISTANT LISTENERS (P.A.L.S.)

.5 credit

Grades 10, 11, 12

2+ Trimesters

Prerequisite: Staff Nomination, *Can be taken once per trimester*

Students learn the art of effective listening and increase their problem solving skills in order to work with peers who have a variety of concerns including academic and personal problems. In order to be selected for this class, students must be nominated by the student body through a classroom survey, followed by an interview process and teacher approval. The P.A.L. advisors have the right to determine who will participate in the P.A.L. program. The students chosen to participate will be in class for 1 trimester and then during 2nd or 3rd trimester will be placed at Hopkins Elementary or Hopkins Middle School where they will work one-on-one or in small groups with students. PALS may schedule additional trimesters of placements at their own convenience after completing the above requirements.

THEATER TECHNICAL TRAINING (I, II, III, IV)

.5 credit

Grades 9- 12

1 Trimester

students can take multiple times

Technical Theater class instructs and educates students about basic backstage work, lighting, audio, props, scene shop building, performance communication, and safety guidelines in regards to assisting in the production of our district's/community's plays, musicals, concerts, and performances.

ONLINE LEARNING THROUGH E2020

.5 credits

Grades 9-12

1 Trimester

Extended learning opportunities through online courses are available to supplement pathway choices. These offerings are available only to complete schedules and by administrative approval. These options will become available after scheduling procedures are complete.

INDEPENDENT STUDY

.5 credits

Grades 11-12

1 Trimester

Students have the opportunity to apply for an independent study class that would either be an extension of prior learning or career exploration. An application must be completed by the student and approved by a sponsoring staff member and administration.

EARLY COLLEGE CREDIT OPPORTUNITIES

Varying credits available

Hopkins High School is proud to offer multiple opportunities for students to earn college credit for advanced classes. See APPENDIX B for more information at a glance. If you are interested in pursuing college credits during high school, contact your high school counselor.

ALLEGAN AREA TECHNICAL EDUCATION CENTER

1 credit per trimester

Grades 11 & 12

3 Trimesters

Prerequisite: Junior or Senior Standing

See all of the courses currently offered at the tech center on Appendix A at the end of this document.

ALLEGAN COUNTY EARLY COLLEGE ACADEMY

Early College Allegan County- Early College Allegan County is a three year program that allows students to complete high school requirements and an Associate's Degree from Lake Michigan College concurrently. Students spend their junior and senior years ½ time at high school and ½ time at LMC's satellite campus in Allegan. During the 13th year, students will be enrolled fulltime at LMC.

Juniors and Seniors have the opportunity to take College Classes through LMC at the Allegan Area Technical Education Center. Students who enroll in the Early College Academy must take all the offered classes. The morning session runs from 8:15 a.m. to 10:15 a.m. and the afternoon session runs from 11:45 a.m. to 1:45 p.m.

For more information: Contact Lake Michigan College Early College Department at 1-800-252-1562 ext. 6198 or ask your high school counselor.

DUAL ENROLLMENT

Varying credits

Students may enroll in up to 10 courses at Michigan public or private colleges or universities, if all of the following conditions are met:

1. Students are in grades 9-12.
2. Students receive a qualifying score on either the Accuplacer or SAT.
3. Students are enrolled in both the school district and postsecondary institution during the local school district's regular academic year and must be enrolled in at least one high school class.
4. The district must not offer the college courses.

APPENDIX A

Tech Center Course Descriptions 2022-23

- 1. AUTO TECHNOLOGY – Room 170.** Troubleshoot, disassemble and repair electrical, fuel, brakes, engines, suspension and steering systems, including use of computerized equipment. *Should have mechanical ability and willingness to learn new hands-on skills.*
- 2. BUILDING TRADES, I & II – Room 250 Classroom & 260 Shop.** Learn basic skills involved in the construction industry; masonry, electric wiring, plumbing, heating, and air-conditioning; work from blueprints. *Math measuring skills are essential; as well as a mature, responsible attitude. Good work ethic and willingness to work in all-weather are needed.*
- 3. COMPUTER INFORMATION SYSTEMS – Room 175.** Students will troubleshoot computer problems while gaining hands-on experience with computer hardware, software, operating systems, network configuration, and cyber security. *Critical thinking and problem-solving skills helpful, strong work ethic, and ability to multitask.*
- 4. CRIMINAL JUSTICE – Room 320 (west wing).** Learn about the wide range of careers available in law enforcement, courts, corrections, and private security. Learn problem solving skills, crime scene processing, evidence collection, criminal law, and application. *Must be mature, possess personal integrity and high ethical standards.*
- 5. CULINARY ARTS – Room 110A.** Learn new cooking methods, ways to serve customers, ways to prepare large quantities of food, baking, cake decorating, and catering services. *Must be self-motivated and have a strong work ethic.*
- 6. EMERGENCY MEDICAL SERVICES (EMS) – Room 160.** Learn the knowledge, skills, and judgment to treat patients with complicated medical or traumatic conditions where proper care can literally make the difference between life and death. While EMS is a critical component in healthcare, it is also a great entry into law enforcement, any other medical occupations, military, or firefighting. *EMS is great for students who love helping others, work well under pressure, and can think quickly on their feet.*
- 7. EMPLOYABILITY SKILLS* – Room 210A.** Learn how to get and keep a job! Students will attend a work site where they get hands-on experience with the soft skills needed for successful employment. Classroom seminars will help students gain experience filling out applications, creating resumes and practicing interview skills. Additionally, students will explore various job opportunities through field trips to local community businesses. **This class is specifically for students with an IEP through Specialized Instruction.*
- 8. ENGINEERING, ELECTRONICS & ROBOTS – Room 165.** Investigate the fun and exciting world of engineering through hands-on projects (e.g., underwater remote operated vehicle [ROV], pumpkin launchers, robots, electronic devices.) Students will apply the Engineering Design Method while using 2D and 3D design software, 3D printers, hand tools, and power tools to build electronic circuits, program Arduino/Raspberry Pi devices, program an industrial FANUC robotic arm, and learn digital application competencies. *Should be able to work both individually and in a team. Good math skills are recommended.*
- 9. GRAPHIC ART & DESIGN – Room 185.** Everything that is not made by nature is designed by someone. Learn entry level skills using Adobe Create Suite programs of Illustrator, InDesign and Photoshop as used in the industry. Start with type design, font anatomy, layout, and creation of printed publications. Use the software to produce posters, fliers, brochures, logos and more. Each trimester will specialize in key skills for design careers such as Digital Photography, Illustration, and Graphics. Will learn creative problem-solving along with industry math, public speaking, and customer service. *Will use a fast-paced, client-deadline driven model, learning to accept constructive criticism for feedback and revisions.*
- 10. HEALTH CARE SCIENCE FOUNDATIONS – Room 125.** Prepares students for entry-level health care employment and provides the foundation for further training in advanced health services occupations. Learn anatomy, physiology, medical terminology, and patient relations. *Must be mature, respect confidentiality, willing to take direction, good at multitasking and working with others.*
- 11. HEALTH OCCUPATIONS ACADEMY – Room 145.** In this 2nd year health care program, students may be eligible to complete the Patient Care Technician certification exam, will complete college-level medical terminology, advanced anatomy, and physiology. They will have the opportunity to job shadow in several health care fields. *Successful completion of Health Care Science Foundations required for enrollment.*
- 12. MACHINING & CNC TECHNOLOGY – Room 140.** Students will cut and shape steel, brass, aluminum and other materials into various sizes and configurations from blueprints using specialized tools and equipment. Learn manual machine techniques as well as computerized machinery (CNC) and Computer-aided Machining (CAM). *Take this class if you enjoy working with your hands, are mechanically inclined, and want to learn about the machining trade.*
- 13. HEAVY EQUIPMENT TECHNOLOGY – Room 200.** Students will learn about basic electrical and shop principles, welding, diesel engines, backhoe, wheel loader, power trains, hydraulics, excavator, bulldozer, and forklift operation/maintenance. *Should be a detail-oriented, analytical thinker, and a complex problem-solver who is not afraid to get dirty.*
- 14. SMALL BUSINESS OPERATIONS* – Room 120.** Small Business Operations is a one-year course that is designed to introduce students to a wide array of hands-on skills with an emphasis on refining all the soft-skills necessary to gain and keep employment in today's work world. **This class is specifically for students with an IEP through Specialized Instruction.*
- 15. TEACHER EDUCATION – Room 230.** Students will be assigned classroom placements, preschool-8th grade, throughout Allegan County. They will study teaching principles and classroom management for all grade levels while planning, preparing, and presenting lesson plans in various classrooms. This program also benefits future counselors, social workers, or anyone with an interest in working with children. *Should be mature, self-motivated, and organized.*
- 16. VETERINARY TECHNICAL SCIENCES – Room 195.** Explore the knowledge and skills needed to enter the veterinary medicine field. Students will learn the anatomy and physiology of animal systems and how those systems work together to keep animals healthy. Students will learn animal handling, restraint, vaccination, reproduction, nutrition, and systems monitoring. Students will use the scientific method to conduct a self-determined research project. *Should be a self-motivated, dependable worker who can handle multiple tasks and duties and be able to work in teams.*
- 17. WELDING TECHNOLOGY – Room 150.** Build and repair metal parts; work from blueprints; learn arc, gas, MIG, TIG, oxyacetylene welding; work on layout problems and fabrication projects; work with math and metals. *Should have good attendance and an ability to work well with others. Hard workers will be recommended for jobs by the instructor.*

APPENDIX B

The Allegan Advantage **Lake Michigan College, Dual Enrollment Academy at ACATEC**



Classes Ending by 12:00 PM					
Courses	CRN	Course Name	Time	Days	Credits/Contacts
ENGL 101	12066	English Comp.	8:30-10:00	M/W	3 credits/3 contacts
ENGL 101	13137	English Comp.	8:30-10:00	M/W	3 credits/3 contacts
GEOG 101	12942	Human Geography	8:30-10:00*	M/W	4 credits/4 contacts
BUSA 104	12456	Salesmanship	8:30-10:00	M/W	3 credits/3 contacts
BIOL 101	11696	Biological Science	8:30-11:10	M/W	4 credits/5 contacts
ART 204	13534	Art History 1945-present	9:30-11:00	M/W	3 credits/3 contacts
COMM 101	11343	Intro to Public Speaking	8:30-10:00	T/R	3 credits/3 contacts
HIST 202	11946	American History	8:30-10:00	T/R	3 credits/3 contacts
BUSA 115	11645	Principles of Customer Service	8:30-10:00	T/R	3 credits/3 contacts
BUSA 205	11915	Business Law I	10:30-12:00	T/R	3 credits/3 contacts
MATH 129	12992	Finite Mathematics	8:30-10:30	T/R	4 credits/4 contacts
PSYC 203	13573	Human Development	8:30-10:00	T/R	3 credits/3 contacts
PSYC 203	13574	Human Development	10:30-12:00	T/R	3 credits/3 contacts
SOC 205	11753	Race and Ethnic Relations	8:30-10:00	T/R	3 credits/3 contacts
SOC 205	11909	Race and Ethnic Relations	10:30-12:00	T/R	3 credits/3 contacts
POSC 101	12132	National Government	8:30-10:00*	F	3 credits/3 contacts
MUSI 187	12123	History of Rock Music	8:30-10:00*	F	3 credits/3 contacts

Classes Ending after 12:00 PM					
Courses	CRN	Course Name	Time	Days	Credits/Contacts
ENGL 101	13138	English Comp.	12:15-1:45	M/W	3 credits/3 contacts
ENGL 101	13430	English Comp.	12:15-1:45	M/W	3 credits/3 contacts
GEOG 101	13275	Human Geography	12:15-1:45*	M/W	4 credits/4 contacts
ART 204	13535	Art History 1945-present	11:30-1:00	M/W	3 credits/3 contacts
BIOL 101	11852	Biological Science	12:00-2:40	M/W	4 credits/5 contacts
COMM 101	12989	Intro to Public Speaking	12:15-1:45	T/R	3 credits/3 contacts
HIST 202	12339	American History	12:15-1:45	T/R	3 credits/3 contacts
HIST 202	13723	American History	12:15-1:45	T/R	3 credits/3 contacts
POSC 101	11283	National Government	12:15-1:45*	F	3 credits/3 contacts
MUSI 187	13240	History of Rock Music	12:15-1:45*	F	3 credits/3 contacts
BUSA 103	12367	Intro to Business	12:15-1:45*	F	3 credits/3 contacts

*This class is offered in a Blended format and requires attendance at the scheduled meeting time and online participation. Instructional time is less than 75% online.

For additional information contact Jeremy Schaeffer, Director of Admissions and Recruitment, jschaeffer@lakemichigancollege.edu or (269) 927-6596