

# Holy Savior Menard Central High School Curriculum Guide

## ART / FINE ARTS DEPARTMENT

### **Art I (1 Credit)**

This is a full year course, *an art opportunity for all students*. This high-quality art program helps students expand higher order thinking skills through rigorous dialogues, employing a wide variety of media and techniques in meaningful art-making experiences. Students develop a visual vocabulary and maintain a sketchbook journal while advancing skills in keen observation, critical thinking, and evidential reasoning. Students become responsive communicators through visual expression, reading, writing and speaking. Students will take a museum trip to view a regional art exhibit and participate in the HSM annual student art exhibit.

### **Art II (1 Credit)**

This is a full year course for students to continue their study of art, expanding art production in challenging 2 and 3-dimensional art works. Students explore computer-generated art, based on self-expressive designs. Students continue to expand higher order thinking skills through rigorous dialogues, employing a wide variety of media and techniques in meaningful art-making experiences. Students widen a visual vocabulary and maintain a sketchbook journal while advancing skills in keen observation, critical thinking, and evidential reasoning. Students are responsive communicators through visual expression, reading, writing and speaking. Students will take a museum trip to view a regional art exhibit and participate in the HSM annual student art exhibit.

**Prerequisite:** Art I with teacher recommendation.

### **Art III (1 credit)**

A higher level studio experience in art, this course is designed to further develop the student's personal style, techniques and media preferences. Students continue to expand higher order thinking skills through rigorous dialogues, employing a wide variety of media and techniques in meaningful art-making experiences. Students broaden their visual vocabulary and maintain a sketchbook journal while advancing skills in keen observation, critical thinking, and evidential reasoning. Students are responsive communicators through visual expression, reading, writing and speaking. Students will take a museum trip to view a regional art exhibit and participate in the HSM annual student art exhibit. **Prerequisites:** Art I and II with teacher recommendation.

### **Art IV (1 Credit)**

This is a senior level course designed for students planning to major in art or work in an art-related field. An individual plan meets the personal interests and needs of the student. Students continue to expand higher order thinking skills through rigorous dialogues, employing a wide variety of media and techniques in meaningful art-making experiences. Students employ their visual vocabulary and maintain a sketchbook journal while advancing skills in keen observation, critical thinking, and evidential reasoning. Students become expert communicators through visual expression, reading, writing and speaking. Students will take a museum trip to view a regional art exhibit and participate in the HSM annual student art exhibit. **Prerequisites:** Art I, II and III with teacher recommendation.

### **Band - Beginning, Intermediate, Advanced (1 credit)**

Students explore and develop creative expression by playing brass, woodwind, or percussion instruments and performing a variety of styles. Students develop collaboration, critical thinking, and learn appropriate care, handling, and maintenance of musical instruments. The purpose is to develop communication through rehearsal and performance experiences. Includes practice and instruction time for the Menard Eagle Core/Drum Corps. It will also provide a basic look at general music theory and an overview of the history of musical styles and genres, with an emphasis on modern American musical forms.

### **Chorus (1 credit)**

Beginning chorus will include general music theory, study of rhythm, melody, and harmony. Basics of sight-singing, diction, matching pitch, diaphragmatic breathing, and vocal production will be taught.

### **Dance (1 credit)**

Students explore dance forms (e.g. modern, jazz, contemporary, etc.) applying the dance elements, principles of design, and dance benchmarks. They develop collaboration, critical thinking, and social skills. The purpose is to establish communication through performance. Students perform and prepare for further study. **Prerequisite:** Be a member of the Holy Savior Menard Golden Eaglettes, junior or senior standing

### **Fine Arts Survey (1 Credit) (Dual enrollment through LaTech - ART 290- 3 College Credits)**

Recommended for college bound junior and senior students, this comprehensive program of study provides students with an exploration of art, music, drama and dance. All students participate in a 19-unit presentation from LA Tech which is viewed in the classroom. Students attend four community presentations to extend and broaden experiences in the arts. Higher order thinking skills expand through rigorous dialogues, employing a wide variety of media and techniques in meaningful art related experiences. Students develop a visual vocabulary and maintain a sketchbook journal while advancing skills in keen observation, critical thinking, and evidential reasoning. Students become responsive communicators through visual expression, reading, writing and speaking. Students will take a museum trip to view a regional art exhibit and participate in the HSM annual student art exhibit. **Prerequisite:** ACT composite score of at least 22 or PLAN composite score of at least 20.

### **Media Arts I (Digital Photography) (1 Credit)**

Students expand higher order thinking skills through rigorous dialogues, employing a wide variety of media and techniques in picture-taking and meaningful art production experiences. Students have a monthly printing assignment of 10 – 20 photographs along

with an 8" x 10" "Best Shot" of the month. Students work related computer programs for art production as well as create an on-line book—a collection of their own photographs. Students develop a visual vocabulary and maintain a portfolio while advancing skills in keen observation, critical thinking, and evidential reasoning. Students become responsive communicators through visual expression, reading, writing and speaking. Students will take a museum trip to view a regional art exhibit, as well as several on-location trips for specific photographic assignments. Students also participate in the HSM annual student art exhibit. **Items needed:** digital camera, camera manual, memory card, jump drive and some supplies.

### **Speech (1 Credit)**

This course is an introduction to speech-making based primarily on a traditional public speaking approach. Designed to help students in the practical application of oral communication skills through preparing informative, demonstrative, and persuasive speeches, learning how to structure and organize information to present to a variety of audiences, and developing physical and vocal delivery skills. In addition, oral interpretation of children's books, poems, cutting of plays, and types of propaganda will be studied and presented. Basic parliamentary procedure will be learned by forming a club and following the rules. Lastly, pantomime, basic acting situations, and short drama cuttings will be introduced and mastered. **Prerequisite:** Grades 10-12

### **Theater Arts I (1 Credit)**

This course is designed to develop the skills necessary to become an effective communicator. Skills such as learning to have self-confidence, to listen carefully, to organize ideas, to prepare and practice, to be aware of nonverbal messages and to develop interpersonal skills are a few areas that will be studied. Students will also study improvisation, voice control, and oral interpretation. Students are responsible for producing the annual musical and must be involved on or off stage. **Prerequisite:** Permission of the instructor.

### **Theater Arts II (1 Credit)**

This class will be exploring the art of acting and different aspects of the stage. Some lessons are monologs, set design, costuming, puppetry, make-up and Theater "business." Students are responsible for producing the annual musical and must be involved on or off stage. **Prerequisite:** Permission of the instructor.

## **COMPUTER DEPARTMENT**

### **Business Computer Applications (1 Credit)**

Computer Applications offers students the fundamentals of various computer programs. Students will learn keyboarding, basic word processing, database and spreadsheet programs, as well as graphic design and powerpoint programs.

### **Computer Science (1 Credit)**

Computer Science I is full-year elective designed for students interested in studying the structure and power of a programming language. This course will use **Java** as the computer language in which object oriented programming and design will be introduced. A brief overview of the development, design and functionality of a computer will be included, but this is basically a course in problem solving. Logical solution structure in terms of program development will be emphasized. Topics such as data manipulation, decision statements, repetition, and array structure will be covered. Group work will be incorporated, providing students an opportunity to interact with classmates. **Prerequisite:** Junior or senior standing and teacher recommendation or consent of the instructor.

## **ENGLISH DEPARTMENT**

### **English I (1 Credit)**

This course integrates composition, vocabulary, and research skills in a genre-based approach to the study of literature. Students learn literary elements of the short story, classical drama, novel, and poetry.

### **English I Honors (1 Credit)**

This course integrates composition, vocabulary, and research skills in a genre-based approach to the study of literature. Students learn literary elements of the short story, classical drama, novel, and poetry. Additional reading and writing is required. **Prerequisites:** Based on standardized test scores and previous English grades (no grade lower than a B).

### **English II (1 Credit)**

This course incorporates vocabulary, composition, and research skills in a chronological study of American literature with historical and cultural background from pre-colonial times to the present. **Prerequisites:** Credit earned in English I or English I Honors.

### **English II Honors (1 Credit)**

This course incorporates composition, vocabulary, and research skills in a chronological study of American literature with historical and cultural background from pre-colonial times to the present. Additional reading and writing is required. **Prerequisites:** Based on standardized test scores and English I grades (no grade lower than a B).

### **English III (1 Credit)**

This course follows a chronological study of British literature with historical and cultural background beginning with the Anglo-Saxons. Students develop composition and research skills. Independent reading is required. **Prerequisites:** Credit earned in English II or English II Honors.

### **English III Honors (1 Credit)**

This course follows a chronological study of British literature with historical and cultural background beginning with the Anglo-Saxons. An increased amount of composition, research, and independent reading is required. **Prerequisites:** Based on standardized test scores and English II grades (no grade lower than a B).

### **English IV (1 Credit)**

The primary focus in English IV is a year-long study of composition with emphasis on various types of writing, including personal essay, resume, literary analysis, and research paper. Selections from world literature are incorporated as an impetus for writing. Vocabulary study and outside reading is included. **Prerequisites:** Credit earned in English III or English III Honors.

### **English IV Honors (1 Credit) (Dual enrollment through LaTech-English 101/102 - 6 College Credits)**

**English 101** - English 101 is the standard course for first year college students. It offers an introduction to composition and analysis of the essay and its rhetorical strategies. A grade of "C" or higher is required to advance to English 102. **Prerequisites:** ACT composite score of 22 or greater and English sub-score of at least 18. English III grade no lower than a B.

**English 102-** This course continues work of Composition I and includes preparation of a research paper from library sources. **Prerequisite:** English 101 or an English sub-score of 30 on the ACT.

### **AP English IV (1 Credit)**

This course is an in-depth study of English and world literature, with academic writing. The content includes additional interpretative work and advanced theme writing, stressing style and maturity, including a literary research paper. This course should lead the student toward testing out of college English courses. **Prerequisites:** Based on standardized test scores and English III grades (no grade lower than a B)

### **World Mythology and Epic (1 Credit)**

This course is designed to provide the student with a beginning knowledge of mythology and the epic from Western and Eastern world cultures. Students will study world mythologies and their relationship to contemporary culture, exploring why such stories have remained timeless. **Prerequisite:** Junior or senior standing

### **Journalism I (1 Credit)**

This course is a survey of the basics of writing news, features, editorials, reviews, headlines, and cut lines. The course includes newspaper history, journalism law, and ethics. Editing, layout and design, and photography are included. The class produces the student newspaper quarterly. Students are trained in desktop publishing for the production of the newspaper. Above average typing skills are recommended. Class size is limited. **Prerequisite:** B or better in English and junior or senior standing

### **Journalism II (1 Credit)**

Students in this course lead the production of the student newspaper as editors and co-editors. They share the responsibility of instructing the Journalism I students in the design and layout of the newspaper on the current desktop publishing program. Class size is limited. **Prerequisite:** Journalism I.

### **Publications Lab (1 Credit)**

This class produces the yearbook. The first half of the course focuses on desktop publishing and learning the mechanics of putting together the yearbook. Students will sell ads to support the yearbook. The second half concentrates on construction of the yearbook. Technology allows students to work in the classroom and at home. *Students must have the initiative to work alone and meet hectic deadlines.* Class size is limited. **Prerequisites:** Computer or digital photography course, B or better in English, junior or senior standing

## **FOREIGN LANGUAGE DEPARTMENT**

### **French I (1 Credit)**

This course is designed for the student who has little or no previous foreign language education. French I introduces the basic grammar and pronunciation fundamentals. Active participation in reading, writing, listening and speaking activities help form the foundation for oral and written communication. French culture is explored through class discussion.

### **French II (1 Credit)**

The basic fundamentals learned in French I are used to improve reading and writing skills. Active participation in contextual communication activities prepares the students for increased fluency. A better understanding of the French people is enhanced through class discussions. **Prerequisite:** French I

### **French III (1 Credit)**

Active use of the language is the focus through guided discussion, conversations and selected prose readings. Students also study advanced French grammar. Advanced vocabulary study is added to increase communication skills. **Prerequisite:** French I and II

### **Spanish I (1 Credit)**

This course is an introduction to Spanish. Basic conversational skills are taught through grammar, vocabulary, and pronunciation fundamentals. Active oral use of the language is stressed in contextual situations as well as through the development of reading, writing and listening skills. Introduction to the Spanish culture is also incorporated through discussion and individual projects.

### **Spanish II (1 Credit)**

More advanced grammar techniques are taught to enhance linguistic and conversational fluency. More emphasis is on original compositions and dialogues. There is an introduction to the culture of Latin America through reading, discussion and projects. A solid Spanish I background is necessary. **Prerequisite:** Spanish I

### **Spanish III (1 Credit)**

Emphasis is on guided, discussion-oriented conversations and short stories, while fine-tuning grammatical aspects. Advanced vocabulary is added for more accurate expression. Active participation is a must. Little English is spoken by teacher or student. **Prerequisites:** Spanish I and II.

### **Spanish IV (1 Credit)**

Emphasis is on conversation, literature, and cultural issues while practicing grammatical aspects. Active participation is necessary. Little English is spoken. **Prerequisites:** Spanish I, II, III

## **MATHEMATICS DEPARTMENT**

### **Algebra I (1 Credit)**

Algebra I is the first course in a college-preparatory program. Students will develop skills to solve linear equations and inequalities using one or more variables, to factor polynomials and perform operations in algebraic fractions, to perform simple operations with matrices, and to graph linear equations in the coordinate plane in order to develop general problem solving skills.

### **Algebra I Honors (1 Credit)**

The Honors Algebra I course includes the content of Algebra I and also treats linear functions, solving systems of linear equations, radicals, operations with matrices, and solving quadratic equations. If time permits, some of the time is given to introductory probability. **Prerequisite:** Qualifying standardized test scores and previous year's math grade (no grade lower than a B).

### **Geometry (1 Credit)**

Geometry develops the skills of inductive and deductive reasoning through the study of properties of plane figures. Geometry also applies algebra skills to solve equations related to plane figures. It also requires mastery of two-column deductive proofs. **Prerequisite:** Algebra I

### **Geometry Honors (1 Credit)**

Geometry Honors exceeds the requirements of the regular geometry course. It requires a more in-depth study of complex concepts of polygonal regions and solid figures than those offered in the regular geometry course. **Prerequisites:** Algebra I or Algebra I Honors, and qualifying standardized test scores, previous year's math grade (no grade lower than a B).

### **Algebra II (1 Credit)**

Algebra II is designed to complete the student's mastery of the basic algebraic skills learned in Algebra I and to teach the student to use these skills to solve various problems. It introduces complex numbers, masters the functions of matrices and applies matrices in solving linear equations, examines polynomial, quadratic, exponential and logarithmic functions algebraically and graphically. The foundations of trigonometry are introduced. **Prerequisites:** Algebra I

### **Algebra II Honors (1 Credit)**

The course covers the material of Algebra II, but with more emphasis on theory. The student is also introduced to linear programming. Additional selected topics of trigonometry are covered. Calculators are used to solve problems and to aid in the graphing of functions. **Prerequisites:** Algebra I and qualifying standardized test scores, previous year's math grade (no grade lower than a B).

### **Advanced Mathematics - Precalculus (1 Credit)**

The purpose of Advanced Math is to prepare students for college algebra, college trigonometry and Pre-Calculus. The course will begin with an extensive review of Algebra and Analytic Geometry. Topics covered after the review will be conics, matrices, and trigonometry. **Prerequisite:** Algebra II and Geometry.

### **Advanced Mathematics - Precalculus Honors (1 Credit) (Dual Enrollment through LaTech - Math 101/112 - 6 College Credits)**

**Math 101-** Covers radical expressions; rational exponents; complex numbers; quadratic, absolute value; rational equations; systems of linear equations; inequalities; functions; conics; graphs; inverse, exponential, logarithmic functions; and applications. A graphing calculator is required. (A grade of "C" or better is required to advance to any higher numbered math course.) **Prerequisites:** ACT composite score of 22 or greater and a math sub-score of at least 22, or consent of the department.

**Math 112-** This course studies solution of right triangles, reduction formulas, functions of multiple angles, trigonometric equations, inverse functions, and complex numbers. **Prerequisite:** A grade of "C" or better in Math 101, or Math ACT sub-score of 26 or greater.

### **Advanced Mathematics - Functions (1 credit) (Remedial Dual Enrollment- 4 Non-degree College Credits)**

**Math 099** - This course is designed to prepare the student for college-level instruction. It covers arithmetic, polynomials, functions and graphs, special products and factoring, rational expressions, systems of linear equations, exponents, radicals, equations, and applications of equations. **Prerequisites:** Algebra II, ACT composite score of at least 15 and a Math sub-score less than 19.

### **Calculus (1 Credit)**

Calculus consists of work in calculus and related topics. Major topics are elementary functions, differential calculus, and integral calculus. **Prerequisite:** Advanced Mathematics-Precalculus

### **AP Calculus (1 Credit)**

AP Calculus consists of work in calculus and related topics, comparable to courses in colleges and universities. Major topics are elementary functions, differential calculus, and integral calculus. **Prerequisite:** Advanced Mathematics-Precalculus Honors

### **Probability and Statistics (1 Credit)**

This course treats basic ideas of probability, sequences and series, handling of numerical data (including displays of quantitative and categorical data [e.g. boxplots, scatterplots, contingency tables]), random variables, binomial and normal distributions, and sampling. Students will be introduced to the major concepts and tools used for collecting, analyzing and drawing conclusions from data. They will explore data through observations of patterns; plan a study and decide what and how to measure; anticipate patterns through production of models using probability theory and simulation; and study statistical inference by confirming models. **Prerequisite:** Completed and passed four years of high school Math.

## **RELIGION DEPARTMENT**

### **Religious Studies I (9<sup>th</sup> Grade) (1 Credit)**

#### *Fall Semester*

The student will focus their thoughts on the literature, history, and religious significance of the Old Testament. Through this emphasis, the student will better be able to understand and interpret Scripture as well as become aware of the history of the Israelite people and their view of God. The student will journey with the Chosen People from their call through Abraham, to their freedom through Moses, to their time as a nation and kingdom in the Promised Land. The student will come to realize that God guides his people to an ever deeper relationship with him, as he prepares the world for the fullest revelation through his Son.

#### *Spring Semester*

The student will study the writings of the New Testament and how they help us to gain a full picture of who Jesus is as well as the understanding of the role of the Church in the early centuries of its existence. The student will continue his/her journey toward God as the course examines Jesus as presented in the Gospels. The student will also come to recognize the call of God to each person to bring the faith he/she has to others. Through an examination of the writings of the New Testament, meant to instruct, admonish, and encourage believers, the student will have a deeper understanding on how he/she can live a life of faith in the world.

**Textbook used:** *Understanding The Scriptures: A Complete Course On Bible Study* (The Didache Series - Midwest Theological Forum)

### **History of Religion (10<sup>th</sup> Grade) (1 Credit)**

The student will discover the value of the Church in the world and in his/her personal life. To help the student in this task, the key figures of the Church along with the major theological developments and movements within the Church, including the triumphs and obstacles, will be examined. Through exploration of the legacy of Christ's teachings that continue through the Church and her members, the student will see how he/she is called to continue the message of Christ in this day and age.

**Textbook used:** *The History of The Church: A Complete Course* (The Didache Series - Midwest Theological Forum)

### **Religious Studies III (11<sup>th</sup> Grade) (1 Credit)**

The student will receive a thorough foundation in moral values. Through the examination of Scripture, Natural Law, and Christian teaching as presented by the Catholic Church, each student will gain a deeper understanding of the moral issues that exist in the world of today. With this understanding, the student will develop skills with which to make thoughtful well-informed decisions in his/her day-to-day life, and be more prepared to face the new challenges the ever-changing world presents to the moral conscience. **Textbook used:** *Our Moral Life in Christ: A Complete Course* (The Didache Series - Midwest Theological Forum)

### **Religious Studies IV (12<sup>th</sup> Grade) (1 Credit)**

The student will focus on two major areas of Church teaching. One area contains the basic foundational teachings of the Catholic Church. A look at the interpretation of Sacred Scripture through the eyes of early Church leaders and the evolution of magisterial teachings throughout the history of the Church will be examined. The sacramental life of the Church will also be studied. **Textbook used:** *Introduction To Catholicism: A Complete Course* (The Didache Series - Midwest Theological Forum)

The second area of focus is that of the Church's teaching on Social Justice issues. Students will develop an appreciation for the wealth of teaching contained in the writings of the Popes and Church documents on issues that affect each one of them in living in a global society. Students will first come to an understanding of the link between the dignity of man and the virtue of justice is examined. Justice and the types of justice are discussed with particular attention to areas which are pressing in the world today: prejudice and race relations, government entitlement programs, care for the poor, immigration, the value of unions, and peace understood through the prism of justice and forgiveness. The students will also debate/discuss the Just War theory and current military engagements in which the US is involved. Students will also gain a deeper understanding of environmental issues. **Primary text:** *Learning and Living Justice: Catholic Social Teaching*, Michael Pennock (Ave Maria Press) 2007

### **Christian Leadership (MAC Team) (1 Credit)**

This course is a senior elective course by invitation. Menard Apostles for Christ (MAC) is a course geared around service to the students of Holy Savior Menard through active prayer, witness, and other forms of ministry. The student, through a grounding in the presence of Jesus in the Holy Eucharist, will grow in self-discovery, Christian sacrifice for others, and the joy that comes through being Christ for one another. The student will hear the call of Jesus to "Come and follow me," and learn how to live it out in his/her daily life through active service and peer mentorship.

### **Philosophy Honors (1 Credit)**

This course will allow the student to enter the world of the philosopher and the concerns of philosophy. The student will be exposed to methods of critical thinking and basic logic, as well as view the major movements and figures of western philosophy. This study will allow the student to develop a greater appreciation for world-views throughout history and help each to appreciate the values of thought in their daily life. **Textbook used:** *Questions that Matter: An Invitation to Philosophy* (McGraw-Hill)

## **SCIENCE DEPARTMENT**

### **Physical Science (1 Credit)**

This course includes a general study of the principles of basic chemistry and physics. Topics include physical and chemical changes, classification of elements, atoms and bonding, motion, machines, and energy.

### **Physical Science Honors (1 Credit)**

This course is a general study of the principles of basic chemistry and physics with a greater emphasis on the mathematical approach. Topics include physical and chemical changes, classification of elements, atoms and bonding, motion, machines, and energy. **Prerequisites:** No grade lower than a B in previous science or math course and qualifying standardized test scores. **Corequisite:** Enrollment in Algebra I Honors or special permission from instructor.

### **Biology I (1 Credit)**

Biology I concentrates on the principles of cell structure and biochemistry, comparative anatomy, and the principles of vertebrates and invertebrates, botany and human biology. Required for all students. **Prerequisite:** Physical Science

### **Biology I Honors (1 Credit)**

Biology I Honors is an in-depth study of the topics outlined above for the highly motivated and scientifically-oriented student. **Prerequisites:** No grade lower than a B in previous science courses and qualifying standardized test score

### **Biology II (1 Credit)**

Biology II is designed for students that are interested in the study of living things, but have not taken honors courses in previous science classes. The course includes a study of molecular biology, classification, and comparative anatomy. **Prerequisites:** Students must have taken and **passed** Physical Science, Biology I and Chemistry I.

### **AP Biology II (1 Credit)**

This course is designed to meet the needs of the advanced student. Along with an in-depth study of cellular biology and chemistry, classification and phylogeny are also covered. Even though chemistry is not required as a prerequisite, it is recommended that a student will have taken or will be concurrently enrolled in chemistry. **Prerequisites:** No grade lower than a B in Physical Science and Biology, qualifying standardized test scores, and teacher approval. **May not be taken concurrently with Anatomy and Physiology.**

### **Chemistry I (1 Credit)**

Chemistry I is a basic course emphasizing concepts regarding matter, changes in the structure of matter and energy, and calculations based on chemical reactions. **Prerequisites:** Physical Science, Biology, and Algebra I

### **Chemistry I Honors (1 Credit)**

Chemistry Honors is a basic course as outlined above that is enriched and supplemented for the more scientifically oriented and motivated student. **Prerequisites:** Biology I, qualifying standardized test scores, and no grades lower than a B in previous sciences

### **Chemistry II Honors (1 Credit)**

The Chemistry II course is designed to enrich and enhance the study of basic chemistry. Building on the topics studied in Chemistry I, it introduces the student to reaction rates, equilibrium, electrochemistry, pH calculations, and organic chemistry. This course is designed to meet the needs of self-motivated students who will be entering the medical profession or the sciences and are capable of working independently. **Prerequisites:** Completion of Chemistry I and Algebra II with at least a B or teacher approval.

### **Environmental Science (1 Credit)**

This course is designed to introduce students to major ecological concepts and the environmental problems that affect the world in which we live. The course is an overview of topics and disciplines necessary for understanding environmental issues and challenges of the world today. Topics include the biological and chemical principles that relate to current environmental issues (global warming, endangered species, acid rain, invasive plants and animals), conservation, energy flow, nutrient cycling, and scientific analysis and solutions to environmental problems. Students also gain knowledge of technological career opportunities. **Prerequisite:** Junior or senior standing

### **Anatomy and Physiology Honors (1 Credit)**

This course utilizes a systems approach to examine the structure and function of the human body. It introduces students to concepts such as basic cell biology, biochemistry, cellular physiology, and tissue structure and function. The course is designed for the student considering a medical related career. **Prerequisites:** No grade lower than a B in Biology I and Chemistry I (or currently enrolled), and qualifying standardized test scores, or teacher approval

### **Physics (1 Credit)**

This is a course in classical physics. Students will find both conceptual and mathematical solutions to questions in order to develop a solid foundation in the principles of physics. Topics covered will include kinematics, force, work and power, energy, waves, sound and light, and mirrors and lenses. **Prerequisite:** Completion of/or concurrent enrollment in Advanced Math: Precalculus.

### **Physics Honors (1 Credit)**

This is a course in classical physics. Students will find both conceptual and mathematical solutions to questions in order to develop a solid foundation in the principles of physics. Topics covered will include kinematics, force, work and power, energy, waves, sound and light, mirrors and lenses, and electricity. Topics will be covered in more depth and using more advanced mathematics than in Physics. Completion of a science fair project is a requirement for this course. **Prerequisite:** Completion of/or concurrent enrollment in Advanced Math: Precalculus, Chemistry I grade no lower than a B, and qualifying standardized test scores, or teacher approval

## **SOCIAL SCIENCES DEPARTMENT**

### **Civics (1 Credit)**

This is a general study of government, good citizenship and the duties and responsibilities of a good citizen. The course incorporates the foundations of the American governmental system, citizenship and civil rights, as well as the political history of American democracy. Also included is a study of the three major economic systems: communism, socialism, and capitalism. Studied in detail are the major components of capitalism: management, labor, industry, finance, and banking.

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### **U.S. History (1 Credit)**

This is a study of the social, political, and economic history of the United States and the military struggles that have forged the United States into a great nation.

### **U.S. History Honors (1 Credit)**

This is an in-depth study of American History from exploration to the present, with an emphasis on the Twentieth century. Students are expected to do extra outside reading and research in this documentary based course. **Prerequisites:** Qualifying standardized test scores and previous social studies grades (no grade lower than a B)

### **World History (1 Credit)**

This course emphasizes history from the earliest river valley civilization to the molding of the modern nations of the world. This covers the history of humankind and the many factors which have influenced its development.

### **World History Honors (1 Credit) (Dual enrollment through LaTech-History 101/102 - 6 College Credits)**

This course surveys the history of humankind from pre-human hominid to contemporary world events. Emphasis is on connections between historical affairs, especially the influence of twentieth century events on current world situations. Students are expected to do extra outside reading and research in this documentary based course.

**HIST 101:** A survey of civilization of the world to 1500. Major emphasis on Western Civilization.

**HIST 102:** A survey of civilization of the world since 1500. Major emphasis on Western Civilizations.

**Prerequisites:** ACT composite score of 22 or PLAN composite score of at least 20, and previous social studies grades (no grade lower than a B)

### **World Geography (1 Credit)**

This is a study of the political divisions and cultural regions of the earth. It will include the study of major land forms and map skills. Students will also be exposed to environmental issues. All regions of the world will be touched upon, especially those that have undergone change in the last two decades.

### **World Geography Honors (1 Credit)**

This study of the political divisions and cultural regions of the earth will include the study of major land forms and map skills. Students will also be exposed to environmental issues. All regions of the world will be studied, especially those that have undergone change in the last two decades. **Prerequisites:** Qualifying standardized test scores and previous social studies grades (no grade lower than a B)

### **Economics (1 Credit)**

This course is an introduction to the study of Economics rooted primarily in the Free Enterprise System. Students will not only discuss the role of business, the government, and financial institutions in the American economy, but will also discuss international economics and the role of the United States in the global economy. **Prerequisite:** Junior or senior standing

### **Law Studies (1 Credit)**

This is a study of the history, organization, and function of the various local, state, and federal agencies that make up the criminal justice system. This study will be structured around the three major components of the criminal justice system: police, courts, and corrections. This course will also examine the philosophy of the criminal justice system as well as the psychology of the criminals and victims that make up the criminal justice system. Topics include: community policing, judicial process, corrections, probation/parole, juvenile justice, constitutional law, criminal investigation, forensic investigation, and private justice. **Prerequisite:** Junior or senior standing

### **Psychology (1 Credit) (Dual enrollment through LaTech-PSYC 102 - 3 College Credits)**

This course is an introduction to the field of psychology. Basic knowledge about the science of mind and behavior are covered. The various topics included are the history of psychology, biological foundations of behavior, sensation and perception, cognition, learning and memory, developmental psychology, motivation and emotion, gender identity, personality theories and assessment, abnormal behavior, and social psychology. **Prerequisite:** Junior or senior standing

**Sociology (1 Credit)**

Sociology is the study of group behavior in society and the social forces that affect that behavior. After an introduction to the sociological perspective, this course will examine four basic themes: culture and socialization; social organization and social inequality; deviance/conformity and social institutions; and social change over time. Through the study of sociology, students will better understand their place not only in today's society, but in tomorrow's world as well. **Prerequisite:** Junior or senior standing

**PHYSICAL EDUCATION AND HEALTH DEPARTMENT****Health And Physical Education I, II, III, IV**

This course may be taken by students in the 9<sup>th</sup> through 12<sup>th</sup> grades. It consists of basic skills in team sports, physical fitness and health education. CPR is also taught. Lifetime physical activities will also be covered. Courses will be designed to fit the individual student's ability.