

MICHIGAN MATHEMATICS PRIZE COMPETITION

The Michigan Section of the Mathematical Association of America, Michigan Colleges and Universities, Professional Organizations and Industries sponsors this test. Given in October, this test is designed to screen candidates for **mathematical** scholarships. Only those students who have studied advanced mathematics should consider taking the test. Students may wish to take the test in both their junior and senior year. Students may register with their mathematics teacher during the first three weeks of school. FEE: small fee. Test Date: Early October

ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB)

A multi-aptitude test battery. The ASVAB helps students identify their different abilities. It matches interests, abilities, and preferences with occupations. Student scores can qualify him or her for certain jobs and training in the Armed Forces.

CURRICULUM & COURSE DESCRIPTIONS

Specific courses offered each year are based on student interest and teacher availability.

ART DEPARTMENT

BEGINNING DRAWING/2D ART

Grade: 9, 10, 11, 12

Prerequisite: None

This is the basic entry level art class, in which students learn the basic elements (line, shape, form, space, light, color, value, and texture) and principles (balance, rhythm, movement, proportion, emphasis, pattern, unity and variety) of design. Students will experience the various mediums of pencil, charcoal, pastels, oil pastels, colored pencil, pen & ink, collage and watercolor, with drawing projects designed to challenge their progress. Students will study art and artists historically and currently, and be able to identify the different periods and styles of art by finding clues in the work and by writing informed responses to problems presented in class.

INTERMEDIATE DRAWING/2D ART

Grade: 9, 10, 11,12

Prerequisite: Beginning Drawing/2D Art, with a C+ or better

A continuation of the use of basic information to successfully complete more complex projects based on previously learned elements and principles of design. Block printing and/or other printmaking techniques will be taught, as well as American architecture and human anatomy. Students will research the information they need, do the assigned project(s) and write responses/critiques on the finished creations.

ADVANCED DRAWING 2D ART

Grade: 11, 12

Prerequisite: Beginning and Intermediate Drawing/2D Art, with a C+ or better

Students will be given creative problems to solve and will collaborate with the teacher and fellow classmates to find the best solution, format, media, etc. Other printmaking techniques will be taught and utilized along with retaining all previously learned elements and principles of design. For the serious art student.

BEGINNING 3D DESIGN

Grade: 9, 10, 11, 12

Prerequisite: None

This is an entry level 3-dimensional class in which students learn the use and handling of various materials and tools to create interesting works of art that are viewed from all sides – they have height, width, and depth. They will also learn the elements and principles of design as they apply to 3-dimensional creations. Students may learn the mediums of clay, handmade paper/books, mat board, plaster, and wood, based on historical and current information, as well as the use of various hand and power tools. Written evaluations/critiques are also required.

INTERMEDIATE 3D DESIGN

Grade: 10, 11, 12

Prerequisite: Beginning 3D Design, with a C+ or better

A continuation of the basic skills learned in the beginning class, with the addition of glass and architecture projects and whatever they were not able to cover in that class.

ADVANCED 3D DESIGN

Grade: 11, 12

Prerequisite: Beginning and Intermediate 3D Design, with a C+ or better

Selected areas of previously learned information and long term projects to do further and more in-depth work in, along with historical and written work. For the serious art student.

FIBERS

Grade: 10, 11, 12

Prerequisite: Beginning and Intermediate Drawing/2D and Beginning & Intermediate 3D Design. Serious art students only – teacher approval.

This course explores the many definitions of fiber art, including papermaking, bookbinding, basketry, surface design on fabric and paper, on- and off-loom weaving, dyeing, felting, and the use of non-traditional materials to make simple, intricate, or multimedia constructions, installations, wall art and hand weaving. Fibers is neither completely two dimensional or three dimensional, but is an ancient craft that has recently regained popularity again. Written critiques and research will be required.

PHOTOGRAPHY

Grade: 11, 12

Prerequisite: None

Students will study the art of photography with emphasis on history of photography along with composition and the elements and principles of design. The students will study how the camera works, lenses, filters, ISO, lighting and so forth. The student will work with rhythm and movement, stills and portraits. Computers and the internet will be used along with PowerPoint, Moviemaker and Photo Shop. Many photo opportunities will be explored. Written critiques and research will be required. Students will visit museums, galleries and zoos when possible, along with photo books, slides and reproduction for examples that will enhance the photo experience

AP STUDIO ART 2D DESIGN

Grade: 11, 12

Prerequisite: 2 yrs. Of Art, Dept. approval & a portfolio of 10 works

AP Art is based on the premise that college level materials can and will be taught successfully to secondary school students. Students will prepare for the AP Studio Art exam evaluation, as well as scholarship opportunities. This class will be working with creative as well as systematic investigation of formal and conceptual issues. Emphasis will be on making art as an ongoing process that involves the student in informed and critical decision-making. You will develop technical skills and become familiar with the function of the visual elements. Students will visit museums and galleries when possible, along with art books, slides, and reproductions, to provide important examples for the serious study of art. Such references are invaluable in expanding student awareness of visual traditions, cultural, historical, and stylistic ones as well.

PAINTING

Grade: 9, 10, 11, 12

Prerequisite: Beginning 2D Art, with at least a C+ or better

Students will review the elements and principles of design and the use, handling and properties of the various paints, then do a project based on color theory in tempera paint; use the techniques of watercolor in a landscape and in an abstract piece; do a study on a painter of choice whose style will be used to create an oil painting; and learn the characteristics of acrylic paint to do a unique piece of student-designed artwork. Time permitting, extra projects may be assigned in one of the paints or combined with other materials, such as collage or encaustics.

CAREER AND TECHNICAL PREPARATION DEPARTMENT **BUSINESS, MANAGEMENT, MARKETING AND TECHNOLOGY**

WORD/POWERPOINT

Grade: 9, 10, 11, 12

Prerequisite: None

Students will gain an understanding of Microsoft Office Word and PowerPoint in this course. Navigation of the keyboard, beginning and intermediate Microsoft Word and Microsoft PowerPoint lessons will be covered throughout this one-trimester course. Topics include business documents (letters and memos) and presentations (for school and business). Students successfully completing this course will earn one computer credit. Students will also have an opportunity to earn ten (10) hours of online requirement, and one visual arts credit.

EXCEL/PUBLISHER

Grade: 9, 10, 11, 12

Prerequisite: None

In this one-trimester course, students will learn how to use the spreadsheet software, Excel and the publications software Publisher. Students will learn how to manage workbooks, navigate in worksheets, and enter, edit and format numbers in Excel. Students will learn how to design, create, and produce promotional and business documents using Publisher (business cards, CD cover, bookmark). Integration of word processing and Internet activities will be used. Communication skills, career research and development will also be integrated into the class.

ACCOUNTING A & B

Grade: 10, 11, 12

Prerequisite: None

Accounting is a two-trimester course designed to introduce students to the basic principles of accounting. Throughout the course, students will apply accounting knowledge using computer-based and handwritten exercises. The course challenges the student with its use of college-level accounting skills. Students will learn how to set up a sole proprietorship and financially manage a business. Students will also focus on accounting for a merchandising business organized as a corporation. (*Senior Math*)

ADVANCED ACCOUNTING

Grade: 11, 12

Prerequisite: Accounting

Advanced Accounting is a continuation of Accounting. With a quick review of Accounting, students will complete advanced accounting procedures for partnerships. Students will work more in-depth with computerized accounting procedures. (*Senior Math*)

BASIC WEB DESIGN A

Grade: 9, 10, 11, 12

Prerequisite: None

Students will how to write HTML code to generate web sites using Notepad along with a basic understanding of Cascading Style Sheets. After mastering basic html, students will transition to using Adobe Dreamweaver, a web editor, to create their web pages. Emphasis will also be placed on learning graphic design skills using programs such as Adobe Fireworks and

Photoshop. The trimester will end with a comprehensive web site project which will encompass the skills and strategies obtained throughout the course.

BASIC WEB DESIGN B

Grade: 9, 10, 11, 12

Prerequisite: None

Students will utilize Adobe Dreamweaver along with their working knowledge of HTML and CSS to create dynamic web content. New techniques in Adobe Fireworks will be learned to enhance student's web development skills. Adobe Flash, an animation program, will also be introduced. Flash provides students the ability to create interactive web sites or stand-alone advertisements. Finally, Wordpress, a web content management system, will be used by students to create a theme based blogging page(s).

ADVANCED WEB DESIGN

Grade: 11, 12

Prerequisite: Basic Web Design

Advanced Web Design allows students to continue the methods and strategies learned in Basic Web Design. The beginning of the term will focus on reviewing html, CSS, Javascript, Dreamweaver, Fireworks, and the Flash skills acquired in Basic Web Design. After reviewing and mastering prior skills, students will begin to explore deeper in to the web building programs and languages to create more dynamic and interactive web content. A majority of the curriculum requires learning program skills and applying within a project.

BUSINESS LAW

Grade: 10, 11, 12

Prerequisite: None

Business Law is a course covering the principles of law relating largely to business transactions. The objective is to develop a well-informed person who will understand more clearly the personal duties and obligations in business situations and will watch for pitfalls and mistakes. Units included are: "You and the Law", "Law for Special Groups", "Contracts" and "Working for others."

CAREERS EXPLORATION

Grade: 9

Prerequisite: None

Career Exploration is an introduction and exploration into different careers and career pathways for ninth graders. Students will examine their individual career interests. Different career pathways will be explored through the use of Career Cruising. Emphasis will also be placed on basic career preparation skills such as job applications, interviewing, cover letters, resume building, and computer literacy. Guest speakers visit to discuss career areas and give college and career advice.

CAREERS

Grade: 10, 11, 12

Prerequisite: None

Careers class is a one-trimester course designed to provide 10-12 grade students with skills that will help them decide their future career path. Through a variety of projects and activities, students will have the opportunity to assess their own personal skills/traits/interests/abilities and how that relates to their career interests. Students will create a resume and learn some job interviewing skills. An emphasis on college research and life after high school are studied. Careers students have an opportunity to participate in Job Shadow Day.

ENTREPRENEURSHIP

Grade: 11, 12

Prerequisite: None

This one-trimester course will explore the world of entrepreneur, one who owns, operates, and takes the risk of a business venture. Simulations and community studies of entrepreneurs are strong characteristics of the class. Students will engage in a variety of situations that allows them to put a creative mind to the task and start something new. Students will learn how to create a business plan, choose specific locations and understand why, market the business, control financing, and much more. The class will engage in a real-life business designed to apply functions previously learned.

DIGITAL MEDIA (Must take A before B)

Grade: 10, 11, 12

Prerequisite: None

Digital Media is a course where students will learn about digital video and media creations. Students will complete projects for a wide array of media publications and video productions. Video production includes learning how to use video cameras, editing video, creating windows movie videos, etc. Projects for video productions may include: taping events (sports, plays, concerts, etc.), promotional spots, interviews, school news, etc.

INTRODUCTION TO MARKETING

Grade: 9

Prerequisite: None

Students will learn basic concepts relating to business and marketing. Some of the topics include business and technology role in society, customer relationships, and professional presentations. This class is required for 9th grade students to take Marketing I. DECA opportunities.

MARKETING I

Grade: 9, 10, 11, 12

Prerequisite: None

Students will be exposed to basic marketing concepts in this two-trimester course. The first trimester focuses on the building blocks of successful marketing strategies including product development and consumer behavior. During the second trimester of this course, students will study business math/pricing and promotion, all while creating marketing documents

using Microsoft Excel and Publisher. Students will also have the opportunity for a brief introduction to the school store and to join the student organization, DECA, where they can compete in state and national competitions.

MARKETING II (A/B/C)

Grade: 11, 12

Prerequisite: None

In this three-trimester course, students will split time between the Viking Store and classroom. The course is designed to connect marketing concepts taught in the classroom with real-life retail operations. Students will get an in-depth look into marketing curriculum including the business economy, selling, customer service, e-commerce, promotion, and entrepreneurial projects. Training for careers in sports, entertainment, hospitality, restaurants, and tourism is a large part of the class and DECA component. DECA is a student organization in which students can join and participate in district, state, and national competitions.

MARKETING CO-OP CLASS (A/B/C)

Grade: 11, 12

Prerequisite: None

Marketing Co-op is a one-year course that explores Marketing Functions and Foundations (Advertising, Promotion, Selling, Business Management). An emphasis will be placed on Human Relations Skills and Communication. Students will actively participate in group discussions, projects, and presentations. Entrepreneurship and Sports/Entertainment Marketing will also be introduced. Computer Technology will be a major portion of the class (spreadsheets, word processing, database, Internet). Students must be employed in the Marketing field to be in Marketing. Students receive additional credits for the job so it is a class requirement.

MARKETING CO-OP JOB

Grade: 11, 12

Prerequisite: To be taken with Marketing Co-op Class

This is the job portion of credits that are available to juniors and seniors, along with the required Marketing Co-op class. Students earn credits in their marketing jobs with local employers.

PERSONAL COMPUTER INFORMATION SYSTEMS

Grade: 9, 10, 11, 12

Prerequisite: None

This class is designed specifically for those students seeking the very basic understanding of computer software. Students will learn the basic touch-type method on the keyboard, with an emphasis on accuracy and speed. The class will also touch upon Microsoft Word and Excel, teaching basic knowledge of documents, spreadsheets, and graphic design.

PERSONAL FINANCE

Grade: 10, 11, 12

Prerequisite: None

In this course, students will be exposed to strategies for money management. The first trimester of the class focuses on earning money, paying taxes and budgeting finances. The second portion of class gives students an insight to various forms of saving opportunities and credit management. Students will also learn about purchasing a car, risk management/insurance and home mortgages. (*Senior Math*)

TECHNOLOGY AND SOCIETY

Grade: 11, 12

Prerequisite: None

In this course, students will study how technology can impact change in society. Students will explore how ethics plays a role in the use of technology and determine responsible use. In studying career choices, students will discuss the influence of technology on careers and culture. Projects will include learn about new technology and software, websites and equipment. Students will be able to use technology to solve problems.

CONSTRUCTION & BUILDING MAINTENANCE

WOOD TECHNOLOGY I

Grade: 9, 10, 11, 12

Prerequisite: None

This course is for students who have an interest in woodworking and how things are constructed. Emphasis is placed on students developing a working knowledge in the many facets of woodworking. In addition to planning and developing problem solving skills, students will learn about the names and proper handling of a variety of tools, and power machinery that they will be using in class (hands-on projects). Safety, skill and accuracy will continually be stressed.

WOOD TECHNOLOGY II

Grade: 10, 11, 12

Prerequisite: Wood Technology I, or Instructor Approval

Emphasis is placed on students continuing to learn the many facets of woodworking. Students will continue to learn planning and problem solving skills. Students will be introduced to alternative materials they may use in class. Students will be allowed to develop their own hands-on project plans, as well as, projects assigned by the instructor. Safety, skill and accuracy will continually be stressed.

COMPUTER AIDED DRAFTING (CAD I)

Grade: 9, 10, 11, 12

Prerequisite: None (two-trimester class)

An interest in drafting, computers and how products are designed and produced would be advantageous. Emphasis is placed on students developing a working knowledge of Pro/Desktop software. Students will be introduced to and develop basic skills in the use of software in a context of product design and engineering.

COMPUTER AIDED DRAFTING (CAD II)

Grade: 10, 11, 12

Prerequisite: CAD I

Emphasis is placed on students developing a working knowledge of the problem-solving model. Students will work independently and in small group settings to solve problems and redesign products. They will use 3D modeling software learned in CAD I to communicate the details of their solutions.

HOME IMPROVEMENT

Grade: 9, 10, 11, 12

Prerequisite: None

This class will provide students with an opportunity to develop basic life skills in maintaining their home. Fundamental skills will include all aspects of tool and home safety, usage of basic hand and power tools, basic fundamentals of home repair and maintenance to include carpentry, electrical, plumbing, interior and exterior wall coverings, roofs, painting, home energy saving, home environment considerations, heating and cooling, and doors and windows, as well as related careers associated with this class.

ENGLISH DEPARTMENT

GENERAL ENGLISH 9

Grade: 9

Prerequisite: None

General English 9 incorporates all content expectations of the Common Core Curriculum and State of Michigan Standards. It is designed to provide supplemental instruction for students who experience difficulty in an English curriculum.

ENGLISH 9

Grade: 9

Prerequisite: None

English 9 incorporates all content expectations of the Common Core Curriculum and State of Michigan Standards. It is designed for students who are grade competent in an English curriculum. English 9 may vary in pace, while including literature and writing exposure with college entry readiness.

ENGLISH 9 HONORS

Grade: 9

Prerequisite: Successful Completion of English 8, 9th Grade or above reading level

This course is designed for students who are reading at or above 9th grade level. It strives to improve listening skills, increase vocabulary, grammar usage and mechanics, strengthen writing skills, and develop literary appreciation.

GENERAL ENGLISH 10

Grade: 10

Prerequisite: Successful completion of English 9

Building on English 9, General English 10 incorporates all content expectations of the Common Core Curriculum and State of Michigan Standards. It is designed to expand the student's experiences in reading, writing, speaking, and listening with progressively more challenging materials and activities. This class is suited to students who are still challenged by the English curriculum. Writing is focused on basic elements of a strong essay and persuasive writing.

ENGLISH 10

Grade: 10

Prerequisite: Successful completion of English 9

Building on English 9, English 10 incorporates all content expectations of the Common Core Curriculum and State of Michigan Standards. It is designed to expand the student's experience in reading, writing, speaking and listening with progressively more challenging materials and activities. English 10 may vary in pace, while including the literature and writing exposure consistent with college entry readiness. Writing exposure is focused on moving beyond the five paragraph essay with a persuasive emphasis.

HONORS ENGLISH 10

Grade: 10

Prerequisite: Successful completion of English 9

Building on English 9, English 10 is designed to expand the student's experiences in reading, writing, speaking, and listening with progressively more challenging materials and activities. While each class may vary in pace and depth, it is expected that all students will participate in the suggested activities at a pace suitable to their ability. This class differs from English 10 in that the pace is accelerated. Writing exposure is focused on moving beyond the five paragraph essay with a persuasive emphasis and more independent writing activities.

GENERAL ENGLISH 11

Grade: 11

Prerequisite: Successful completion of English 10

Basic English 11 incorporates all content expectations of the Common Core Curriculum and State of Michigan Standards. Building on General English 10, this is an American Literature class designed to expand the student's experiences in reading, writing, and listening with progressively more challenging materials and activities. This class is designed to provide supplemental instruction to students who still feel English is an area of weakness for them. Students also work on grammar, reading comprehension and writing skills to better prepare for the ACT and MME.

ENGLISH 11

Grade: 11

Prerequisite: Successful completion of English 10

English 11 incorporates all content expectations of the Common Core Curriculum and State of Michigan Standards. English 11 is an American Literature and Composition class that examines selections in all genres by major American writers from the Colonial period to the present. The course traces historical, regional and ethnic influences with such recurring themes as the American Dream and the American Promise as they shape the literary vision of our nation. Written work, most of which interprets, analyzes and/or evaluates literary selections, includes essay tests, impromptu critiques and the year-end literary project. English 11 includes literature and writing exposure consistent with college entry readiness. Students also work on grammar, reading comprehension and writing skills to better prepare for the ACT and MME.

HONORS ENGLISH 11

Grade: 11

Prerequisite: Successful completion of English 10

Pre-AP English is an American literature course that examines selections in all genres by major American writers from the Colonial period to the present, centering around the theme of transformational thinking. It engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience, expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. These students transition to analysis during the second part in order to prepare for Advanced Placement English Literature. Students also work on grammar, reading comprehension and writing skills to better prepare for the ACT and MME.

ADVANCED PLACEMENT ENGLISH

English Language and Composition/English Literature and Composition

Grade: 12

Prerequisite: Honors English 11 & Department Approval

As a yearlong class, AP English prepares the students for the Language and Composition test. The emphasis includes AP Composition and the close analysis of complex literary texts, poetry, and non-fiction pieces joined in a thematic nature. Students begin the course with an intensive six week "Boot Camp" which allows the instructor to closely examine their writing ability through weekly short analysis essays based on increasingly complex short stories. Part of the emphasis of the course is on the writing process and includes writing refinements such as concise expression, complicated mechanics, essay, and structure. In addition, students learn MLA style citation, which is necessary for source documentation in college writing. Entering students are expected to know the rudiments of the writing process, the review of which is the beginning point of class. From there, students progress to the writing of different types of essays and the exploration of organization, development and style. It is an elective credit.

GENERAL ENGLISH 12

Grade: 12

Prerequisite: Successful completion of English 11

Students will be reading material from Old English and Medieval Periods to Postmodern and beyond. There is a great deal of historical content relevant to the reading material and the textbook is aligned with the Common Core Standards.

ENGLISH 12 HONORS

Grade: 12

Prerequisite: Successful completion of English 11

Students will be reading material from Old English and Medieval Periods to Postmodern and beyond. There is a great deal of historical content relevant to the reading material and the textbook is aligned with the Common Core Standards.

BASIC SPEECH

Grades: 10, 11, 12

Prerequisite: None

Speech communication is both theory and skill based. Students will study speech communication theories in intrapersonal, interpersonal, nonverbal, small group, and mass communication. Students will deliver a variety of informational, persuasive, and interpretive speeches. Research projects may include first amendment issues, communication-based careers, and media and propaganda.

CREATIVE WRITING

Grade: 9, 10, 11, 12

Prerequisite: None

Creative Writing offers students the chance to learn or advance their skills and appreciation in such forms as the short story, the vignette essay and various types of poetry. Techniques such as creating characters, writing dialogue, creating atmosphere and plot progression will be studied and practiced. Individuals should plan on experimenting with each of these forms during the semester. It is an elective credit.

POETRY APPRECIATION 9-10

Grade: 9, 10

Prerequisite: None

Students will read, write, analyze, and discuss grade appropriate poetry from past and modern authors. Students will recite poetry, create hands-on projects, research poets, and write essays about the poems and the authors from various time periods. This is an elective course.

POETRY APPRECIATION 11-12

Grade: 11, 12

Prerequisite: None

Students will read, write, analyze, and discuss grade appropriate poetry from past and modern authors. Students will recite poetry, create hands-on projects, research poets, and write essays about the poems and the authors from various time periods. This is an elective course.

GENERAL COLLEGE WRITING

Grade: 12

Prerequisite: None

Students are exposed to a variety of writing types with the focus on process writing, annotated bibliography, and MLA formatting. A portfolio is created, edited, and handed in at the end of the course as a final project. This course is designed for the college bound student looking to improve their writing skills and strengthen their current writing skills to be better prepared for their freshman college writing course experience.

HONORS COLLEGE WRITING

Grade: 12

Students are exposed to a variety of writing types with the focus on process writing, annotated bibliography, and MLA formatting. A portfolio is created, edited, and handed in at the end of the course as a final project. This course is designed for the college bound student looking to improve their writing skills and strengthen their current writing skills to be better prepared for their freshman college writing course experience.

Prerequisite: None

HUMANITIES/ANCIENT

HUMANITIES/EARLY MODERN

HUMANITIES/MODERN

Grade: 11, 12

Prerequisite: None

Humanities offer students the opportunity to study Western Civilization from its earliest beginnings in Ancient Greece to today's postmodern world. Integrating art history with literature, music, and philosophy provides students with "the big picture" and cultivates an appreciation for Western Civilization. In this course students will view art, read literature, listen to music, and discuss philosophy in order to understand the mindset of past eras and the mindset of our current world. Level 1-2 will move at a slower pace and may involve fewer concepts than level 3-4.

HUMANITIES/ANCIENT HONORS

HUMANITIES/EARLY MODERN HONORS

HUMANITIES/MODERN HONORS

Grade: 11, 12

Prerequisite: None

Humanities offers students the opportunity to study Western Civilization from its earliest beginnings in Ancient Greece to today's postmodern world. Integrating art history with literature, music, and philosophy provides students with "the big picture" and cultivates an appreciation for Western Civilization. In this course students will view art, read literature, listen to music, and discuss philosophy in order to understand the mindset of past eras and the mindset of our current world.

JOURNALISM/LITERATURE

Grade: 9, 10

Prerequisite: None

This class is designed for students interested in writing for the newspaper. Students will learn the ins and outs of journalistic writing and the process for writing several different types of articles, from hard news to feature stories. This is a great class for students with an interest in writing for the school newspaper, The Reflector.

MYTHOLOGY

Grade: 11, 12

Prerequisite: None

Mythology is a system of plots and stories told by a given culture. In addition to being a good story, myth has a high purpose. Myth is the distilled essence of human experience, expressed in metaphoric terms or narrative. It deals with vital mysteries that confront and challenge all of us. It is an elective credit

MYTHOLOGY II

Grade: 11, 12

Prerequisite: None

Mythology is a system of plots and stories told by a given culture. In addition to being a good story, myth has a high purpose. Myth is the distilled essence of human experience, expressed in metaphoric terms or narrative. It deals with vital mysteries that confront and challenge all of us. Focus on Norse and Celtic mythology. It is an elective credit.

NEWSPAPER

Grade: 10, 11, 12

Prerequisite: Permission of Instructor

Newspaper Publication is the class that publishes the monthly, tabloid-sized Reflector News. To be on staff, students should have successfully completed one semester of Journalistic Writing. Because of the scope of the monthly schedule of publication, this class will demand extra time from the student. Students receive elective credit in English. Newspaper Publication offers a high level of freedom in attaining whatever level of individual involvement and excellence is desired. The greatest personal growth, however, comes from mastering required skills in communication and the various kinds of scholastic journalism, developing graphic skills, placing personal convictions in review, and building mature work habits through acceptance of responsibility.

HONORS SHAKESPEARE

Grade: 11, 12

Prerequisite: Successful completion of English 10 and English 11

Shakespeare examines plays by William Shakespeare, as well as his life and times, helping students both to enjoy the world's most popular playwright and to understand why he is regarded as such. Activities include reading and role-playing tragedies, comedies and histories as well as viewing live and recorded performances. Analytical discussions, compositions and essay tests accompany each reading.

YEARBOOK

Grade: 10, 11, and 12

Prerequisite: Approval of Advisor

Yearbook is a laboratory course in journalism and photography, with a touch of business management thrown in. Class members will photograph, write about, edit, and otherwise prepare the history of the current school year for publication. Students have the opportunity to demonstrate outstanding photographic, literary, and artistic talents in the production of the current volume. This course will satisfy the Fine Arts requirement for graduation; it will NOT serve as a substitute for any required English class.

NOVELS 9

Grade: 9

Prerequisite: None

The student will have the opportunity to read independent novels of their choosing and class novels. Students will examine elements of the novel such as characters, plot, setting, and conflict. Writing assignments, class discussions, and independent projects will assess the students understanding of the reading material. Students will receive assistance with choosing appropriate high interest grade level material in addition to reading class novels.

NOVELS 10-12

Grade: 10, 11, 12

Prerequisite: None

The student will have the opportunity to read independent novels of their choosing and class novels. Students will examine elements of the novel such as characters, plot, setting, and conflict. Writing assignments, class discussions, and independent projects will assess the students understanding of the reading material. Students will receive assistance with choosing appropriate high interest grade level material in addition to reading class novels.

WORLD LANGUAGES DEPARTMENT

FRENCH I A

Grade: 7, 8, 9, 10, 11, 12

Prerequisite: None, but a GPA of a C or higher is recommended.

This course provides an introduction to French language and culture. Students will develop a proficiency in all four of the skill areas, listening, speaking, reading and writing, commensurate with their level. Student outcomes include, demonstrating communicative competency in using the present and near future tense of the regular –er verbs and the irregular verbs avoir and être; negation of verbs; common adverbial phrases; possessive and descriptive adjectives. Basic vocabulary study includes the following: numbers, family, class objects, pets, time, likes & dislikes; common activities. Cultural study includes the following: The 24 hour clock; French-speaking countries of the World; school life; family structure; Geography of North Central France. The course is student centered, giving the students the opportunity to use the language in both interpersonal and presentational contexts.

FRENCH I B

Grade: 8, 9, 10, 11, 12

Prerequisite: Passing grade in French 1A

This course continues the introduction to French language and culture. Students will continue to develop a proficiency in all four of the skill areas, listening, speaking, reading and writing, commensurate with their level. Student outcomes include, demonstrating communicative competency in using the present and near future tense of the irregular verbs aller, faire, boire, prendre, mettre, vouloir and common reflexive verbs; the recent past; and question formation. Basic vocabulary study includes the following: sports & hobbies; places in town, weather expressions days of the week, months of the year; foods; rooms of the house; household chores; and clothing. Cultural study includes the following: Teenage pastimes; organized sports; use of the metric system for weather & clothing; Northern vs. Southern Hemispheres; restaurant ordering & etiquette; Geography of Southwestern France & French-speaking Africa. The course is student centered, giving the students the opportunity to use the language in both interpersonal and presentational contexts.

FRENCH II A

Grade: 9, 10, 11, 12

Prerequisite: Passing grades in both French 1A and French 1B

This course reviews the grammatical structures, verbs and vocabulary learned in French 1A and French 1B. New student outcomes include demonstrating proficiency in using the present tense of regular and irregular –ir verbs; regular and irregular –re verbs; passé composé of all regular verb groups. More complex vocabulary study includes: personality traits; professions; nationality; school locations; city locations; personal care items; celebrations & holidays; fruits & vegetables; cooking & restaurants. Cultural themes from the first level are expanded in a correlative context. Audio-lingual competencies are further developed and reinforced with reading, listening, speaking and writing activities.

FRENCH II B

Grade: 9, 10, 11, 12

Prerequisite: Passing grade in French 2A

This course continues the grammatical structures, verbs and vocabulary studied in French 2A. New student outcomes include demonstrating proficiency in using the imperfect, future and conditional tenses of regular and irregular –ir verbs; contrasting the usage of the passé composé and the imperfect tenses; comparative and superlative structures;. More complex vocabulary study includes: country life vs. city life; farm animals; childhood activities; camping and nature; wild animals; parts of the body & health; technology. Cultural themes from the first level are expanded in a correlative context. Audio-lingual competencies are further developed and reinforced with reading, listening, speaking and writing activities.

FRENCH III/IV A

Grade: 10, 11, 12

Prerequisite: Passing grades in French 2A and French 2B

This course provides in-depth study of structures introduced in French 1 and French 2. Grammar structures examined are the following: the present tense and infinitive constructions; the passé composé vs. the imperfect tenses; reflexive verbs; the future tense; the conditional mood and “si” clauses. In-depth vocabulary themes include: school subjects and materials; after school activities; summertime activities; places in town and country; professions and services. Functions include: talking about likes and dislikes, future plans, frequency of activities; description of past events; making polite requests. Literature selection: Le Comte de Monte Cristo

FRENCH III/IV B

Grade: 10, 11, 12

Prerequisite: Passing grades in French 2A and French 2B

This course provides in-depth study of structures introduced in French 1 and French 2. Grammar structures examined are the following: The passé simple; relative pronouns; adjective placement; the past perfect tense; the conditional perfect; the future perfect; sequence of tenses in multi-clause sentences; the past infinitive. In-depth vocabulary themes include: fairy tales & legends; historical accounts; government conflicts. Functions include: setting the scene of a story; relating a sequence of events; talking about what someone else said/did. Literature selection: Le Petit Prince

FRENCH III/IV C

Grade: 10, 11, 12

Prerequisite: Passing grades in French 2A and French 2B

This course provides in-depth study of structures introduced in French 1 and French 2. Grammar structures examined are the following: comparative and superlative structures; the passive voice; use of prepositions; usage of quand/lorsque/dès que; present tense subjunctive forms; usage of subjunctive after conjunctions & with doubt/uncertainty. In-depth vocabulary themes include: Natural phenomena; environmental issues; the news media. Functions include: expressing caution; giving reasons; making predictions and assumptions; expressing certainty, possibility, doubt and disbelief. Literature selection: Voyage au Centre de la Terre

FRENCH III/IV D

Grade: 11, 12

Prerequisite: Passing grades in French 2A and French 2B

This course provides in-depth study of structures introduced in French 1 and French 2. Grammar structures examined are the following: Inverted questions; present participles as adjectives; demonstrative pronouns; savoir vs. connaître. In-depth vocabulary themes include: fine art genres; music; performing arts. Functions include: giving opinions; changing the subject in a conversation; making suggestions. Literature selection: Lancelot

GERMAN I A

Grade: 7, 8, 9, 10, 11, 12

Prerequisite: None, but a GPA of a C or higher is recommended.

German 1A introduces the German language and the cultures of the German speaking countries. Effective communication and confidence in using and understanding basic vocabulary and sentence structure is emphasized. The course objectives are for the students to be able to possess a broad basic vocabulary including numbers, colors, months, seasons, days of the week, family, possessive and descriptive adjectives, classroom objects, pets, time, and likes and dislikes. Students are introduced to the present tense of the verbs to have, to be, to be named, to live, to be able to, and to like. Students will formulate questions on familiar topics, use negation, and interact with some fundamental components of the German culture related to the topics stated. Students listen and speak German daily, take regular written and oral quizzes and exams, develop projects, write short sentences in the target language, and perform short dialogues for the teacher or small peer group. Literature: Fritz in Amerika

GERMAN I B

Grade: 7, 8, 9, 10, 11, 12

Prerequisite: Passing grade in German 1A

German 1B continues an introduction to the German language and the cultures of the German speaking countries. Effective communication and confidence using the language is emphasized. The course objectives are for the students to be able to converse utilizing the present tense, to possess a broad basic vocabulary including weather, sports and hobbies, places in town, rooms of the house, chores, clothing, and food. Students learn the present tense of the rest of the modals and other irregular verbs. Students will learn to talk about someone/something in the third person, and to interact with some fundamental components of the German culture related to the topics stated. Students listen and speak German daily, take regular written and oral quizzes and exams, develop projects, write short sentences in the target language, and perform short dialogues for the teacher or small peer groups. Literature: Geld oder Liebe

GERMAN II A

Grade: 8, 9, 10, 11, 12

Prerequisite: Passing grades in German 1A and German 1B

German 2A continues to present the German language and cultures of the German speaking countries. This course reviews the grammatical structures, verbs and vocabulary learned in German 1A and German 1B. The course objectives are for the students to be able to converse utilizing the present tense, recognizing and using the written and spoken forms of the past tense. Students will continue to broaden their vocabulary and use their reading and writing skills to explore contemporary life of German speaking people. Students will listen and speak German daily, take regular written and oral quizzes and exams, develop projects, write paragraphs in the target language, and perform short dialogues/oral presentations for the class. Themes covered in this course include professions, personality traits, celebrations and holidays. Literature: Oh wie schön ist

Panama

GERMAN II B

Grade: 9, 10, 11, 12

Prerequisite: Passing grade in German 2A

German 2B continues to present the German language and cultures of the German speaking countries. This course reviews the grammatical structures, verbs and vocabulary learned in German 2A. The course objectives are for the students to be able to write/converse utilizing the present tense as well as written and spoken forms of the past tense, reflexive verbs and using verbs plus infinitive. Students will continue to broaden their vocabulary and use their reading and writing skills to explore contemporary life of German speaking people. Students will listen and speak German daily, take regular written and oral quizzes and exams, develop projects, write paragraphs and stories in the target language, and perform short skits for the class. Themes covered in this course include friendship and relationships, traveling with a group, outdoor activities, lifestyles, and eating out/shopping. This course is student centered, giving the students the opportunity to use the language in both interpersonal and presentational scenarios. Literature: Grimms Märchen

GERMAN III/IV A

Grade: 10, 11, 12

Prerequisite: Passing grades in German 2A and German 2B

3/4 A is a trimester course which begins with a review of essential basic knowledge of grammar concepts and vocabulary introduced in German 1 and 2. Emphasis is on communicating in German through speaking, listening, reading, and writing in various aspects of time. Students will be introduced to a higher level vocabulary and complex grammar structures such as da/wo compounds, coordinating and subordinating conjunctions, and the dative case. Students will read articles from newspapers and magazines and different literature genres. In addition, students will watch/listen to and discuss authentic videos/podcasts. All materials in this unit will introduce students to the vocabulary and themes of contemporary daily life and family and communities. At all times, the primary focus will be to increase the students' ability to comprehend and communicate in German with ease and confidence. In this class students will listen and speak German daily, take regular written and oral quizzes and exams, develop projects, write 5 paragraph essay in the target language, and perform thorough oral presentation and Internet projects such as blogging, animoto, power point/prezi. Literature: Die Ilse ist weg

GERMAN III/IV B

Grade: 10, 11, 12

Prerequisite: Passing grades in German 2A and German 2B

German 3/4 B is a trimester course in which students are expected to converse and write about various topics in the target language. Contemporary publications, historical texts, music, and original works of literature are studied and used as the substance of classroom discussion. In addition, students will watch/listen to and discuss authentic videos/podcasts. All materials in this unit will introduce students to the vocabulary and themes of science and technology and environmental issues. Advanced grammar topics are covered including, the genitive case, and adverbial phrases, and verbs plus infinitives. Students are expected to build on their previous three years of study and begin expanding their language through emails, essays, conversations, and speeches in German. Literature: Leseprobe: Beta

GERMAN III/IV C

Grade: 10, 11, 12

Prerequisite: Passing grades in German 2A and German 2B

German 3/4C is a trimester course which begins with a review of essential basic knowledge of grammar concepts and vocabulary introduced in German 1 and 2. Emphasis is on communicating in German through speaking, listening, reading, and writing in various aspects of time. Students will be introduced to a higher level vocabulary and complex grammar such as the past perfect tense and the subjunctive II. They will be exposed to articles from newspapers and magazines, and different literature genres. In addition, students will watch/listen to and discuss authentic videos/podcasts. All materials in this unit will introduce students to the vocabulary and themes of contemporary life, specifically professions and the work training and innovation and technology in the family and on the job. At all times, the primary focus will be to increase the students' ability to comprehend and communicate in German with ease and confidence. In this class students will listen and speak German daily, take regular written and oral quizzes and exams, develop projects, write 5 paragraph essay in the target language, and perform thorough oral presentations. Literature: Leseprobe Mein Leben, die Liebe und der ganze Rest von Conni

GERMAN III/IV D

Grade: 10, 11, 12

Prerequisite: Passing grades in German 2A and German 2B

German 3/4 B or 3/4D is a trimester course in which students are expected to converse and write about various topics in the target language. Contemporary publications, historical texts, music, and original works of literature are studied and used as the substance of classroom discussion. In addition, students will watch/listen to and discuss authentic videos/podcasts. All materials in this unit will introduce students to the vocabulary and themes of multiculturalism and beauty and aesthetics. An appreciation of music, art and other cultural aspects of countries is developed and studied through the target language. Advanced grammar topics are covered, and students are expected to build on their previous three years of study and begin expanding their language through emails, essays, conversations, and speeches in German. Literature: Spaghetti für zwei, Der Panther, Der Erbkönig

AP GERMAN LANGUAGE

Grade: 11, 12

Prerequisite: Approval

This year-long AP course is designed to provide students with a learning experience equivalent to that of a third-year college course. It is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. This course will help prepare students to demonstrate their level of German proficiency across three communicative modes: Interpersonal (interactive communication), Interpretive (receptive communication), and Presentational (productive communication), and the five goal areas outlined in the Standards for Foreign Language Learning (Communication, Cultures, Connections, Comparisons, and Communities). During the course students will be exposed to authentic materials that revolve around the six AP Themes of Contemporary Life, Family and Communities, Personal and Public Identities, Beauty and Aesthetics, Globalization, and Science and Technology and will participate in practice to prepare for the test. Students enrolled in this course are encouraged to take the AP German Language and Culture Exam during third trimester.

SPANISH I A

Grade: 7, 8, 9, 10, 11, 12

Prerequisite: None, but a GPA of a C or higher is recommended.

This course provides an introduction to the language and culture of Spanish-speaking areas of the World. Students will develop a proficiency in all four of the skill areas, listening, speaking, reading and writing, commensurate with their level. Student outcomes include, demonstrating communicative competency in using the present and near future tense of the regular –ar verbs and the irregular verbs ser, estar and tener; negation of verbs; common adverbial phrases; possessive and descriptive adjectives; the use of gustar. Basic vocabulary study includes the following: numbers, family, class objects, pets, time, likes & dislikes; common activities. Cultural study includes the following: The 24 hour clock; Spanish-speaking countries of the World; school life; family structure; Geography of Costa Rica, Chile & the Dominican Republic. The course is student centered, giving the students the opportunity to use the language in both interpersonal and presentational contexts.

SPANISH 1 B

Grade: 8, 9, 10, 11, 12

Prerequisite: Passing grade in Spanish 1A

This course continues the introduction to the language and culture of Spanish-speaking areas of the World. Students will develop a proficiency in all four of the skill areas, listening, speaking, reading and writing, commensurate with their level. Student outcomes include, demonstrating communicative competency in using the present and near future tense of the regular –er & -ir verbs and the irregular verbs ir and venir; question formation; present tense of reflexive verbs. Basic vocabulary study includes the following: sports & hobbies; places in town; prepositions of place; weather; days of the week; months of the year; household chores; rooms of the house & clothing. Cultural study includes the following: Teenage activities; metric system usage; Northern vs. southern hemispheres; restaurant ordering & etiquette; geography of Puerto Rico, Argentina & Mexico. The course is student centered, giving the students the opportunity to use the language in both interpersonal and presentational contexts.

SPANISH II A

Grade: 9, 10, 11, 12

Prerequisite: Passing grades in both Spanish 1A and Spanish 1B

This course reviews the grammatical structures, verbs and vocabulary learned in Spanish 1A and Spanish 1B. New student outcomes include demonstrating proficiency in using the present tense of regular and irregular verbs; preterite tense of all regular and irregular verb groups. More complex vocabulary study includes: personality traits; professions; nationality; school locations; city locations; personal care items; celebrations & holidays; fruits & vegetables; cooking & restaurants. Cultural themes from the first level are expanded in a correlative context. Audio-lingual competencies are further developed and reinforced with reading, listening, speaking and writing activities.

SPANISH 2 B

Grade: 9, 10, 11, 12

Prerequisite: Passing grade in Spanish 2A

This course continues the grammatical structures, verbs and vocabulary studied in Spanish 2A. New student outcomes include demonstrating proficiency in using the imperfect, future and conditional tenses of regular and irregular verbs; contrasting the usage of the preterite and the imperfect tenses; comparative and superlative structures;. More complex vocabulary study includes: country life vs. city life; farm animals; childhood activities; camping and nature; wild animals; parts of the body & health; technology. Cultural themes from the first level are expanded in a correlative context. Audio-lingual competencies are further developed and reinforced with reading, listening, speaking and writing activities.

SPANISH III/IV A

Grade: 10, 11, 12

Prerequisite: Passing grades in Spanish 2A and Spanish 2B

This course provides in-depth study of structures introduced in Spanish 1 and Spanish 2. Grammar structures examined are the following: the usage of ser & estar; the preterite vs. the imperfect; the past progressive; usage of “se” and indirect object pronouns. In-depth vocabulary themes include: vacation activities; weather expressions; pastimes; sports; invitations; foods. Functions include: talking about likes and dislikes, frequency of activities; description of past events. Literature selection: El Secuestro

SPANISH III/IV B

Grade: 10, 11, 12

Prerequisite: Passing grades in Spanish 2A and Spanish 2B

This course provides in-depth study of structures introduced in Spanish 1 and Spanish 2. Grammar structures examined are the following: the comparative and superlative; negative expressions; the future tense; the conditional tense; the passive & impersonal “se”; the passive voice. In-depth vocabulary themes include: Leisure time activities; relationships & advice; apologies; art & architecture. Functions include: talking about relationships & giving advice; making apologies; talking about future plans; making polite requests. Literature selection: Don Quixote

SPANISH III/IV C

Grade: 10, 11, 12

Prerequisite: Passing grades in Spanish 2A and Spanish 2B

This course provides in-depth study of structures introduced in Spanish 1 and Spanish 2. Grammar structures examined are the following: the preterite vs. the imperfect tenses; negative expressions; using “desde” & “desde hace”. In-depth vocabulary themes include: Social activities; physical activities & sports; time expressions; vacation destinations; natural phenomena. Functions include: talking when things happen; making invitations; describing places and weather events. Literature selection: El Ojo de Agua

SPANISH III/IV D

Grade: 10, 11, 12

Prerequisite: Passing grades in Spanish 2A and Spanish 2B

This course provides in-depth study of structures introduced in Spanish 1 and Spanish 2. Grammar structures examined are the following: the present tense subjunctive forms; the use of the subjunctive after wishes, will, emotions & doubt; the present perfect subjunctive form. In-depth vocabulary themes include: chores & household equipment; medical problems. Functions include: offering & asking for help; expressing emotions & doubt;. Literature selection: El Cid

AP SPANISH

Grade: 11, 12

Prerequisite: Approval

This year-long AP course is designed to provide students with a learning experience equivalent to that of a third-year college course. It is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. This course will help prepare students to demonstrate their level of German proficiency across three communicative modes: Interpersonal (interactive communication), Interpretive (receptive communication), and Presentational (productive communication), and the five goal areas outlined in the Standards for Foreign Language Learning (Communication, Cultures, Connections, Comparisons, and Communities). During the course students will be exposed to authentic materials that revolve around the six AP Themes of Contemporary Life, Family and Communities, Personal and Public Identities, Beauty and Aesthetics, Globalization, and Science and Technology and will participate in practice to prepare for the test. Students enrolled in this course are encouraged to take the AP Spanish Language and Culture Exam during third trimester.

MATHEMATICS DEPARTMENT

ALGEBRA READINESS

Grade: 9, 10, 11, 12

Prerequisite: None

Algebra Readiness provides mathematic intervention resources and services to Algebra I students who may need extra assistance with passing their required Algebra I course. Algebra Readiness consists of two major components: 1) a diagnostic assessment designed to guide instructional decisions for students that may need intervention services and 2) targeted intervention services for students. In this course, students have the opportunity to review pre-algebraic skills, receive assistance on their Algebra I coursework, and experience rigor and remediation. This course is purposely limited in number to provide teachers flexibility and time to rebuild pre-algebraic skills and to precision with the new algebraic concepts.

ALGEBRA I

Grade: 9, 10, 11, 12

Prerequisite: None

The following course is an inquiry based learning that supports the Common Core State Standards. The course covers the following topics: Equations and Inequalities, Functions, Extensions of Linear Concepts, Exponents, Radicals, Polynomials, Quadratic Functions, and Probability and Statistics. The class also brings in the technology of the Texas Instrument Inspire calculators. The course is taught over a 3-trimester time period.

ALGEBRA I HONORS

Grade: 9, 10, 11, 12

Prerequisite: None

The following course is an inquiry based learning that supports the Common Core State Standards. The course covers the following topics: Equations and Inequalities, Functions, Extensions of Linear Concepts, Exponents, Radicals, Polynomials, Quadratic Functions, and Probability and Statistics. The class also brings in the technology of the Texas Instrument Inspire calculators. The course goes beyond the Common Core Standards, and involves a more in-depth study of Algebra I. The course is taught over a 2-trimester time period.

GEOMETRY

Grade: 9, 10, 11, 12

Prerequisite: Algebra I

The following course is an inquiry based learning that supports the Common Core State Standards. The course covers the following topics: Proofs, Parallel and Perpendicular Lines, Transformations, Triangles, and Quadrilaterals, Similarity and Trigonometry, Circles, Coordinates, and Constructions, Extending Two Dimensions to Three Dimensions, and Probability. The class also brings in the technology of the Texas Instrument Inspire calculators. The course is taught over 2-trimesters.

GEOMETRY HONORS

Grade: 9, 10, 11, 12

Prerequisite: Algebra I

The following course is an inquiry based learning that supports the Common Core State Standards. The course covers the following topics: Proofs, Parallel and Perpendicular Lines, Transformations, Triangles, and Quadrilaterals, Similarity and Trigonometry, Circles, Coordinates, and Constructions, Extending Two Dimensions to Three Dimensions, and Probability. The class also brings in the technology of the Texas Instrument Inspire calculators. The course goes beyond the Common Core Standards, and involves a more in-depth study of Geometry. The course is taught over a 2-trimester time period.

ALGEBRA II

Grade: 9, 10, 11, 12

Prerequisite: Algebra I and Geometry

The following course is an inquiry based learning that supports the Common Core State Standards. The course covers the following topics: Equations, Inequalities, and Functions, Quadratic Functions, Polynomials, Series, Exponential, and Logarithmic Functions, Radical and Rational Functions, Trigonometry, and Probability and Statistics. The class also brings in the technology of the Texas Instrument Inspire calculators. The course is taught over a 3-trimester time period.

ALGEBRA II HONORS

Grade: 9, 10, 11, 12

Prerequisite: Algebra I and Geometry

The following course is an inquiry based learning that supports the Common Core State Standards. The course covers the following topics: Equations, Inequalities, and Functions, Quadratic Functions, Polynomials, Series, Exponential, and Logarithmic Functions, Radical and Rational Functions, Trigonometry, and Probability and Statistics. The class also brings in the technology of the Texas Instrument Inspire calculators. The course goes beyond the Common Core Standards, and involves a more in-depth study of Algebra II. The course is taught over a 2-trimester time period.

PRE-CALCULUS

Grade: 11, 12

Prerequisite: Algebra 2, Instructor Approval

The course covers the following topics: Functions and Their Graphs, Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometry, Analytic Trigonometry, Addition Topics in Trigonometry, Systems of Equations and Inequalities, Matrices and Determinants, Sequences, Series, and Probability, Topics in Analytic Geometry, Analytic Geometry in Three Dimensions, and Limits and an Introduction to Calculus.

AP CALCULUS

Grade: 11, 12

Prerequisite: Pre-Calculus, Instructor Approval

The course covers the following topics: Limits and Their Properties, Differentiation, Applications of Differentiation, Integration, Logarithmic, Exponential and Others Transcendental Functions, Differential Equations, Applications with Integration, Integration Techniques, L'Hopital's Rules and Improper Integrals, Infinite Series and Conics, Parametric Equations and Polar Coordinates. The course also incorporates the technology of the Texas Instrument Inspire calculators. At the end of the course, students will have an opportunity to take the Advanced Placement Test. This course is taught over a 3-trimester period.

STATISTICS

Grade: 12

Prerequisite: Algebra II

Throughout the year, students will be exposed to four broad conceptual themes, Exploring Data, Planning A Study, Anticipating Patterns, and Statistical Inference. The course requires a "mathematical maturity" and interpretive and reasoning skills which the students may not have fostered as much in previous math courses.

AP STATISTICS

Grade: 12

Prerequisite: Algebra II

Throughout the year, students will be exposed to four broad conceptual themes, Exploring Data, Planning A Study, Anticipating Patterns, and Statistical Inference. The course requires a "mathematical maturity" and interpretive and reasoning skills which the students may not have fostered as much in previous math courses. The course goes beyond the Common Core Standards, and involves a more in-depth study of Statistics. At the end of the course, students will have an opportunity to take the Advanced Placement Test.

ESSENTIALS FOR COLLEGE MATH – BAKER COLLEGE (MTH 091)

Grade: 12

Prerequisite: None

This course examines math concepts relating to whole numbers, fractions, decimals, ratios, proportions, percents, signed numbers, order of operations, and metric conversions. In addition, basic algebraic concepts and mean, median, and mode are introduced. This course is designed as a review of concepts to prepare students for success in subsequent mathematics course. Credit earned does not count towards any degree. Successful completion of this course requires passing a comprehensive exit exam. This is a class that reviews basic math to prepare students to take a college entrance test. This is a one-semester class.

ESSENTIALS FOR COLLEGE PRE-ALGEBRA – BAKER COLLEGE (MTH 099E)

Grade: 12

Prerequisite: Baker College Essential Math or Instructor Approval

This course examines the basic elements of algebra. Included in the course are integers, rational numbers, variables, exponents, radical expressions, solving linear equations and its applications, slope-intercept form of a line, proportions, percents, and the rectangular coordinate system. Credit earned does not count toward any degree. Successful completion of this course requires passing a comprehensive exit exam. This is a class that reviews basic algebra skills to prepare students to take a college entrance test. This is a one-semester class.

INTRODUCTORY TO COLLEGE ALGEBRA – BAKER COLLEGE (MTH 111)

Grade: 12

Prerequisite: Baker College Pre-Algebra or Approval

This course introduces elements of algebra including the real numbers, linear graphing, variable expressions, linear equations, polynomial operations and factoring, systems of equations, quadratic equations, and rational functions. This credit will transfer to other colleges. This is a one-semester class.

COMPUTER APPLICATIONS I/11

Grade: 9, 10, 11, and 12

Prerequisite: None

The impact of computers on one's life. Introduction to computers, Internet and WWW and application software such as word processing, database, spreadsheet, and graphics. A more in depth look at the impact of computers on one's life. E-commerce, computers and society (home, work, ethics, security, and privacy), word processing, spreadsheet, database and presentation graphics.

COMPUTER PROGRAMMING I/II

Grade: 9, 10, 11, and 12

Prerequisite: None

Building windows using the Visual Basic (object oriented) programming language. Building an application, working with intrinsic controls, ActiveX controls, creating multiple forms, dialogs, debugging, exes, menus, data controls, and common dialogs. Building windows using the Visual Basic programming language. Menus, data controls, common dialogs, drag and drop events, complex codes, database management, reporting applications, creating ActiveX controls, and distributing applications.

DESK TOP PUBLISHING

Grade: 9,10, 11, and 12

Prerequisite: None

Develop publications that integrate text, graphics, spreadsheets, and charts. Publications include: fliers, postcards, bumper stickers, menus, newsletters, letterhead, stationary, business reports, advertisements, coupons, tickets, maps, brochures, etc. Further information, see Ms. Montre.

DIGITAL SCRAPBOOKING I

Grade: 9, 10, 11, 12

Prerequisite: None

Looks into the latest trend of creating digital memory pages. Students will learn photo editing, page layout and design techniques, digital photography and graphic creation/manipulation through the use of a variety of software programs.

DIGITAL SCRAPBOOKING II

Grade: 9, 10, 11, 12

Prerequisite: Digital Scrapbooking I

A continued look at the trend of digital scrapbooking. Students will use a variety of software packages in order to create their own backgrounds, embellishments (beads, brads, eyelets, fibers, photo corners, punches, stickers, etc.) and brushes. Students will delve further into photo editing, page layout and design techniques. Students will be introduced to the use of templates and hybrid scrapbooking.

PHOTOSHOP

Grade: 10, 11, 12

Prerequisite: Digital Scrapbooking II

A look into the trend of photo editing and animation. Students will use Photoshop in order to modify digital photos while learning how to eliminate backgrounds, insert photos into other photos, insert photos into text, replace colors/patterns/styles, retouch photos, colorize photos, load and create brushes, as well as investigate the numerous built-in filters. Furthermore, the class will create short animated movies that manipulate an object's position, opacity and style.

MUSIC DEPARTMENT

INTRODUCTION TO MUSIC TECHNOLOGY

Grade: 9, 10, 11, 12

Prerequisite: None

This is a one-trimester course designed as an introduction to music technology. Students will be involved in exploring current trends in electronic music as well as learning the basics of keyboard performance. Alfred music theory individualized instruction as well as the Bastian Adult Piano Course materials will be used.

CONCERT BAND

Grade: 9

Prerequisite: Placement by audition and/or approval of instructor

Course is designed as a remedial performance class. Group will perform literature based on experience of members. Skill driven instruction using Yamaha Standard of Excellence Band Course as well as literature and reference materials from JHS Music Library. Students may participate in extracurricular performing groups such as Pep Band and Marching Band by audition only.

CADET BAND

Grade: 9

Prerequisite: Placement by audition and/or approval of instructor

Course is designed as an introduction to music learning and performing at the high school level. Group performs repertoire appropriate to instrumentation and proficiency. Other classroom literature includes *Treasury of Scales* (L. Smith, 1952) and *Concert Selections for Winds and Percussion* (C. Azzara, 1995). All students are encouraged to participate in the M.S.B.O.A. Solo and Ensemble Festival as well as perform at M.S.B.O.A. Band Festival. The group performs at all scheduled formal concerts during the school year. Students may participate in extracurricular performing groups such as Pep Band and the Viking Marching Band.

CLASS PERCUSSION

Grade: 9, 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

Course is designed to offer instrument specific instruction to percussionists. This course is usually offered to those students who wish to build individual skills and knowledge in rudimental drumming, drum set, keyboard, timpani and other percussion instruments.

CLASS GUITAR I

Grade: 9, 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

This course is designed to offer instrument specific instruction to guitarists. The focus of this course is twofold. First, the rudiments of basic guitar technique are studied in both the melodic and harmonic musical dimensions. Second, this course maintains a focus on the creative aspects of music making. Music improvisation and composition are lifelong skills that can travel with a student throughout their entire lives. Other activities include: analysis of musicians and musical styles, music reading, music writing, and care and maintenance of the instruments.

CLASS GUITAR II and III

Grade: 10, 11, 12

Prerequisite: Pass Guitar I with a C- or better. It is also open to those students that can demonstrate the necessary skills and knowledge covered in Class Guitar.

Advanced techniques will include: slide playing, jazz chord theory, accompaniment styles, and polyphonic composition. Music improvisation and composition remain a primary focus of the course. Other activities include: advanced analysis of musicians and musical styles, advanced music reading and writing.

VARSIY BAND

Grade: 10, 11, 12

Prerequisite: Placement by audition

Course is designed as a traditional concert band performing at the M.S.B.O.A. Class C level. All students are encouraged to participate in the M.S.B.O.A. Solo and Ensemble Festival as well as perform at M.S.B.O.A. Band Festival. The group performs at all scheduled formal concerts during the school year. Students may participate in extracurricular performing groups such as Pep Band or the Viking Marching Band.

VARSIY WIND ENSEMBLE

Grade: 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

Course is designed as an advanced performing ensemble with specific instrumentation requirements. The VWE performs at M.S.B.O.A. Class B level. All members are encouraged to participate in the M.S.B.O.A. Solo and Ensemble Festival as well as perform at M.S.B.O.A. Band Festival. The group performs at all scheduled formal concepts during the school year.

SYMPHONY BAND

Grade: 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

Course is designed as an advanced performing ensemble with limited instrumentation. The Symphony Band performs at M.S.B.O.A. Class A level. All students are encouraged to participate in the M.S.B.O.A. Solo and Ensemble Festival as well as perform at M.S.B.O.A. Band Festival. The group performs at all scheduled formal concerts during the school year

ORCHESTRA

Grade: 9, 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

Course is designed to enhance skills in string performance. Repertoire is selected based on instrumentation and performers' proficiency. Ensemble presents no less than three performances per year. All students are encouraged to participate in the M.S.B.O.A. Solo and Ensemble Festival as well as perform at M.S.B.O.A. Orchestra Festival. The group performs at all scheduled formal concerts during the school year.

JAZZ BAND (after school)

Grade: 9, 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

Course is designed as a training ensemble for jazz improvisation. Skills include: playing by ear, memorization skills and improvisation. All students are encouraged to participate in the M.S.B.O.A. Solo and Ensemble Festival as well as perform at M.S.B.O.A. Jazz Festival. The group performs at all scheduled formal concerts during the school year.

JAZZ ENSEMBLE (after school)

Grade: 9, 10, 11, 12

Prerequisite: Placement by audition

Course is designed as an advanced performing ensemble. Students demonstrating skills and knowledge in jazz styles and improvisation are challenged with performance opportunities in a variety of instrumental combinations, including regional and state M.S.B.O.A. Jazz Festivals.

AP MUSIC THEORY

Grade: 11, 12

Prerequisite: Acceptance by instructor

This is an advanced Music Theory Course designed for the music student wishing to do an in-depth study of music. The students will be using the Text and Workbook for *Total Harmony* by Kostka and Payne (2000). It is expected that the students will participate in the AP Testing cycle and/or create a project following completion of the course.

VARSITY CHOIR

Grade: 9, 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

Formerly Cadet Choir, this course is designed to offer a performing ensemble for students who have auditioned at a proficient level for the high school, but are not yet ready to perform in Euphony Choir. Repertoire is selected at appropriate level for singers' proficiency. Students are encouraged to participate in M.S.V.M.A. Solo and Ensemble Festival and are required to perform at the District and State M.S.V.M.A. Choir Festival.

WOMEN'S CHORUS AND MEN'S CHORUS

Grade: 9, 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

Gender specific instruction designed to raise the level of individual singers' vocal skills while performing great ensemble repertoire. Students will perform no less than three times per school year.

EUPHONY CHOIR

Grade: 9, 10, 11, 12

Prerequisite: Placement by audition and/or approval of instructor

Euphony Choir members demonstrate the highest level of vocal performance at Jackson High School. The primary focus of the course is in the study of outstanding choral music literature and refining the skills of vocal technique and choral singing. Students are required to participate in M.S.V.M.A. Solo and Ensemble Festival and perform at the District and State M.S.V.M.A. Choir Festival.

DRAMA I

Grade: 9, 10, 11, 12

Prerequisite: None

No Description Available

DRAMA II

Grade: 9, 10, 11, 12

Prerequisite: Drama I

No Description Available

THEATRE TECH (6th hour)

Grade: 9, 10, 11, 12

Prerequisite: None

Students receive instruction in the basic elements of stagecraft including lighting, rigging, sound reinforcement and design and construction of sets. This is a non-traditional class in that a significant portion of the class comprises of working as a theater technician for events in the Jackson High School Auditorium. Some students may also gain employment opportunities at Jackson Community College, The Michigan Theater and other performance venues.

PHYSICAL EDUCATION DEPARTMENT

BASIC PHYSICAL EDUCATION

Grade: 9

Prerequisite: None

This introductory physical education class teaches the student the how, what and why of physical education and physical activity. A variety of exercise programs are introduced; each is designed to fill the specific needs of the students. Emphasis is placed on testing for self-assessment in many areas of fitness. The selection of activities either corresponds to the

concepts being taught or serves a recreational and leisure time purpose appropriate for co-educational activity. This class is a requirement for graduation and is a prerequisite for all other PE classes. Activities include but are not limited to; Invasion games, striking/fielding games, outdoor pursuits, rhythmic activities, target games, net/wall games, aquatics and health related fitness.

HEALTH

Grade: 9

Prerequisite: None

The goal of health class is to build a foundation of knowledge and the resources available to help students make healthy decisions throughout their lifetimes. The emphasis of these topics is to use knowledge to promote responsible decision-making and an understanding of the consequences of one's choices and actions. Students will build this knowledge base through discussion of the issues, reflections on stories from real life situations, scientific and medical facts and current research. Several different learning tools will be employed throughout the course, including but not limited to: lecture, internet research, group discussion, guest speakers, and influence of media, homework, text, current events, role play, story development, student presentations and varieties of assessments. This course will focus on the topics: healthy lifestyles, health skills, character development, physical activity for life, nutrition, tobacco, alcohol, medicines, drugs, endocrine system, reproductive systems, STI's, AIDS, HIV, prenatal development and birth.

HEALTH II

Grade: 9, 10, 11, 12

Prerequisite: Basic PE and Health

ADVANCED PE

Grade: 9, 10, 11, 12

Prerequisite: Basic PE and Health

Advanced physical education is an extension of Basic Physical education with an emphasis on competition and testing for self-assessment in all areas of physical fitness. Activities include but are not limited to: invasion games, striking/fielding games, outdoor pursuits, rhythmic activities, target games, net/wall games, aquatics and health related fitness.

GYM & SWIM

Grade: 9, 10, 11, 12

Prerequisite: Basic PE and Health

Gym and Swim will divide student's instruction and participation time between the pool and the gymnasium. This will provide the opportunity for students to learn different aquatic activities, then compare and contrast them to their land based equivalents. The course will introduce a variety of activities that will engage students in life-long sport and recreational opportunities. Units will include, but are not limited to: fitness activities, volleyball, team handball, water polo, aerobic dance and synchronized swimming. Assessments will include physical fitness testing, skill/task analysis, and sports related writing assignments.

ATHLETIC WEIGHT TRAINING

Grade: 9, 10, 11, 12

Prerequisite: Basic PE and Health

Weight training seeks to increase total body strength through the systematic execution of the Bigger, Faster, Stronger total program. An understanding of how and why strength improvement is stressed. Each student has an individualized program based on their physical tests and personal goals. The class includes strength training, cardiovascular conditioning, isometrics, plyometrics, speed and agility training among others.

FITNESS FOR LIFE

Grade: 9, 10, 11, 12

Prerequisite: Basic PE and Health

Fitness for Life is designed to provide students with an opportunity to interact with health and fitness content in a meaningful way and provide a rich learning environment. Concepts are introduced using individual and team activities in conjunction with health and fitness activities. These concepts are reinforced with hands-on experiences. Each activity includes three parts; a concept, a hands-on activity and an evaluation. The knowledge building concepts provide definitions and information to build understanding about the heart, health and fitness. The hands-on activity is meant to reinforce the concept. The evaluation provides open ended questions for higher order thinking to take place and assist students in making connections and increasing understanding. Concepts to be covered: knowledge of the heart, skills based fitness components, cardiovascular fitness, muscular strength and endurance, flexibility and body composition, goal setting, functional training, circuit training, core strength, stability, agility, reaction time, speed training, acceleration, deceleration and power.

RACQUET SPORTS

Grade: 9, 10, 11, 12

Prerequisite: Basic PE and Health

Racket sports provide students opportunities to acquire knowledge and skills in tennis and pickle ball that may be used in recreational pursuits. Content will include in-depth knowledge and application of the fundamentals of each of the basic strokes, techniques, rules, etiquette, and safety practices necessary to participate in racket sports. Personal fitness will be stressed.

SPORTS OFFICIATING

Grade: 11, 12

Prerequisite: Basic PE and Health

This course will provide the student with the knowledge and expertise necessary to officiate in physical education classes, intramurals, and interscholastically. It includes the basic fundamental skills on officiating as well as the rules and mechanics of some popular sports. This course is designed so the student will be able to: a) demonstrate knowledge of the official rules, b) demonstrate correct officiating techniques and mechanics, and c) pass official certification tests if so desired.

SCIENCE DEPARTMENT

BIOLOGY

Grade: 9, 10, 11, 12

Prerequisite: None

This course is a comprehensive biology course reflecting basic biology concepts. All major topics outlined by the State of Michigan's High School Biology Content Expectations will be covered. Topics included in this Biology HSCE are: the organization and development of living systems, the interdependence of living systems and the environment, genetics, evolution, and biodiversity. There will be many demonstrations, dissections, labs, model construction, opportunities for hands-on projects, and team/partner collaboration. *Common Core State Standards and the Next Generational Science Standards will be reflected as they become finalized.

BIOLOGY HONORS

Grade: 9, 10, 11, 12

Prerequisite: None

This course is a comprehensive biology course that provides curriculum which includes basic biological principles and introduces the diversity of organisms. This is also a preparatory course for those students with the ability and interest to pursue further study in Advanced Placement Biology in high school and beyond. All major topics outlined by the State of Michigan's High School Biology Content Expectations will be covered. Topics included in this Biology HSCE are: the organization and development of living systems, the interdependence of living systems and the environment, genetics, evolution, and biodiversity. There will be many demonstrations, dissections, labs, model construction, opportunities for hands on projects, and team/partner collaboration. *Common Core State Standards and the Next Generational Science Standards will be reflected as they become finalized.

CHEMISTRY

Grade: 10, 11, 12

Prerequisite: Biology

This course is the study of how chemistry relates to the student's day-to-day life experiences. This laboratory filled course covers units of measurement, classifications of matter, elements and their structures, chemical reactions, chemical bonding, solutions, acids and bases, structure of the atom, classification of formulas, nomenclature of compounds, and matter and energy. In addition, Earth and Life Science concepts will be reviewed and all Michigan Merit Curriculum requirements for Chemistry will be met. Success in this course will prepare the student for many other science courses in the future.

CHEMISTRY HONORS

Grade: 10, 11, 12

Prerequisite: Biology

Chemistry is the study of all those things that we can see, touch, and smell. Basically, Chemistry is the study of everything that exists. Lectures, demonstrations, and laboratory activities are used to study the structure, properties, and energy content of substances as diverse as fuels, minerals, vitamins, metals, and foods. This is an excellent preparatory course for those students with the ability and interest to pursue further study in Advanced Placement Chemistry or other upper level science courses. This college preparatory class meets all of the Michigan Merit Curriculum requirements and the State of Michigan's High School Content Expectations. Successful completion facilitates readiness for Advanced Placement Chemistry in either the student's Junior or Senior year.

PLTW INTRODUCTION TO ENGINEERING DESIGN

Grade: 9, 10, 11, 12

Prerequisite: Biology, Algebra I

Project Lead The Way (PLTW) Introduction to Engineering Design is a college-level engineering class that provides students with real-world learning and hands-on experiences in the design and manufacture of solid state parts. Students interested in engineering, biomechanics, aeronautics, and other applied math and science areas will discover this class to be of great use in their future career. In introduction to Engineering Design, students will learn the engineering design method and use it to create, prototype, and analyze products. They will learn to use specialized 3-D modeling computer software. Students are also expected to build a portfolio of completed projects that can be used during college interviews. Students completing the class and test given by Project Lead The Way will be rewarded with college credit or preferential admission to the engineering college of many universities.

PLTW PRINCIPLES OF ENGINEERING

Grade: 10, 11, 12

Prerequisite: Biology, Algebra

Project Lead The Way (PLTW) Principles of Engineering is a second-year, college-level engineering class that provides students with real-world learning and hands-on experiences in technology systems and manufacturing processes. Students interested in engineering, biomechanics, aeronautics, and other applied math and science areas will discover this class to be of great use in their future career. In Principles of Engineering, students will learn to build and control machinery using Fishertechnic parts and computers interfaces. They will study power grids technology, clean energy alternatives, insulation, robotics, and vehicle design. Students are also expected to build a portfolio of completed projects that can be use during college interviews. Students completing the class and the test given by Project Lead the Way will be rewarded with college credit or preferential admission to the engineering college of many universities.

BODY PHYSICS

Grade: 11, 12

Prerequisite: None

This course is an introduction to the laws of physics and their important role in everyday living. This course is best suited for the non-science major or the student who enjoys science but is intimidated by the math required in a traditional physics course. Students will explore how their world works in the areas of ear, eyes, bones, and muscles using their curiosity as their guide.

EVERYDAY PHYSICS

Grade: 11, 12

Prerequisite: None

This course is an introduction to the laws of physics and their important role in everyday living. This course is best suited for the non-science major or the student who enjoys science but is intimidated by the math required in a traditional physics course. Students will explore how their world works in the areas of communication, transportation, and home using their curiosity as their guide.

PHYSICS HONORS

Grade: 11, 12

Prerequisite: Chemistry, Geometry

Physics is a study of how things work. Curiosity and the desire to explain observations is what makes Physics interesting. Topics covered include motion, forces, energy, waves, light, electricity, and magnetism. The ability to reason and apply mathematical relationships is necessary to learn physics. There will be many examples, demonstrations, laboratory activities, and practice problems to help clarify the concepts covered in class.

OCEANOGRAPHY

Grade: 10, 11, 12

Prerequisite: None

The study of Oceanography provides students with an understanding of the scientific questions, complexities, and uncertainties involved in ocean use. It also demonstrates the role and importance of the ocean in nurturing and sustaining life on the planet. An emphasis is placed on the interdisciplinary nature of marine science, stressing its links to biology, chemistry, geology, physics, meteorology, astronomy, ecology, history, and economics.

FORENSICS

Grade: 11, 12

Prerequisite: None

Forensic Science is the application of science to the field of law. Our Forensic Science course offers an innovative way of learning science which develops critical thinking and problem-solving skills. With many labs including fingerprinting, DNA electrophoresis, hair analysis, and the measurement of bones and skeletons students will learn a great deal about themselves and their fellow humans. Forensic Science involves those areas of Chemistry, Biology, Physics, and Geology that are useful for determining the value of the evidence found at the crime scene as well as other related evidence. Major topics included in this course will be Fingerprinting, DNA Analysis & Electrophoresis, Bullet Microscopy, Forensic Toxicology, Entomology, Odontology, and Anthropology.

ENVIRONMENTAL SCIENCE

Grade: 10, 11, 12

Prerequisite: Earth Science, Biology

Environmental Science is a middle level science course for students that have acquired background knowledge in both Earth Science and Biology. The course covers a variety of nature topics with an emphasis in the areas of Earth Science and Ecology. Concepts will be developed in a hands-on manner through a combination of lectures, labs, and outdoor studies where students will learn and apply their knowledge to real world environmental problems. Topics will include evaluating local aquatic and terrestrial ecosystems, studying nutrient cycling through various ecosystems, land use, and the impact of humans on the environment.

PHYSIOLOGY

Grade: 10 w/approval, 11, 12

Prerequisite: Biology

Physiology is an introductory course into the human body. It is designed for students that are preparing for a career in the human health, but also for everyone interested in how their own body functions. It surveys the levels of organization from the conception cell to tissues, organs, and organ systems. The course has a strong laboratory component including the dissection of lungs, hearts, kidneys, vascular structures, and eyes.

MICROBIOLOGY

Grade: 11, 12

Prerequisite: Biology, Chemistry

Microbiology is an extension of the Biology and Honors Biology programs. The program is designed to last two trimesters and cover the following topics: Microbiology Laboratory Skills and Safety, Microbial Growth, Microscopy and Staining of Organisms, Selective Media, Differential Tests, Medical and Food Microbiology, Microbial Genetics, and Identifying Unknowns. Daily activities are designed around hands-on laboratory experiences, brief lectures and demonstrations. Students will be required to keep a written laboratory notebook of all class exercises. Evaluation will be based upon successful completion of various activities and instructor observations. Trimester 1 Final will be a written exam and Trimester 2 will be evaluated upon successful identification of an unknown organism.

PHYSIOLOGY

Grade: 11, 12

Prerequisite: None

Physiology is a comprehensive study of the human body, all of its systems, and how they work together. The course is designed to help students grasp the fundamental aspects of human anatomy as well as the inner workings of the body. Lab is an integral part of this course.

ENVIRONMENTAL SCIENCE

Grade: 10, 11, 12

Prerequisite: Earth Science and Biology

Environmental science is a middle level science course for students that have acquired background knowledge in both earth science and biology. The course covers a variety of nature topics with an emphasis in the areas of earth science and ecology. Concepts will be developed in a hands-on manner through a combination of lectures, labs and outdoor studies where students will learn and apply their knowledge to real world environmental problems. Topics will include evaluating local aquatic and terrestrial ecosystems, studying nutrient cycling through various ecosystems, land use, and the impact of humans on the environment.

ADVANCED PLACEMENT CHEMISTRY

Grade: 11, 12

Prerequisite: Chemistry

Microbiology is an extension of the Biology and Honors Biology programs. The program is designed to last two trimesters and cover the following topics: Microbiology Laboratory Skills and Safety, Microbial Growth, Microscopy and Staining of Organisms, Selective Media, Differential Tests, Medical and Food Microbiology, Microbial Genetics, and Identifying Unknowns. Daily activities are designed around hands-on laboratory experiences, brief lectures and demonstrations. Students will be required to keep a written laboratory notebook of all class exercises. Evaluation will be based upon successful completion of various activities and instructor observations. Trimester 1 Final will be a written exam and Trimester 2 will be evaluated upon successful identification of an unknown organism.

ADVANCED PLACEMENT BIOLOGY

Grade: 11, 12

Prerequisite/Concurrent: Chemistry and Physiology

The Advanced Placement Biology course is designed to be the equivalent of a college introductory Biology course usually taken by Biology majors during their first year of college. AP Biology includes those topics covered in a college Biology course. AP Biology differs from Honors Biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. At the end of the AP Biology year, students are encouraged to take the AP Biology college board exam which may allow for the acquisition of college credit (score of 3,4 or 5). Students who have enrolled in the AP program must have successfully completed Biology and Chemistry. AP Biology goals are provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal with the rapidly changing science of Biology. The AP Biology curriculum focuses on Four Big Ideas and Seven Science Practices, as assessed on the AP College Board Exam.

ADVANCED PLACEMENT PHYSICS

Grade: 11, 12

Prerequisite: Honors Physics, Pre-Calculus

The Advanced Placement Physics course will be taught on a level of difficulty equal to that of the college freshman, Calculus-based, Physics course. The topics covered will include only Mechanics, Electricity, and Magnetism since this is what the AP Physics C Exam will test. Laboratory experiments will be performed using the same technology found in colleges around the country.

SOCIAL SCIENCE DEPARTMENT

AMERICAN GOVERNMENT HONORS

Grade: 11, 12

Prerequisite: None

This course is designed to provide the student with information and activities that will generate an interest in becoming an active citizen of the United States. Each class will emphasize the study of all major topics outlined by Michigan's High School Social Science American Government Expectations for college and career readiness. This course offers a more in depth study into the American Government curriculum and will allow them to have an excellent background toward pursuing further study in advanced American government or beyond. Text and materials will be used to evaluate the current domestic and foreign affairs of our American Government.

AMERICAN GOVERNMENT

Grade: 11, 12

Prerequisite: None

This course is designed to provide the student with information and activities that will generate an interest in becoming an active citizen of the United States. Each class will emphasize the study of all major topics outlined by Michigan's High School Social Science American Government Expectations for college and career readiness. Text and materials will be used to evaluate the current domestic and foreign affairs of our American Government.

ADVANCED PLACEMENT U.S. GOVERNMENT AND POLITICS

Grade: 11, 12

Prerequisite: None

The American Government courses are designed to provide the student with information and activities that will generate an interest in becoming an active citizen of the United States. Each class includes the basic core program and individual teachers will follow the core program and provide for advanced assignments as the course demands. Text and materials will be used to help students evaluate the current domestic and foreign affairs of our American Government. Phase 4 (Advanced Placement American Government) provides instruction directed at students reading above grade level. This course is designed to prepare the student for the Advanced Placement Exam.

UNITED STATES HISTORY & GEOGRAPHY HONORS

Grade: 9

Prerequisite: None

This course begins with the history of World War I, and will cover material up to the present time. This course will help students become aware of the legacy of hope bequeathed to them by previous generations of Americans, a legacy that is theirs to preserve and build on. The course meets the State of Michigan's High School Social Science expectations for college and career readiness. This course involves a more in depth study into the History curriculum and will allow them to have an excellent back ground toward pursuing further study in advanced history or beyond.

UNITED STATES HISTORY & GEOGRAPHY

Grade: 9

Prerequisite: None

This course begins with the history of World War I, and will cover material up to the present time. This course will help students become aware of the legacy of hope bequeathed to them by previous generations of Americans, a legacy that is theirs to preserve and build on. The course meets the State of Michigan's High School Social Science United States History expectations for college and career readiness. Most work will be completed in class with the textbook presenting the story of the American nation in a basic and simplified language.

WORLD HISTORY & GEOGRAPHY HONORS

Grade: 10

Prerequisite: None

This course is designed to teach students the urban, economic, historical, cultural and physical aspects of world history and geography. Emphasis will be on the study of all major topics outlined by Michigan's High School Social Science World History and Geography Content Expectations for college and career readiness. This course offers a more in depth study into the World History-Geography curriculum and will allow them to have an excellent background toward pursuing further study in advanced world history and geography or beyond. This course emphasizes critical thinking skills, and an awareness of process in addition to memorization of facts. Text and material will include a strong technological component.

WORLD HISTORY & GEOGRAPHY

Grade: 10

Prerequisite: None

This course is designed to teach students the urban, economic, historical, cultural, and physical aspects of world history and geography. Emphasis will be on the study of all major topics outlined by Michigan's High School Social Science World History and Geography Content Expectations for college and career readiness. Text and materials will include a strong technological component.

ECONOMICS HONORS

Grade: 11

Prerequisite: None

This course deals with the study of how society, using limited resources, goes about producing, distributing, and consuming goods in order to satisfy their unlimited wants. Each class will emphasize the study of all major topics outlined by Michigan's High School Social Science Economic Expectations for college and career readiness. This course offers a more in depth study into the Economic curriculum, and will allow them to have an excellent background into advanced economics or beyond. When available, students will participate in a Computer Economic Simulation in competition against students from throughout Michigan.

ECONOMICS

Grade: 11

Prerequisite: None

This course deals with the study of how society, using limited resources, goes about producing, distributing, and consuming goods in order to satisfy their unlimited wants. Each class will emphasize the study of all major topics outlined by Michigan's High School Social Science Economic expectations for college and career readiness. When available, students will participate in a Computer Economic simulation against students from throughout Michigan.

AFRICAN AMERICAN HISTORY

Grade: 9, 10

Prerequisite: None

This course will bring the history of African-American experiences to life and will invite students to explore the rich culture that African-Americans have nurtured throughout their history. It examines the many faceted quest of African-Americans for freedom, and uses audio features, such as "African-American Voices" that will draw students in, and keep them involved in the study of history. It begins with an overview of African history, and focuses on African-American history from 6000 B.C.E. to 1865.

AFRICAN AMERICAN HISTORY

Grade: 11, 12

Prerequisite: None

This course will bring the history of African-American experiences to life and will invite students to explore the rich culture that African-Americans have nurtured throughout their history. It examines the many faceted quest of African-Americans for freedom, and uses audio features, such as "African-American Voices" that will draw students in, and keep them involved in the study of history. It focuses on African-American history from reconstruction to the present.

MICHIGAN HISTORY

Grade: 9, 10, 11, 12

Prerequisite: None

Michigan History is the study of the state of Michigan from pre-historic times to the present. It includes a study of the industry, resources and variety of interests and activities within the state. It also includes a study of geography as well as a study of Jackson County.

WORLD RELIGION

Grade: 11, 12

Prerequisite: None

This course will introduce the student to the five major world religions, Hinduism, Buddhism, Judaism, Christianity, Islam, also included will be a brief study of select groups or movements that have appeared in the American religious scene: Mormons, Jehovah's Witnesses, Christian Science and other groups as time permits.

CRIMINAL AND CIVIL LAW I

Grade: 11, 12

Prerequisite: None

Criminal and Civil Law intends to provide students with a practical understanding of law and the legal system that they use in their everyday lives. Students will research and discuss the human values underlying the legal system and the concept of rights and responsibilities. Students will explore in depth, the law and the legal system, with emphasis in the area of criminal justice. Text and primary resources will be used for the course. Students may participate in statewide mock trial competitions.

CRIMINAL AND CIVIL LAW II

Grade: 11, 12

Prerequisite: Criminal Civil Law I or Instructor approval

Students will explore in depth the law and the legal system, with emphasis in the area of criminal justice. Emphasis will also be on the range of protection for citizens reflected in the body of contract and consumer laws. The focus also will be on mock court trials, trial procedure, Supreme Court cases and participation in student court and conflict resolution. Text and primary resources will be used for this course. Students may participate in statewide mock trial competitions.

PSYCHOLOGY

Grade: 11, 12

Prerequisite: None

This is a class designed for students considering pursuing a college education and will present the physiological and psychological development of man from birth through old age. The various psychological stages through which man passes are presented through a textbook, recent research articles relating to human behavior, films exploring specialized areas of psychology, and activities designed to allow students to apply concepts learned. An average or above reading level is required for satisfactory comprehension of assigned materials.

SOCIOLOGY

Grade: 11, 12

Prerequisite: None

Sociology is the science that studies human society and social behavior. Its main interest is how people relate to one another and influence each other's behavior. Areas of emphasis include cultural values, development of self, defiance and crime, class system, discrimination, status and roles, the family, school, church, and collective behavior and social movement.

ADVANCED PLACEMENT MACRO/MICRO ECONOMICS

Grade: 11, 12

Prerequisite: None

The Economics courses are designed for the students who will continue their education in college or technical studies. Economics deals with the study of how society, using limited resources, goes about producing, distributing, and consuming goods and services in order to satisfy their unlimited wants. Each class includes the basic core program and individual teachers will follow the core program and provide for advanced assignments as the course demands. Students will participate in a Computer Economic Simulation in competition against students from throughout Michigan. Phase 4 advance placement Economics provides instruction for students who read above grade level. This course is intended to prepare the student for the AP Exam.

ADVANCED PLACEMENT WORLD HISTORY

Grade: 10, 11, 12

Prerequisite: None

The purpose of the Advanced Placement (AP) course in World History is to prepare qualified students in understanding the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. Focused primarily on the past thousand years of the global experience, the course builds on an understanding of cultural, institutional, and

technological precedents that, along with geography, have set the stage for the world of the 21st Century. The program prepares students for the mandatory Advanced Placement World History Examination and the mandatory Advanced Placement European History Examination, which are both given in May. Students who perform satisfactorily on either one or both of the exams are granted college credits and/or advanced placement by more than 2900 colleges and universities worldwide.

ADVANCED PLACEMENT PSYCHOLOGY

Grade: 12

Prerequisite: None

The goal of the AP Psychology course is to provide the student with a learning experience that mirrors most college introductory psychology courses. Students will gain knowledge of key theories and concepts of the many subfields within psychology, and they will apply skills in understanding and critiquing psychological research. Emphasis will be made on the development of critical psychological reasoning skills that challenge students to think, as well as improving communicative skills.

ADVANCED PLACEMENT U.S. HISTORY

Grade: 9, 10, 11, 12

Prerequisite: Teacher Recommendation

This course in United States History is designed for qualified students who wish to complete studies in secondary school equivalent to a college introductory course in U.S. history. The course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for the Advanced Placement United States History Examination, which is given in May.

WOMEN IN HISTORY

Grade: 9, 10, 11, 12

Prerequisite: None

This course is a comprehensive study of women throughout history and the contributions they have made throughout time. Students will learn that women played important roles while ruling nations, fighting in wars, contributing to the economies of the world, and researching and developing advancements in the sciences. This course will illustrate to students that women were important players

ATHLETIC PARENT AND STUDENT HANDBOOK

ATHLETIC PROGRAM

Philosophy of Athletics

Athletics is a part of the total educational program of Jackson Public Schools. We realize not everyone can be a team member, but we do realize everyone can benefit from the program. Participation in the Interscholastic Athletic Program is for those that have above average physical skills in the respective sports offered. Athletics must fulfill its proper role in the total educational program. It is important that we make every effort to provide equal opportunity for each student. At no time should the athletic program place the total educational curriculum secondary in emphasis; the program should function as a part of the whole curriculum and strive for the development of a well-rounded individual, capable of taking his or her place in our modern society.

Objectives

The Jackson Public Schools Athletic Program is dedicated to providing all athletes an opportunity to grow physically, emotionally, and spiritually. In an attempt to accomplish this objective, the Athletic Department will teach the following 10 educational principles:

- To compete within a given set of rules.
- To maintain physical well-being.
- To maintain a constructive release of energies.
- To handle socially acceptable recognition.
- To understand other people's feelings.
- To be under emotional control.
- To maintain self-discipline.
- To persevere toward a goal.
- To think under pressure.
- To be loyal to a situation, cause, school or nation.

Governing Bodies

The Board of Education is the local governing body for interscholastic athletics. The Athletic Department shall follow all policies of the Jackson Public School Board of Education.

The **Michigan High School Athletic Association (MHSAA)** has been voluntarily selected by the Jackson Public School Board of Education as the governing body for athletics. The Athletic Department shall enforce all rules and regulations of the MHSAA.

The **Capital Area Activities Conference** has been voluntarily selected as Jackson High School's conference affiliation. The Athletic Department shall enforce all policies and regulations of the C.A.A.C. JHS is a member of the Blue Division which includes the following schools: Lansing Eastern, Lansing Everett, Grand Ledge, Holt, JHS, Okemos, Lansing Sexton.