

## High School Course Offerings

### ENGLISH

**English 9:** This course provides an introduction to high school reading and writing. Using classic pieces of literature such as *The Odyssey*, *Romeo and Juliet*, and *Of Mice and Men*, this class will provide students with the skills necessary to succeed in the analytical, critical writing and reading comprehension required by a rigorous high school curriculum.

**English 10:** This course focuses on the literary traditions of American culture. Reading *The Crucible*, *A Raisin in the Sun*, *Hamlet*, and *Lord of the Flies* require students to think deeply about themes such as authority, poverty, racism, freedom and the American spirit. Challenging literary response essays ask students to reflect on their thoughts concerning the aforementioned themes.

**English 11:** This course focuses on British literature through the course of time and requires students to think critically and respond to complex themes and ideas. Rigorous writing assignments accompany each piece of literature. In addition, it covers Shakespeare's *Hamlet*, stories from *Canterbury Tales*, and "Beowulf."

**English 12:** This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the modern period. With interactive Introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors. Adding an extra dimension to the British literary experience, this course also exposes students to world literature.

**AP English Language:** AP English Language and Composition is an introductory college-level composition course. Students cultivate their understanding of writing and rhetorical arguments through reading, analyzing, and writing texts as they explore topics like rhetorical situations, claims and evidence, reasoning and organization, and style. The course will prepare the student for the Advanced Placement examination in English offered in the spring. College credit and advanced placement status are offered by many colleges to students who do well on that exam.

### Mathematics

**Algebra 1:** Algebra 1 covers includes topics such as: arithmetic and evaluation of expressions involving signed numbers, exponents, and roots; properties of real numbers; absolute value; equations and inequalities involving absolute value; scientific notation; solution of equations in one unknown; solution of simultaneous equations; the algebra of polynomials and rational expressions; functional notation and functions; probability.

**Geometry:** Geometry covers the basic tools of constructing geometric shapes. Students will explore the characteristics of a variety of geometric figures. They will learn to use reasoning and write proofs. In addition, they will learn to calculate surface area and volume.

**Algebra 2:** Students will continue to explore the basic tools of Algebra. Study of functions, graphs, and equations, linear systems, and matrices will be developed. Functions dealing with polynomials, rational, logarithmic and exponential will be covered. The study of basic probability, statistics, and trigonometry will be introduced.

**Statistics:** This course explores various number relationships and functions. Trigonometric functions, graphs, and equations will be introduced. In addition, additional study of statistics and data analysis along with an introduction to calculus will be covered. This course will also incorporate the study of careers that apply the various skills that will be explored.

## **SOCIAL STUDIES**

**American History (U.S. History):** This class will explore the history from the end of the 19th Century to the contemporary United States. Students will examine the complex timeline of events, social and economic trends, wars and political issues that shaped the modern fabric of the United States. Major events that will be analyzed are the Industrial Revolution, Progressives, World War I, The Depression, World War II, The Cold War, Civil Rights, and Current Events.

**World History:** This class will explore world history and geography. Students will examine the classical world, growth and spread of religion, communication, trade and cultural exchange of the world to 1500, the emergence of the Global Age in the 15<sup>th</sup> to 18<sup>th</sup> centuries, Global Revolutions, Global Crisis and Achievement of the 1<sup>st</sup> half of the 20<sup>th</sup> century, the Cold War and its aftermath, and contemporary global issues.

**Civics/Economics:** Emphasis is placed on the basic skills necessary for learning to become educated and active citizens in society. The focus is on the history of government and how it has shaped it into what it is today. Students will learn how the government works in a democratic society. They will see how governmental decisions affect the economy and everyday life. In addition, they will learn what role they play as citizens in government. Students will briefly look at our role and effect in the world. They will also explore the basic fundamentals of economics in today's society.

## **SCIENCE**

**Anatomy & Physiology:** Anatomy and physiology will be a writing-intensive course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will also learn the mechanisms for maintaining homeostasis within the human body. This course will involve laboratory activities, projects, textbook material, models, diagrams, journal writings, and four major papers. Each of these

papers will be explaining the cause and effect of one system of the body on another (i.e. what role the central nervous system plays on the respiratory system). Lectures and activities will emphasize topics related to human anatomy and physiology. Students will be required to participate in all lectures and activities. Students are required to read journals and medical articles. Class time will be used to reinforce concepts through discussion, labs and research. Students will be required to keep one organized composition notebook used for notes and vocabulary. Tests will include all materials discussed or assigned both in and out of class. Quizzes will be every other Friday.

**Biology:** Students will explore the science of living things. Topics include the chemical basis of life, cell structure and function, genetics, biological diversity, ecology, and a survey of living organisms. Microscopic study of cells, and microorganisms, and animal dissection are included. Each year, less time will be spent on prerequisite knowledge, allowing more time for more core knowledge integration.

**Chemistry:** This course is a comprehensive look at the structure, states, and interaction of matter with an emphasis on atomic theory. It also examines the mathematics of chemical equations. Laboratory experiments are regularly included to give first-hand experience with chemical behavior, and to develop basic laboratory skills.

**Forensics:** Forensics is a course designed to prepare the student to participate in various speech activities. The student will be required to prepare selected speeches for classroom presentation. Students will master speeches in the following areas: informative speaking, original oratory, broadcasting, serious and humorous interpretations, extempore and impromptu speaking, storytelling, and multiple presentations. Students will also be given an opportunity to compete with other schools in tournaments in the spring if they so desire.

**Earth Science:** This course is a comprehensive study of the physical aspects of the earth and atmosphere, which includes astronomy, climatology, environmental science, geology, meteorology and oceanography.

## **FOREIGN LANGUAGE**

**Spanish I:** Spanish I is designed to introduce students to the fundamentals of grammar and vocabulary of the Spanish language. Students will be engaged through listening, reading, writing, and speaking activities. Students will be expected to read authentic materials, write guided compositions, and communicate as much as possible in the target language, including oral participation in a positive, respectful manner daily. Students are expected to enter this course with a fundamental understanding of English grammar.

**Spanish II:** This course is a continuation of Spanish I and is conducted largely in the same manner with regard to structure. Students will study more advanced grammatical structures and vocabulary, continue their exposure to other cultures, and be expected to use and understand spoken and written Spanish with higher frequency than Spanish I. Other activities will include

reading authentic materials, writing compositions, and participating in pairs and groups. Oral participation will account for a greater percentage of the grade than in Spanish I.

**Spanish III:** In Spanish III, students will continue the study of grammar, vocabulary and Hispanic culture, but at a more advanced pace. The class is conducted largely in Spanish, and students will be expected to use and understand increasingly complex concepts and structures as they listen, speak, read and write in the language. Class activities will include lectures, discussions, group work, skits, analyzing short stories, and writing compositions. Comprehension and speaking skills will be further developed and evaluated for higher accuracy. Participation will account for a significant percentage of the grade for this course.

**Spanish IV:** The emphasis of Spanish IV will be on the further development of reading, writing, listening and speaking skills, with continued expansion of grammar and vocabulary. Students will read and analyze longer selections of Hispanic literature from a variety of Old and New World authors. Class activities will also include discussions, group work, skits, and compositions. The class is conducted in Spanish and active, spontaneous use of the language is expected. Participation will account for a significant percentage of the grade for this course.

**Spanish V:** The emphasis of Spanish V will be on the further development of reading, writing, listening and speaking skills, with continued expansion of grammar and vocabulary. Students will read and analyze longer selections of Hispanic literature from a variety of Old and New World authors. Class activities will also include discussions, group work, skits, and compositions. The class is conducted in Spanish and active, spontaneous use of the language is expected. Participation will account for a significant percentage of the grade for this course.

**French I:** French I is designed to introduce students to the fundamentals of grammar and vocabulary of the French language. Students will be engaged through listening, reading, writing, and speaking activities. Students will be expected to read authentic materials, write guided compositions, and communicate as much as possible in the target language (including oral participation in a positive, respectful manner daily). Students are expected to enter this course with a fundamental understanding of English grammar.

**French II:** This course is a continuation of French I and is conducted largely in the same manner with regard to structure. Students will study more advanced grammatical structures and vocabulary, continue their exposure to other cultures, and be expected to use and understand spoken and written French with higher frequency than French I. Other activities will include reading authentic materials, writing compositions, and participating in pairs and groups. Oral participation will account for a greater percentage of the grade than in French I.

**French III:** In French III, students will continue the study of grammar, vocabulary and Francophone culture, but at a more advanced pace. The class is conducted largely in French, and students will be expected to use and understand increasingly complex concepts and structures as they listen, speak, read and write in the language. Class activities will include lectures, discussions, group work, skits, analyzing short stories, and writing compositions.

Comprehension and speaking skills will be further developed and evaluated for higher accuracy. Participation will account for a significant percentage of the grade for this course.

**French IV/V:** The emphasis of French IV will be on the further development of reading, writing, listening and speaking skills, with continued expansion of grammar and vocabulary. Students will read and analyze longer selections of Francophone literature from a variety of Old and New World authors. Class activities will also include discussions, group work, skits, and compositions. The class is conducted in French and active, spontaneous use of the language is expected. Participation will account for a significant percentage of the grade for this course.

## **ELECTIVES**

**Distance Learning:** To fulfill the Michigan Merit Curriculum requirement for online learning experience, each student will be expected to complete an online educational course, which could include an elective course not offered at Madison; or a remedial course to supplement an academic or elective course offered at Madison, for which the student may need additional support for successful completion. The course of study must be approved by the teacher, counselor, or administration, in order to be considered for credit. This course will also include online ACT Test Prep, helping students prepare for the ACT/MME testing which will take place in the spring.

**Math MTSS:** Using a differentiated and multi-age grouping approach, the MREL will provide recovery for Pre-Algebra, Algebra 1, and Geometry . In addition, extension for advanced students will take place in the same groupings. A provision of additional instruction and small-group support will enable both extension and recovery efforts to be more individualized and increase in efficiency.

**Yearbook:** Students in yearbook will spend the year working within designated programs to create the yearbook for the current school year. This class will help students develop skills in computer design, journalism, photography, marketing, and advertisement sales.

## **ART ELECTIVES**

**Art I:** Art I is designed to teach the basics in a broad range of 2D art including drawing, painting, collage, ink, and a few 3D art projects including ceramics. This class is an introduction to the elements and principles of design and color theory. There will be lessons in non-traditional western art, art history, and art critique.

**Art II:** Art II is designed to teach the basics in a variety of traditional and non traditional mediums, including graphic design, photography, printmaking, sculpture, jewelry making, and more. Along with introducing new mediums, students will continue learning about art history and art critique.

**Art III:** Art III focuses on advancing students' skills in drawing and painting along with a few 3D disciplines. This includes projects focusing on real life drawing, landscape painting, watercolor,

and Gothic and Renaissance art history. Along with building their skills and portfolio students will study from famous artists and learn about art theory in order to develop their own artistic voice.

**Art IV:** Art IV focuses on advancing students' skills in drawing and painting along with a few 3D disciplines. This includes projects focusing on real life paintings, mixed media, ink, and Impressionism and Pop Art. Along with building their skills and portfolio students will study from famous artists and learn about art theory in order to develop their own artistic voice.

**Art Appreciation:** In this course the students will create art that they will appreciate and art that will express themselves: Family Tree, Who they want to be, Favorite artists.

**Digital Art:** This course is for artists who are interested in digital art and/or photography. This class is split into two sections. In the first half students will be exercising and learning about photography with SLR cameras. The second half is learning how to manipulate photography using digital programs, and how to create works from scratch with digital art.

**Advance Art:** Advance Art is for students who are passionate about their art and want to build on their skills and create their own unique portfolio. To take AdvArt, students should be self-motivated because they will have the opportunity to create their own pieces and need to be able to work hard and manage their own time. Students can focus on their favorite mediums, including drawing, painting, photography, and sculpting. At the end they will have a developed portfolio of their best work, featuring projects and subjects that colleges look for in portfolios. This class can be taken twice.

**AP Studio Art:** This year-long course is offered to students who have demonstrated a passion and skill for a medium in art and have practiced their art for at least three years. AP Art is a college level visual art class that counts for college credit. It is very different from other AP courses in that there is no test but a portfolio submission. Toward the end of the school year the student will submit a 24-piece portfolio to the College Board to be judged. This course can be challenging because the student will have to work on articulating their artwork and to have all their pieces done in time. There are three categories: Drawing (which can include painting), 2D Design, and 3D Design (which can include ceramics).

**3-D Art I:** This art course focuses on creating with 3D mediums. Students will mostly focus on ceramics, and will also create with glass, paper mache, plaster, and more. Along with building art and developing their creativity, students will learn about art history, design theory, and famous sculptors.

**3-D Art II:** This class focuses on advancing students' skills in hand building ceramics and other sculptures. This will also be the introduction for wheel throwing projects, where students will create bowls and vases. There will be lessons in human figures, large sculptures, famous artists, and self-expression.

**3-D Art III:** This class focuses on students developing their building and sculpting skills. This is a class that requires students to be self-motivated and organized because they will have a lot more freedom in developing their own work so they can create their own voice.

## **MUSIC ELECTIVES**

**Music Appreciation:** Music Appreciation is a class centered on learning the fundamentals of music. Students will learn: music room expectations, how to care for instruments, how to play instruments, where American music comes from, music theory, music composition and important information for future music classes.

**Modern Music:** Modern Music is a class focusing on American Music, it's influence on culture, and how we got from 1850-2000 musically. Students will learn about historically valid musicians and their styles/genres, American cultures and why they exist, how to play 3 styles of music from each decade from 1850-2000, how to write, transcribe and read/play music, basics in music theory and composition and what to listen for in identifying styles/genres of music.

**Percussion Techniques:** Percussion techniques will focus on primarily percussion instruments, the techniques required to be able to facilitate the instruments, and playing in an ensemble setting. Students will learn hand and foot coordination, how to read rhythms, syncopation, multiple percussion instruments, marching percussion and how to play/work together in an ensemble setting.

**Performance Band & Choir:** Performance Band & Choir is centered on performing for school events. It encompasses Marching band, concert band, pep band, holiday and parade performances. It relies on student participation/attendance for all performances. Performance dates will be given in the first month of school. Students will learn Marching/Pep Band repertoire, marching techniques and procedures, instruments we will play in our setting, how to play in an ensemble and discipline and dedication.

**DJ Workshop:** DJ Workshop will focus on DJ techniques. Students will learn how to make songs clean, make individualized mixes, make a playlist, DJ live events and learn how to make it in the real world of music. Performances will be during school and after school.

## **ENGLISH & SOCIAL STUDIES ELECTIVES**

**Geography, Current Events, and History through Media:** Using a variety of media, students will explore historical events and explore their historical basis, economic significance, geographic connections, and sociological and political implications. These explorations will be the basis for project-based summaries and projections presented in group and individual formats using varied media. Projects will utilize distance-learning technologies and focus on peer-education as well as the development of visual and audio presentations.

**Drama in Literature:** Using literature as a basis, students will explore basic components of drama and types of productions. An exploration of varied presentations of the same material

and the staging methods used to convey similar themes with different intent and results will be a focus. Students will develop and stage their own versions of literary works.

**Great Books:** In this class we will be reading multiple books/short stories/poetry from multiple genres. While reading these books we will have class discussions throughout class time and generate questions about the text as we read. We will go deeper into the stories by analyzing their meanings and answering more advanced questions related to the stories. This class will help students “go deeper” into the literature they are exposed to in high school by giving them usable tools and methods to do so. They will learn how to go beyond the surface of literature. Students will learn how to support their ideas from the text by using information directly from the text in order to strengthen their skills when writing essays. This will be a great continuation of 9th and 10th grade composition courses in that many of those students understand the structure of an essay but lack the analysis and critical thinking to produce impressive content in their essays. Students will analyze poetry and short stories during the course. This class will assist students in developing insight and deeper thoughts while reading. As an aside, the instructor has been known to have great fun and humor while having serious literary conversation.

**Academic Prep:** This course will focus on research based strategies to improve organization, note taking, test preparation, etc. Student grades are based upon participation and use of class time. No weekly grades will be posted. Students will receive a Satisfactory or Not Satisfactory at the end of each marking period.

**College Prep:** Seniors will prepare for college in finishing their Educational Developmental Plans (EDP). This college preparatory course is also designed to further the student’s mastery of writing, reading, and speaking skills. Students will develop a greater awareness of language, literature, and writing through literature analysis, discussion and the writing of critical essays.

**Statistics:** Students in this course study how to collect, organize, analyze, and interpret numerical information. The content of this course will include: random samples and graphs, measures of central tendency, variation, standard deviation, theory, binomial probability distribution, normal distributions, sampling distributions, estimation, hypothesis testing, regression and correlation.

**Creative Writing:** Creative writing courses expose students to a variety of types of writing and provide them with opportunities to create their own works. Creative writing majors often take courses focusing individually on fiction, poetry, playwriting, screenwriting and nonfiction.

**Research Writing:** Students will practice the skills necessary to complete thorough research and generate a 5-paragraph essay. Skills that will be practiced throughout the course include: generating questions about issues of interest, focusing their research, creating hypotheses, evaluating and selecting appropriate sources, synthesizing and evaluating research findings, drawing conclusions, presenting their findings, and editing/revising their work. Habits of organization, collaboration, inquiry, and others will be practiced throughout this process.



**SAT Prep:** This class is offered in both English and Math. The students will cover materials and content that they missed or lacked in current assessments. Core content will be recovered and assessed to ensure the students retained the information. Testing skills will also be covered and practiced during the courses as well.

**Current Events:** Using a variety of media, students will explore current events with a global perspective, including their historical basis, economic significance, geographic connections, and sociological and political implications. These explorations will be the basis for project-based summaries and projections presented in group and individual formats using varied media.

**Reading Skills and Strategies:** Designed to help the struggling reader develop mastery in the areas of reading comprehension, vocabulary building, study skills, and media literacy, this course's primary content strands aid students to success. Using these strands, the course guides the student through the skills necessary to be successful in the academic world and beyond. The reading comprehension strand focuses on introducing the student to the varied purposes of reading (e.g., for entertainment, for information, to complete a task, or to analyze). In the vocabulary strand, the student learns specific strategies for understanding and remembering new vocabulary. In the study skills strand, the student learns effective study and test-taking strategies. In the media literacy strand, the student learns to recognize and evaluate persuasive techniques, purposes, design choices, and effects of media. The course encourages personal enjoyment in reading with 10 interviews featuring the book choices and reading adventures of students and members of the community.

## **PHYSICAL EDUCATION ELECTIVES**

**Physical Education/Health:** Gym and health are taught in combination with each other. Students will learn the fundamental rules of both team games, as well as individual games. They will learn about the importance of physical activity. Health units will focus on nutrition, making healthy lifestyle choices, the dangers of alcohol and drug use. In addition, sexual education will be taught.

**Total Body Training:** This class consists of dynamic, full-body strength and cardio workouts. Resistance trainers, barbells, dumbbells, free weights and your own body weight challenge you to increase your strength and stay fit for a lifetime.

**Sports Skills & Physical Fitness:** This class will offer the student-athlete an opportunity to improve on specific skills for a variety of sports. He/she will also improve on strength and fitness with alternating workouts. Resistance training plans will be developed in a sport-specific manner for each individual participant. These tailored workouts will be accompanied by full group participation in team and individual sports.

**P.E. Assistant:** Students may elect this class in which they assist the instructor. Both males and females are needed for each class of every hour. This class is especially important for students considering the fields of physical education or athletic training. Students will be expected to lead exercises and assist in teaching various skills.

**PE WAIVER:** to qualify for a 0.5 credit waiver, a student must have participated in 3 seasons of JV or Varsity sports.

### **Math Program – Acceleration or "Doubling Up"**

In order to accelerate his/her math program, a student may elect to enroll in two math courses simultaneously. The following criteria must be met in order to do so:

1. Earn semester grade of B or better in previous math course
2. Carry a cumulative GPA of 3.0 or better in all classes
3. Obtain written permission from most recent math instructor
4. Obtain permission from the Committee

### **Math Program – Learning for Mastery**

The new Michigan Merit Curriculum requires that all graduates, beginning with the class of 2011, must successfully complete eight Trimesters of mathematics through Algebra II. In order to meet this very high standard, we must ensure that students are mastering the content standards in mathematics before moving to the next level. For this reason, a student who fails a math course will be required to re-enroll in that course. If necessary, a student may enroll in simultaneous math courses to complete his/her graduation requirements on time.

### **Dual Enrollment**

There are qualifying requirements that must be met in order to Dual Enroll. Please see the high school counselor for more details. To qualify for a 0.5 credit waiver, a student must have participated in at least 3 seasons of JV or Varsity sports.

### **Genesee Career Institute (GCI)**

Beginning in the fall of 2010, courses at the GCI Technology Center was made available to Madison students. A brochure of available courses is available through GCI, Madison, or can be found on the internet at <http://www.gasctech.us/>. Applications for Technology Center courses are available through GCI, downloaded from their website, or at the high school counseling office, and can be returned to either GCI or Madison for processing. Students will not be responsible for course content for their GCI classes that meet concurrent with Madison classes, however, their class schedule will be adjusted to ensure that they attend core academic classes for the duration of their tenure at the technology center. Starting in the 2015-2016 school year, students who attend the GCI must meet the program level requirements set by the GCI, be on track for graduation, and demonstrate proficiency in district testing.