



COURSE LISTINGS:

Art & Design

English/Language Arts

Mathematics

Social Studies

Science

Foreign Language

Other





ART & DESIGN

Fundamentals of Art

Students will develop the foundational skills needed to communicate ideas visually while developing understandings about the contributions of various artists/craftsmen to their cultures. Emphasis is placed on observational drawing and exploring composition and design in the art of various cultures using drawing, painting, and 3-D media. Students will be encouraged to keep a sketchbook and a portfolio.

Foundations of Technology

Students will be provided opportunities to understand ways that art and design concepts can be used for visual communication and presentation. They will study advances in technology and use technological applications with traditional art tools for developing purposeful visual products.

Fashion I

Students build a foundation this year with an introduction to the fashion industry. The primary focus for students is learning fashion history and the principles of design including design thinking and color theory. Students are given design challenges to help them learn the design thinking process, which includes research, brainstorming, prototyping, pitching and revising.

By the end of the year, students should be comfortable with using the design thinking process to research and create mood boards, solve design challenges, pitch their designs, and revise their sketches. In addition, students will have a basic foundation for sewing, including the appropriate use of tools, techniques and technology. This knowledge will aid students in producing a book of samples that demonstrates a variety of sewing techniques that will be used during year two of garment construction.

Fashion II

Fashion Design students will focus on garment construction, applying techniques they learned in the first year. A variety of projects will give them experience with different fibers, fabrics and textures as well as additional sewing techniques and flat pattern designing. Students work towards defining their goals for a future in the design industry and networking with professionals. Throughout the course of the year, students will generate imaginative ideas, develop craftsmanship and style to assist with garment construction and portfolio development.



Fashion III

Emphasis in year three is on developing a strong portfolio, which includes five to seven garments. Students will begin the year with advanced garment construction techniques. Students will gain real world experiences by participating in fashion shows, galleries and costuming production. Upon the completion of three years in the fashion design program, students will have gained confidence by participating in projects related to personal experiences, presenting their work, interviewing and applying for college and career opportunities and working with professionals.

Introduction to Construction Design and Management & Principals of Construction Design

Throughout year one, students will develop a foundation in architectural concepts and will apply those concepts to the design process through engaging projects. Students build knowledge with the transformation from 2-D to 3-D thinking through a series of challenges and projects that promotes experimentation and revision while reinforcing the design process and architectural drawing skills. Emphasis on experimentation and revision will add purpose to planning and attention to precision, as students construct increasingly complex models in a variety of materials.

By the end of the year, students will have completed observational drawings, sketches and cross-section drawing exercises to develop the skills necessary for years two and three. In addition, students will learn the basic drafting skills through orthographic and oblique drafting that focus on honing technical abilities.

Advanced Design and Three Dimensional Modeling

The emphasis, in year two, is about building on the skills developed during year one. It formalizes the 2-D to 3-D thinking and the spatial concepts, ordering principles, organizational methods and essential vocabulary of the previous course while presenting work in a more focused context. Throughout the course of the year, students will research the four primary influences responsible for the human experience of the built environment: dimension, composition, material and community-based projects.

Student projects include real world application of community-based projects, and the exploration and construction of forms as they refine their drafting skills through more complex challenges. By the end of the year, students will have begun compiling their portfolios and started the exploration of digital drafting technology including AutoCAD and Revit.



Advanced Construction Management

In year three, students will continue their work in AutoCAD and Revit as they further develop their technical, college and career skills. Students will also work towards finalizing portfolios and narrowing their focus as they develop capstone projects that showcase their abilities and sensibilities in one of the fields covered by Construction Design Management. Students will be planning out their next steps for a future career in architecture by researching college programs, trade schools and internships. In addition, continued studio time will help develop and refine the skills necessary for whichever path is chosen.

Principles of Arts, Media and Commercials

Students build a foundation this year in GD/IMP. The primary focus for students is on learning both Adobe Illustrator and Adobe Photoshop. Necessary skills embedded in the curriculum throughout the year include: creating multiple sketches of ideas, critiquing one another's work, both with and without their teacher, proper saving of files and treatment of the computers, pitching a design, seeking outside inspiration and feedback, and more.

By the end of the year, students should be very comfortable with giving and receiving feedback, adjusting their work, and creating several rounds of designs to reflect their improvements. Students build exposure by designing icons, typography, illustration, hand-lettering, basic digital photography, photo editing and manipulation, screen- and relief-printing, and animated GIFs.

Interactive Media Production

The juniors of GD/IMP start to specialize in various software and design sensibilities. In this year, students build an advanced skillset with Adobe Photoshop and Illustrator and begin expanding their knowledge with Adobe Premiere Pro, Flash, and After Effects, and with an introduction to InDesign. Heavy focus is spent junior year on helping the students to determine their goals for the future and what they intend to do past high school, with field trips built in to visit at least two colleges.

Students build professionalism throughout the year, keeping a process binder, and finishing out the year with a unit focusing on designing resumes and business cards. Student projects include: designing five-year plans, self-branding and promotion, digital illustration, poster design, photo manipulation and editing, video shooting and editing, screen- and relief-printing, and animation.



Graphic Design III

Students in the senior year of GD/IMP focus on building their portfolios with more design work before November college applications. They start the year with a branding project to create promotional materials, then move into several fast-paced projects before the end of November which will add to their portfolio. Student projects include: creating branding materials, animation, illustration, video editing, and screen print t-shirts.

Graphic Design IV

They end the year with several fast-paced projects, which will add to their portfolio. Student projects include: creating branding materials, animation, illustration, video editing, and screen print t-shirts.





ENGLISH/LANGUAGE ARTS

English I

The English 1 program provides a balanced program of reading, writing, speaking, listening, grammar, usage, and mechanics skills within the context of literature. Participating in a variety of integrated, student-centered, interdisciplinary activities, students learn to process information efficiently, examine ideas critically, and express themselves effectively.

Honors English I

The English 1 Honors program introduces several approaches to literary criticism which students use to examine the universal themes expressed in a variety of genres and forms from both early and modern literature. Open-ended and structured writing experiences, significant research opportunities, and frequent oral and written activities ensure the continued growth in all major skill areas.

English II

The English 2 program is an integrated language arts program of literature, composition, grammar, usage, and mechanics focused on developing awareness of various world cultures as expressed through literature. The program continues developing skills in reading/interpreting, writing, listening, speaking, language, thinking, and research through the study of a variety of literary genres.

Honors English II

The English 2 Honors program is organized thematically to present the universality of the search for meaning in society through its expression in a variety of cultures and historical time periods. Research papers, frequent open-ended and structured writing experiences, and specific attention to syntactical structures, usage, and mechanics furthering the development of composing and language skills will be taught.

English III

This course provides a balanced program of reading, writing, speaking, listening, grammar, usage, and mechanics skill development within the context of an expanded and updated canon of American literature reflecting the cultural and ethnic mosaic of American society.



AP English Language and Composition

AP English Language and Composition integrates composing, interpreting, and language experiences growing out of a largely chronological study of American literature. There are opportunities for critical and analytical examination of nonfiction, rhetorical and stylistic analysis, the study of argumentation, and language study in relation to the developing American English and the individual writer's style. Students complete formal research papers.

AP English Literature and Composition

This course is a multi-layered study of literature that includes an examination of the political, social, cultural, and philosophical contexts that helped shape the dominant writers of each major literary period. A unifying thread throughout is a focus on the growth and development of the English language from its Anglo-Saxon roots to our modern systems of grammar. Students compose a variety of analytical and creative pieces as they continue to develop and refine their own writing style.

College and Career Readiness English

The course will begin by focusing on positive belief systems about academic success. Students will then address college and career connections beginning with an overview of national standardized tests for college entrance. The course will also review study skills and the basics for managing time. Students will end the course with an analysis of student transcripts and resume writing skills.



MATHEMATICS

Intensified Algebra I

Algebra I provides the foundation for a program in advanced-algebra based mathematics courses. This course completes the study of linear functions and introduces exponential relationships and functions. Students also complete an in-depth study of quadratic functions.

Honors Intensified Algebra I

Algebra I provides the foundation for a program in advanced-algebra based mathematics courses at a more rigorous level. This course completes the study of linear functions and introduces exponential relationships and functions. Students also complete an in-depth study of quadratic functions.

Geometry

This course develops the important ideas of Euclidean geometry from a transformational approach, the analytic-synthetic method of proof, and lays a foundation for subsequent courses in mathematics and science. High school geometry is primarily deductive and employs methods of logical reasoning.

Honors Geometry

This course develops the important ideas of Euclidean geometry from a transformational approach, the analytic-synthetic method of proof, and lays a foundation for subsequent courses in mathematics and science at a more rigorous level. High school geometry is primarily deductive and employs methods of logical reasoning.

Intensified Algebra II

This course extends the study of linear, quadratic, and exponential functions, to include polynomial, rational, radical, and logarithmic functions. Algebra II requires the use of a graphing calculator.



Honors Intensified Algebra II

This course is taught at a rigorous level. Algebra II extends the study of linear, quadratic, and exponential functions, to include polynomial, rational, radical, and logarithmic functions. Algebra II requires the use of a graphing calculator.

Pre-Calculus

Pre-Calculus is an advanced course for highly capable mathematics students. The course combines selected topics from function theory, linear algebra, trigonometry, and analytic geometry in preparation for Calculus I and II. Pre-Calculus requires the use of a graphing calculator.

AP Statistics

This course is designed to acquaint students with the basic techniques of descriptive and inferential statistics. Calculator-assisted applications of statistical topics to business, biology, engineering, industry, and the social sciences will be featured.





SOCIAL STUDIES

United States History

A thematic chronological format beginning with the Reconstruction era provides the structure for this study of U.S. History that helps students understand the evolution and relevance of their national heritage. Themes are presented chronologically, emphasizing more recent U.S. History and development of historical thinking skills.

Honors United States History

A thematic chronological format beginning with the Reconstruction era provides the structure for this study of U.S. History that helps students understand the evolution and relevance of their national heritage at a rigorous level. Themes are presented chronologically, emphasizing more recent U.S. History and development of historical thinking skills. Opportunities for analysis of historical issues and for research are imbedded within this course.

American Government

This course helps students develop skills and acquire insights essential to an understanding of American political, economic, and social life at the national, state, and local levels. Attention will be on political, economic, and social issues and preparation for responsible citizenship.

Honors American Government

This course is a study of American political, economic, and social issues in national, state, and local government. In addition to factual content, the processes, institutions, and values of the American political, economic, and social systems are analyzed. Students apply understanding of government by completing ongoing issues analysis projects.

African American History

This case study of the minority experience in American society is designed to develop an understanding of the consequences, causes, and character of the African American experience. The course provides a variety of academic and cultural activities, beginning with a historical and cultural understanding of Africa. It examines the cultural impact and economics of the slave trade, the development of the African American culture, and the continuing struggle for freedom. Appropriate political, social, and



economic issues will be presented for analysis. The study of African American achievements will be reinforced with field experiences.





SCIENCE

Biology

Biology provides students with an understanding of living things in their environment and how molecules and cells provide for the basis of life. This course provides a Service Learning component.

Honors Biology

This course provides a high-level introduction to biology using a college textbook. Reading the textbook, original articles, and historical papers is required. A project or term paper may be required.

Physics

This course is designed for students who intend to specialize in any kind of technical or scientific work. The course includes laboratory investigations in the study of motion, force, energy, momentum, electricity, magnetism, light, and relativity. Problem-solving and laboratory skills are emphasized.

Honors Physics

This program includes all topics from Physics as well as topics selected from friction, electromagnetic induction, and modern physics. Students use mathematics to solve vector problems, prove and derive formulas, and perform error analysis in laboratory work. Independent problem solving and supplemental readings are included. Problem-solving and laboratory skills are emphasized.

Anatomy and Physiology

Anatomy and Physiology provides a comprehensive overview of human body systems and stresses both the structure (microscopic and macroscopic) and functioning of those systems. Reading the textbook, original articles, and historical papers are required.

Honors Anatomy and Physiology

Anatomy and Physiology provides a rigorous and comprehensive overview of human body systems and stresses both the structure (microscopic and macroscopic) and functioning of those systems. Reading the textbook, original articles, and historical papers are required. A project or term paper may be required.



FOREIGN LANGUAGE

Spanish I

This introductory course is designed for students with little or no previous study of Spanish. Some students in class might have studied Spanish in middle school, but have not grasped some of the important structures of the language. This course teaches basic language patterns and vocabulary. Repetition and comprehensible input are important components of this course. Focus is on all four language skills: listening, speaking, reading and writing.

Culture is an integral part of the course and is introduced through the use of media, games, adapted readings and class discussions. In addition to written tests and quizzes, students may also be assessed by means of aural activities. Homework assignments are an integral part of this course; they reinforce concepts/skills introduced and explored in class, which enable students to participate in class in a meaningful way. Completion of homework assignments is a must. Active participation is required.

Spanish II

Students continue to further develop and improve listening, speaking, reading and writing skills. Emphasis is placed on comprehension of Spanish, as well as reading and writing practice in the target language using a variety of activities incorporating familiar vocabulary and structures. Supplementary materials are introduced to enhance language use. Aspects of contemporary Spanish culture are introduced through the use of media, games, and adapted readings and in small or large group discussions. In addition to written/oral tests and quizzes, students are assessed using a variety of formats: oral dialogues, presentations, written compositions and other means.

Homework assignments are an integral part of this course as they not only reinforce concepts and skills that are introduced in class, but also enable students to participate in class discussions. Completion of homework assignments is essential to success in this course. In an effort to better prepare students for further honor classes and the Advanced Placement Course, it is imperative that students in Level 1 exhibit diligence with regard to attitude and work ethic. Continuous effort to use the target language is essential. Active participation is a must!



OTHER

Personal Fitness

In the Fitness Foundations/Fitness Mastery course, students will receive instruction and information about personal fitness components and self-management skills. With this information, students will be able to integrate the knowledge to design, plan, and perform an individualized fitness program based on personalized fitness goals. A variety of evidence-based assessments and physical activities related to skill performance, fitness, and health are analyzed and explored.

The course will concentrate on concepts involving cardiorespiratory/aerobic fitness, muscular strength and endurance, body composition, and flexibility. Specific aspects of health-related fitness components will be explained and applied to activities. As students will extend and refine their abilities, they will also explore and participate in individual and team sports, along with adventure and rhythmic activities as related to personal fitness. Students will learn how to adjust their personal fitness plans as their interests and physical abilities change throughout their lives.

Health Education I

This course will focus on developing knowledge and skills to address health and wellness issues affecting youth in their early high school years, as well as throughout life. Youth risk behaviors cited by the Center for Disease Control will be addressed. These include tobacco use; dietary patterns contributing to disease; inadequate physical activity; sexual behaviors that may result in HIV infection, other sexually transmitted diseases (STDs), and unintended pregnancy; alcohol and other drug use; and behaviors that result in unintentional injury.

Yearbook I

Yearbook I develops the skills necessary to produce the school yearbook; copy writing, photography, layout, budgeting, promotion, and art design are addressed.