

# ELECTIVE OFFERINGS 2018-2019

## VISUAL ARTS

2D / 3D ART- Beginning level class; experience with two & three dimensional art work; Learn basic skills of drawing, painting, clay, & sculpture.

**\*2D/3D Art is a Pre-requisite for all other Art electives**

(See Ms. Nabb (Rm 406), Mr. Gillespie (Room 407), or Ms. Kim (Rm 408)

Draw/Paint I and Draw/Paint II - Drawing & painting techniques with chalk, charcoal, ink, pencils, acrylic, & mixed media

Graphic Design I and II - Learn graphic design while using a computer

Photography III - Camera/lens theory & darkroom operation; Camera required; ePhotography

Photography IV - Digital photo techniques; Photoshop; SLR digital camera required; ePhotography

Sculpture I and II - Advanced work with clay (pottery) & sculptures

AP Studio 2D, Draw, 3D and Art History— see description in AP section

## DRAMA

**\*AUDITION, APPLICATION, or TEACHER RECOMMENDATION required (Ms. Owens—Theater)**

*Some after school and weekend work/rehearsals required*

Introduction to Theater: Beginning level class; theater history, acting, & technical skills involved in production

Acting I\*: Develop skills in role analysis, character development, vocal techniques, & communication of text

Advanced Drama Workshop\*: For experienced performers & includes the design & implementation of technical aspects of production

Musical Production\*: Performers sing, dance, and act while working on two musicals for the year.

Technical Theater\*: Construct sets, props, costume, make-up, lighting, sound, and stage management



## PERFORMING ARTS

**\*AUDITION or TEACHER RECOMMENDATION required for courses above Beginning Band (Mr. Gilbert— Band Room):** Beginning, Intermediate, Advanced, and Mastery Band, Intermediate and Advanced Instrumental Ensemble

Chorus (Ms. Greer—Rm 505): Beginning, Intermediate, Advanced, Mastery Choral Ensemble

Orchestra (Ms. Lansou or Ms. McCombe - Rm 508): Beginning, Intermediate, Advanced, or Mastery Chamber

Dance (Ms. O'Leary—Rm 504): Beginning, Intermediate, Advanced

Guitar (Mr. Lambeth—Room 317): Intermediate & Advanced—Music reading skills, playing, picking techniques, tuning, chords, rhythm, and strumming

Beginning Piano (Ms. Greer—Room 505): Basic piano skills, music theory, performance etiquette, solo and ensemble etiquette



## GENERAL FINE ARTS

Beginning Music Theory: Explore key signatures, meter, tempo, harmonic progressions, and develop sight-singing, musical dictation, and analysis skills. Some formal music training is suggested.

Music Technology: Beginning, Intermediate, Advanced, and Mastery. Basic MIDI sequencing applications and electronic digital music production.

## ENGINEERING

Foundations of Engineering and Technology: Introductory course for all other engineering classes; Study various careers in engineering with a focus on CAD based programs and design

Engineering Concepts: Students learn about areas of specialization within engineering and engineering design and how to apply engineering tools and procedures as they complete hands-on instructional activities. (Pre-requisite is Foundations of Engineering)



## PHYSICAL EDUCATION

**\*Intro to Life Fitness is a pre-requisite for Body Sculpting, Weight Training, and Adv Personal Fitness**



Personal Fitness & Health: Required courses for graduation; Personal Fitness requires dressing out everyday.

Body Sculpting\* (Girls only): Basic instruction on methods to condition the body; Lifting weights & physical fitness training

Weight Training\*(Boys only): Focus on building strength & endurance; requires lifting weights & physical fitness training

Team Sports: Students learn the history, rules and basic skills of two or three of the following team sports: basketball, volleyball, soccer, speedball, touch or flag football

Sports Medicine: Learn to evaluate and treat athletic injuries, and handle emergency situations. This class allows you the opportunity to obtain CPR certification. Ten training hours outside of class is required.

## MARKETING & INFORMATION TECHNOLOGY

Intro to Digital Technology: Explore emerging technologies that impact the digital world, one's personal life, and society

Computer Science Principles: Various forms of technologies will be used to expose students to resources and application of computer science.

Embedded Computing: This course will teach students how to program and use small microcontrollers in an embedded control environment. Students will build working circuits and observe them in operation.

AP Computer Science: Counts as 4th year Science! College level course to develop computer programs using JAVA; strong math skills.

Marketing Principles: Creative, fun class about the basics of marketing in a hands on environment.

Marketing Management: Students build on skills learned in Marketing Principles like pricing, promotion, entrepreneurship, and management while running the school store—the Dawg House. (Pre-requisite is Marketing Principles) For application, See Dr. Huffman—Rm 400.

Intro to Sports & Entertainment Marketing: Students will develop managerial and analytical skills in sport/event marketing. (Pre-requisite is Marketing Principles)

Intro to Fashion Marketing: Students will learn terminology and basic elements of fashion including an historical perspective and the movement of fashion trends, leaders, followers, and industries. (Pre-requisite is Marketing Principles)

Adv. Fashion Marketing: Students will develop skills necessary for managing the following elements: pricing, visual merchandising, advertising, special promotions, professional sales, and customer service. (Pre-requisite: Marketing Principles and Intro to Fashion Mktg)

Adv. Sports & Entertainment Marketing: provides students the opportunity to develop managerial and analytical skills. (Pre-requisite: Marketing Principles and Intro to Entertainment & Sports Mktg)

## CULINARY ARTS, EDUCATION, & ROTC

Introduction to Culinary Arts: Fundamental food preparation terms, concepts, and methods, emphasizing safety, sanitation, and operation procedures.

Culinary Arts I and II: Building from techniques and skills learned in Introduction to Culinary Arts, this course involves in-depth knowledge and hands-on skill mastery (Pre-requisite for Culinary Arts I is Intro to Culinary Arts; Pre-req for Culinary Arts II is Culinary Arts I)

Examining the Teaching Profession: Students study, apply, and practice the use of current technologies, effective teaching & learning strategies, the creation of an effective learning environment, & the creation of instructional opportunities for diverse learners and students with special needs.(11-12 graders)  
-See Mrs. Grosso Rm 706

Jr ROTC—Air Force: Provides leadership training and an aerospace science program. Courses include history of air power, national defense, aero-dynamics and space operations, and cadet corps management.

**\*\*ALL COURSE OFFERINGS ARE SUBJECT TO CHANGE BASED ON STUDENT INTEREST & STAFFING\*\***

# ELECTIVE OFFERINGS 2018-2019

## ACADEMIC ELECTIVES

World Geography: Understand the roles, responsibilities, & relationships of people & places throughout the world.

Psychology/Sociology: (11th/12th graders) *Psych* introduces you to understanding your behavior & the behavior of others; *Sociology* studies human society in combination with social behavior.

Math of Finance: Teaches the fundamentals and importance of saving, budgeting, debt, and credit. The class teaches the mathematics of compound interest and tax calculations. Also emphasizes being a good consumer in relation to insurance, retirement, and giving.

Yearbook: Levels - 1, 2, or 3; Involves the production & sale of the school's yearbook; Application required - See Ms. Longe, Rm 121B.

Competitive Speaking & Debate/Philosophy: Debate trains students to express their individual talents in speaking. Competitive speaking with focus on extemporaneous speaking, original oratory, & oral interpretation. *Philosophy* introduces students to philosophy and its history through topics found in classical philosophical writings, such as the nature of truth and knowledge, mind and body, freedom and determinism, right and wrong, as well as many others. We will also explore how knowledge is formed by the different "ways of knowing" and how those ways are expressed, organized and connected. **(Grades 11-12)**

Foreign Language: Spanish, French, German, & Latin. Learn skills related to reading, writing, listening, & speaking. Study about cultures & customs & become globally aware of other nations.

## SCIENCE ELECTIVES

*ALL science electives meet the 4th year science credit. Successful completion of biology and chemistry is strongly recommended.*

Anatomy & Physiology: Learn about the structure and function of the human body through hands on activities and dissections. This course is a primer for anyone planning to go into a healthcare field.

Oceanography: Must have also completed Biology.

Explore the vast diversity of marine organisms and habitats through labs and other challenging activities.

BioEngineering: Integrates the fundamental concepts of life and physical sciences through lab intensive activities. Students study measurement techniques, solution preparation, sterile techniques, microscopy, and growing/maintaining bacterial and fungal cultures.

AP Environmental Science: see description in AP section

Gifted Internship: Gifted students report to Ms. Nicely each day and then leave campus for work programs or throughout the community. Application is required! See Ms. Nicely—Rm 102.

Gifted Directed Studies: Gifted students report to Ms. Nicely each day and then leave campus to work on their chosen in-depth research project. Application is required! See Ms. Nicely—Rm 102.

Library Science: Learn the key concepts of how to run a school media center. 11th & 12th graders only; See Mr. Stewart in the CLC .

Peer Leadership: Serve as office support, ambassadors, and role models. Students are also required to serve as freshman mentors or peer tutors. Application is required! See Ms. Baker-Rm 918.

Comparative Religions: Meets off campus. See Ms. McHugh (409D)

SAT Prep: Students will practice thinking strategies, build verbal competence and math reasoning, and complete practice tests.

## WORK BASED LEARNING

Work Study 1: Application required! Students will be released early from school for **1, 2, or 3 periods**. Must have a stable job and work at least 10 hours—20 hours per week depending on number of periods enrolled in WBL. See Dr. Huffman—Rm 400.

## ADVANCED PLACEMENT COURSES

All AP courses are taught & evaluated at the college level. **These courses will require 5-10 hours of study per week and the commitment is for the entire school year.** AP Exams will be administered in May with the opportunity to earn college credit. It is the expectation that if you take the course, you take the AP exam. The AP course of study is based on a national curriculum.

AP Art History: Explore architecture, sculpture, painting, and other art forms within their historical and cultural context.

AP Studio Art (2D Design/3D Design/Drawing Portfolio): Submission of portfolio required; Works could include graphic design, typography, digital imaging, photography, painting, printmaking, & more.

AP Biology: **4th year Science!** Successful completion of biology required; College-level biology coursework; advanced labs; analyze & explain the "whys" of biological science.

AP Calculus AB: Topics include limits, derivatives & integrals of algebraic & transcendental functions, & continuity.

AP Calculus BC: In-depth coverage of limits, derivatives & integrals of algebraic & transcendental functions, & continuity.

AP Chemistry: **4th year Science!** Successful completion of biology and chemistry required; Advanced lab activities that integrate mathematical problem solving with chemical concepts.

AP Computer Science: **4th year science!** Strong math skills required; Intense study of structured programming in Java & advanced programming analysis.

AP Environmental Science: **4th year science!** Successful completion of biology and chemistry recommended; College level course work that covers ecology, energy resources & conservation, pollution, & bio-technology.

AP European History: Successful completion of World History required; Basic chronology of major events & trends in Europe; time period focus from the Renaissance to the present.

AP French: Develop speaking, reading, writing, & listening skills, as well as continue the acquisition process of French cultures. This class is conducted in French.

AP German: Continue developing speaking, reading, writing and listening skills and acquiring understanding of German-speaking cultures. Successful completion of German 3 and an AP summer assignment are required. This class is conducted in German.

AP Government: One semester (12th graders); Examine the structure, functions, & inter-relationships of various levels of government.

AP Macroeconomics: One semester (12th graders); Study of national income, price determination, & economic performance & growth.

AP Human Geography: Study of patterns & processes of human languages, religion, politics, & population. *Great first course for being introduced to the rigors of the AP Curriculum.*

AP Language: American Literature (11th graders): An in-depth focus on critical reading, writing, and thinking; discussion expected. \* Students can choose to take course with musical theater component as well

AP Latin: Read, translate, analyze, understand, and interpret Latin.

AP Literature (12th graders): Deepen the understanding of the ways writers use language to provide both meaning & pleasure for their readers; Focus on critical reading, writing, & thinking.

AP Music Theory: Emphasis is placed on harmonic structure of music & aural analysis of harmony.

AP Physics I: An in-depth study of matter in motion; students should have a strong math background. Precalculus is a co-requisite and 85% or higher in Algebra II.

AP Physics C: **4th year Science!** Calculus-based problem solving at a high level; study mechanics, electricity and magnetism. Pre-req: AP Physics 1

AP Psychology: Examine the scientific nature of psychology, as well as brain & human development & function; behavioral processes.

AP Spanish Language: Develop speaking, reading, writing, & listening skills, as well as continue the acquisition process of Hispanic & Latin cultures. This class is conducted in Spanish. **It is highly recommended that you enroll in level 4 before taking AP.**

AP Statistics: In-depth experience in statistical concepts & methods.

AP US History: Successful completion of World History required; Factual knowledge and analytical skills in the interpretation of the history of the U.S. from the 1600s through the 1990s.

AP World History: Builds on an understanding of cultural, institutional & technological foundations that set the human stage prior to the year 1000.