



DANCE

Ballet I - IV

A progressively intense program through the many technical and historical styles of classical ballet, including barre and center. Ballet classes are highly recommended for any level II and above class. Ballet will use elements from yoga study as well. **Ballet shoes and proper dance attire required. Students must complete one level before moving to the next. Pointe work will be introduced as students are ready with teacher approval. FEE \$15.00**

Ballroom I - IV

Dancers move through levels of proficiency in Intermediate-Full Bronze American, and International style Latin, Swing and Ballroom dance patterns with more technical instruction for performance and competition applications. Students will move through silver level competitive dancing at the higher-level courses. **Shoes and proper dance attire required. Students must complete one level before moving to the next. FEE \$15.00**

Hip Hop I - IV

The purpose of this course is to expose students to “street dancing.” Students will study the history of and cultural implications of the wide array of Hip Hop dance styles. A variety of Hip-Hop techniques and performance styles as well as the origins of the movement will be taught. Students over the years will begin to develop their own style through choreographic projects. **Shoes and proper dance attire required. Students must complete one level before moving to the next. FEE \$15.00**

Modern I - IV

A progressively intense exploration of alignment, acquisition of complex technical skills, collaborative problem solving, dance conditioning, and safe studio practices. Students will learn about Modern dance in its cultural and historical contexts through research and physical experiences, explore exemplary Modern dance founders, works, and artists, employ dance as a healthy life skill, and use Modern dance terminology to develop improvisation and choreographic skills. **Proper dance attire required. Students must complete one level before moving to the next. FEE \$15.00**

Tap/Jazz I – IV

An exploration of the disciplines of technique required for the tap dancer as well as the jazz dancer. Introduction to the styles will include historical references, technical structures and aesthetics of the dance styles while learning and demonstrating safe studio practices. **Proper dance attire and 2 different pairs of shoes required. Students must complete one level before moving to the next. FEE \$15.00**

Pre-Professional Intensive Technique Course I - III

The Pre-Professional Intensive Technique class is designed to challenge the advanced dancer, with the goal of preparing them for a career in dance/a college dance program. Rooted in ballet & modern, with extra focus on jazz skills & progressions (I.e. Leaps & Turns), along with various approaches in conditioning for dance, this course will offer intense training in a range of styles at a very advanced level. **Shoes and proper dance attire required. By Invitation and Application only. FEE \$15.00**

MUSIC

Guitar I – IV

The development of fundamental skills in guitar technique, interpretation, and performance. Basic harmony and composition through advanced technique, ensemble, harmony and composition are taught. Guitar provided. Students must complete one level before moving to the next. Students must complete one level before moving



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to the next. Guitar provided. Required supplies: One audio (gaming style) headset (exact type will be specified by the instructor).

FEE \$50.00

Electric Guitar I-II

Master the electric guitar in this engaging class! Explore essential techniques, iconic solos, fretboard harmony, and improvisation. Perfect for intermediate and advanced players, this course develops skills to play with confidence, creativity, and style while unlocking the secrets behind legendary guitar performances.

Prerequisite: 2 years of guitar and a teacher recommendation.

FEE \$50.00

Keyboard I-IV

Learn to read music, play different rhythms and basic keyboard information. Includes both solo and ensemble performance and assessment as well as written theory work. For students with little or no musical experience to begin. Classes progress in level of difficulty as students improve. Students must complete one level before moving to the next. Required supplies: One audio (gaming style) headset (exact type will be specified by the instructor).

FEE \$25.00

Chorus I - IV

The purpose of this course is for students to develop basic individual and ensemble skills in choral/vocal performance through preparation of varied high school choral repertoire. Emphasis will be placed on healthy and expressive singing, accurate interpretation of notation, and development of critical and aesthetic response to music. Class assessment includes basic music reading skills, music and rhythmic notation, and sight-singing abilities. Required supplies: concert attire.

FEE \$10.00

Musical Theatre Production I-IV

Students must complete one level before moving to the next. Students must have a dance class in their schedule alongside this course. Students will learn techniques in dance, singing, acting and choreography.

FEE: \$20.00

Orchestra I - IV

Students will learn to play the orchestral instrument of their choice: violin, viola, cello, or double bass. Students will learn basic music notation reading through the study of this instrument. Students will play and perform Grade 1 string orchestral literature. Rhythm, pitch, posture, proper instrument position and music vocabulary will be developed. Class assessment includes the playing of individual musical excerpts and theory work, both written and played. Students are required to rent or purchase their instrument through local music stores or online vendors. Required supplies: Method Book *Essential Elements for Strings Book 1*, instrument, rosin, shoulder rest for violins and violas, and a rock stop for cellos and basses. Students will be placed into different levels(beginning, intermediate or advanced) based on prerequisites and teacher discretion.

FEE \$25.00

Band I - IV

Students will learn to play the woodwind or brass instrument of their choice: flute, oboe, bassoon, clarinet, alto sax, tenor sax, trumpet, trombone, baritone or tuba. Students will learn basic music notation reading through the study of this instrument. Students will play and perform Grade 1 band literature. Rhythm, pitch, posture, proper instrument position and music vocabulary will be developed. Class assessment includes the playing of individual musical excerpts and theory work, both written and played. Students are required to rent or purchase their instrument through local music stores or online vendors. Students will be placed into different levels



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(beginning, intermediate or advanced) based on prerequisites and teacher discretion. Required supplies: Method Book *Tradition of Excellence (for your instrument)*, instrument and instrument care supplies.

FEE: \$25.00. Additional rental fees may apply.

Percussion Ensemble I - IV

Prerequisite: One full year of Beginning Band on PERCUSSION or by Audition / Invitation from the Director.

Students will learn to play all percussion instruments, including Snare Drum, Mallets and Timpani. Students will learn basic music notation reading through the study of these instruments. Students will play and perform Grade 1 percussion literature. Class assessment includes the playing of individual musical excerpts and theory work, both written and played. Students are required to purchase their own Vic Firth SD1 General Drumsticks and any gum rubber drum pad. Rental Fees Apply for the use of school owned instruments.

FEE \$25.00

Jazz Ensemble I - IV

Open to HS students by Audition / Invitation from the Director The purpose of this course is to enable students to develop fundamental skills in jazz performance through knowledge of styles and performance techniques of varied jazz and contemporary literature. **Additional fees apply.**

FEE \$25.00

Select Choir I – IV

Open to HS students by audition only. Heavy performance-based class with solo and ensemble singing opportunities. This group is the premier choral group at MSA and will be representing school throughout the community at various public performances, including the Florida MPA competition at the end of the year. Students will learn advanced voice technique, as well as choral singing skills. Class assessment includes advanced music reading skills, music and rhythmic notation, and fast sight-singing abilities. **The purchase of formal competition attire required.**

FEE \$20.00

Commercial Music Ensemble Grade 10-12 ONLY

Requirements: Audition or permission of instructor. The Commercial Music Ensembles provide students with the experience of choosing songs, working with arrangements, rehearsing with a band, and bringing it all together as a cohesive performance. The ensemble draws its material from any style of music that has achieved popularity in the music industry as well as students' original songs. The class contains a small group of vocalists who perform lead and background vocals, and a rhythm section with drum set, electric bass, acoustic and electric guitar, piano, and keyboard. Horn players and other instruments are often recruited for the performances as well.

FEE \$50.00

AICE Music Foundations: Theory, History, and Creativity - Grade 10-12 ONLY (formerly Songwriting I)

Requirements: A minimum of one year of another music elective and recommendation from a music faculty member

AICE Pre-College Music teaches students creative and critical thinking by learning foundational music theory skills as well as an introduction to musical instrument digital interface (MIDI) using digital audio workstations (DAWs) and music notation software to create, mix, and produce original compositions. The curriculum follows a similar framework as a college Music Theory I course in addition to a one-semester college Music Appreciation course. Students will also regularly write reflective essays on topics including music history and appreciation, music theory and composition, and critical listening. **FEE \$50.00**



Music Production I - III (formerly Sound Recording)

Requirements: Audition or permission of instructor.

Music Production is a hands-on sound recording and audio engineering class that partners with Commercial Music Ensemble to make studio-quality recordings of MSA Rocks bands. Students also run live sound for MSA Rocks events. Students learn how to properly set up and use microphones to capture sound into Pro Tools, the industry standard for recording studios all over the world. By the end of this course, students will have professional experience working in a recording studio, live sound, and understand advanced production techniques used to produce professional quality recordings. **FEE \$25.00**

THEATRE

Theatre I-II

9th - 12th Grade

Students must complete one level before moving to the next. The purpose of this course is to introduce students to fundamental skills in the multiple elements of theatre as a collaborative art. The class will include several performance-based projects.

FEE \$25.00

Stagecraft I

9th-12th Grade

For first-time stagecraft students who have never taken a stagecraft class at MSA before at either the middle or high school level. Students focus on developing the basic tools and procedures for creating elements of technical theatre, including costumes, lighting, properties (props), publicity, scenery, and sound. Technical knowledge of safety procedures and demonstrated safe operation of theatre equipment, tools, and raw materials are central to success in this course. Students explore and learn to analyze dramatic scripts, seeking production solutions through historical, cultural, and geographic research. Students also learn the basics of standard conventions of design presentation and documentation; the organizational structure of theatre production and creative work in a collaborative environment; and the resulting artistic improvement. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend or participate in technical work, rehearsals, and/or performances beyond the school day to support, extend, and assess learning in the classroom.

Permission to use power tools required.

FEE \$50.00

Stagecraft II-IV

9th-12th Grade

Prerequisite: Stagecraft I or Stagecraft 8

Students must complete one level before moving to the next. Students focus on the design and safe application of basic tools and procedures to create elements of technical theatre, including costumes, lighting, properties (props), publicity, scenery, and sound. Students develop assessment and problem-solving skills; the ability to connect selected literature to a variety of cultures, history, and other content areas. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend or participate in technical work, rehearsals, and/or performances beyond the school day to support, extend, and assess learning in the classroom.

Permission to use power tools required.

FEE \$50.00



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Acting I-IV

9th-12th Grade

Students must complete one level before moving to the next.

The purpose of this course is to enable students to develop fundamental acting skills and integrate them into individual and ensemble theatrical performances.

FEE \$25.00

Stage Make-up I

9th-12th Grade

The purpose of this course is to enable students to develop knowledge and skills necessary for the correct use of make-up in theatrical productions. The content includes: functions of make-up, tools and material, procedures and application techniques, career opportunities.

Make-up support for all MSA events are furnished by the Stage Make-up classes.

FEE \$75.00

Stage Make-up II

10th-12th Grade

Prerequisite: Stage Make-up I

In this course, students will be able to explore new design opportunities for the stage. Building prosthetics, air-brush, color correction, film and much more! Now that students have a full year of learning all the basics under their belt, they can focus on creating more original looks. Think of all the makeup shows out there that we know and love, students will be able to spend more time creating with hands on projects similar to those.

Make-up support for all MSA events are furnished by the Stage Make-up classes.

FEE \$55.00

Theatrical Improvisation

10th-12th Grade

Prerequisite: Theatre I/II, Acting I, or Performance Equivalent

Through collaboration, communication, and performance activities, students engage in improvisation as a stand-alone art form and as an acting methodology. Study includes short-form and long-form improvisation, stand-up comedy, and sketch comedy.

FEE \$25.00

AICE Drama

10th-12th Grade

Cambridge International Drama encourages learners to develop their skills in performing, devising and researching a wide range of theatrical styles and genres. They learn to communicate with an audience through practical and creative work on performance texts and their own devised material, both as individuals and in groups. Underpinned by theoretical and practical study, they learn to research, analyse, create and interpret, and to become skilled, well-informed and reflective theatrical practitioners who enjoy drama. **It is suggested that AICE Drama doesn't replace a student's theatre course, but rather is used as an accompaniment to the Theatre course(s) they already enjoy.**

VISUAL ARTS

Comprehensive Art

Grades 9 – 12

This course is an introductory level class for students with little or no art training, or haven't had art since 6th Grade. Students will gain knowledge of the use of tools, materials, and equipment, as well as art terminology. Emphasis will be placed on acquiring a working knowledge of the elements of art. Basic drawing and painting skills will be covered, as well as experimentation in 3-D design. **Students with no prior art classes will not be enrolled in any other higher-level course in the Visual Art Department until successful completing this class.**

FEE \$45.00



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Drawing I

Grades 9 – 12

Prerequisite: Successful completion of MS Drawing 1, 2D/3D, Art Survey, or HS Comprehensive Art.

Building on past experience, students will continue exploring the basics of design: line, shape, color, texture, space, and value, which are necessary to communicate a range of subject matter, symbols and ideas. Various tools, vocabulary, artistic elements and history are explored.

FEE \$45.00

Drawing II

Grades 10 -12

Prerequisite: Successful completion of Drawing I. Continuation of Drawing I. Students will focus on observation drawing and a study of life and figure drawing with new materials.

FEE \$45.00

Drawing III

Grades 11 & 12

Prerequisite: Successful completion of Drawing II. Continuation of Drawing II. Students will continue life and observation drawing while focusing on creating their own unique style. A more in-depth application of the elements of art and the principles of design is stressed.

FEE \$45.00

Painting I

Grades 9 -12

Prerequisite: Successful completion of MS Drawing 1, 2D/3D, Art Survey, or HS Comprehensive Art.

An introduction to the many different styles and techniques in painting, with focus on design and production of a painting. Course includes acrylic paint, watercolor paint and building canvas.

FEE \$45.00

Painting II

Grades 10 – 12

Prerequisite: Successful completion of Painting I. A continuation of exploring the media of painting. In-depth famous artist style and study; includes canvas building and framing. Study of the elements of art and the principles of design with individual style as a focus.

FEE \$45.00

Painting III

Grades 11 & 12

Prerequisite: Successful completion of Painting II. A continuation of exploring the media of painting. In depth famous artist style and study; includes canvas building and framing. Study of the elements of art and the principles of design with individual style as a focus.

FEE

\$45.00

Cartoon & Illustration I

Grades 9 –12

Prerequisite: Successful completion of MS Drawing 1, 2D/3D, Art Survey, or HS Comprehensive Art.

In this exciting class, students will dive into the world of visual art through cartooning and illustration! Students will create characters for books, ads, video games, comics, and animation. They'll learn drawing skills, creative thinking, and problem-solving while using different art materials. Topics include character design, concept art, sketchbook projects, and a touch of art history to spark imagination and creativity!

FEE \$45.00



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Cartoon & Illustration II

Grades 10–12

Prerequisite: Successful completion of Cartooning I.

This class expands on the knowledge learned in Cartooning I. Students will explore cartoons and illustration through creating characters for books, ads, video games, and comics. They'll develop drawing skills, creative thinking, and problem-solving while experimenting with various art materials. Topics include character design, concept art, sketchbook work, and an introduction to art history, all aimed at sparking creativity and refining artistic techniques.

FEE \$45.00

Costume Design I

Grades 9-12

Students in costuming class are taught basic sewing techniques of repair, alteration, and construction as they pertain to costuming for the stage. Students construct a basic garment (pajama pants) including pattern reading, layout, cutting, sewing and finishing. Students are responsible for helping with costuming for school plays and assisting actors during evening performances. **Course requires approximately 3-4 evenings per school year to attend school plays.**

FEE \$20.00 for sewing kit, notions and mask materials.

Costume Design II

Grades 10-12

Prerequisite: Successful completion of Costume Design I. Students in Costuming II are taught more advanced sewing techniques and design skills as they pertain to fashion and costuming as an industry. Students read a pattern to create an adult onesie, learn to design start to finish from a script, research major figures in the fashion and costume design industries, and learn to do basic patterning through quilted pillows. **Course requires approximately 3-4 evenings per school year to work backstage and 10 hours of lab time per semester.**

FEE \$20.00 plus additional Costume II fabric required.

Jewelry Making

Grades 9 – 12

Prerequisite: Successful completion of MS Drawing 1, 2D/3D, Art Survey, or HS Comprehensive Art. Students in Jewelry Making will experiment with paper, polymer clay, ceramic clay, wire and metal, leather, glass, wood, fiber and plastic in the creation of jewelry pieces. A main focus will be on the elements and principles of design and how they translate to jewelry. Students are taught terminology and proper use of tools and equipment. Students write self-critiques at the completion of each project.

FEE \$45.00

Puppet Building

Grades 9 – 12

Prerequisite: Successful completion of MS Drawing 1, 2D/3D, Art Survey, HS Comprehensive Art, Music, or Theater. Puppet building is an exciting and challenging class for those interested in learning all kinds of skills needed to build a multitude of puppet styles. Hand sewing, designing, sculpting and construction of a variety of materials are only the start to bringing your unique characters to life! With unwavering dedication, you can bring your unique characters to life and experience the joy of seeing them come to fruition. In this class we build 3 dimensional puppets and learn basic performing skills such as; lip sync, eye focus, entrances and exits to bring the puppets to life. This class calls for commitment, attentiveness, perseverance, and creativity.

FEE \$50.00



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Marionette Building I

Grades 9 – 12

Prerequisite: Successful completion of MS Drawing 1, 2D/3D, Art Survey, HS Comprehensive, Music, or Theater, Art. In this fun and creative Marionette class, students will learn how to make and control their own puppets! They'll discover the basics of building/stringing marionettes and using strings to make them move. Through hands-on activities, students will learn the fundamentals of movement and how to transfer the mechanics of movement via the controller and strings. Marionettes Level I is perfect for kids who love to create, perform and move! This class calls for commitment, attentiveness, perseverance, and creativity.

FEE \$50.00

AP 2D Art & Design includes a Portfolio Lab: Two Dimensional Design Honors

Grades 11 – 12

Instructor approval required. PREREQUISITES: Any High School Level Visual Arts or Digital Arts Class.

The AP 2D Art & Design Portfolio class is for dedicated artists ready to take their skills to the next level! In this course, you'll create a portfolio showcasing your best work, exploring mediums like drawing, painting, graphics, photography, film, game art, illustration, and more. You'll dive deep into the **Sustained Investigation** and **Selected Works** sections of the AP Portfolio, developing a personal theme and refining your strongest pieces. At the end of the year, your portfolio will be evaluated by the College Board, with the potential to earn college credit. This class is designed to challenge you creatively and prepare you for the future of art! **Must be taken with a Portfolio Lab: Two-Dimensional Design Honors.**

AP STUDIO FEE \$50

AP Drawing includes a Portfolio Lab: Drawing Honors

Grades 11 - 12

Instructor approval required. PREREQUISITES: AP 2D Art & Design & Portfolio Development: Two Dimensional Design Honors

Ready to push your drawing skills to the next level? The AP Drawing & Portfolio class is for students passionate about refining their artistic technique and developing a strong, cohesive portfolio. You'll focus on drawing-based mediums like pencil, charcoal, ink, pastels, and digital work while exploring the Sustained Investigation and Selected Works sections of the AP Portfolio. Throughout the year, you'll create a body of work that demonstrates your mastery of drawing skills, creativity, and artistic vision. At the end of the year, your portfolio will be submitted for evaluation by the College Board, with the possibility of earning college credit. **Must be taken with a Portfolio Lab: Drawing Honors.**

AP STUDIO FEE \$50

Portfolio Lab

Grades 11 – 12

PREREQUISITES: Any High School Level Visual Arts Class and Instructor approval. Students work in a self-directed environment to develop a portfolio showing a body of their own work that visually explores a particular artistic concern, articulated, and supported by a written artist's statement. Artists may work in, but are not limited to, content in drawing, painting, printmaking, and/or mixed media that emphasizes line quality, rendering of form, composition, surface manipulation, and/or illusion of depth.

FEE \$20.00



DIGITAL ARTS AND TECHNOLOGY

Animation I

Get ready to bring your imagination to life! In this class, students will dive into the exciting world of animation, learning the secrets behind making characters and stories move. Using professional software, they'll watch awesome demos and tackle fun projects—both structured and creative—where they'll master the basics of digital animation and create their own animated masterpieces!. **FEE \$20.00**

Animation II

Prerequisite: Animation I, passing with 75% or higher grade. Take your skills to the next level! Building on what you've learned, this class will dive deeper into advanced animation techniques and more complex digital projects. Students will explore detailed character animation, refine their storytelling abilities, and learn how to add professional touches using industry-standard software. With hands-on assignments and exciting new challenges, you'll sharpen your creativity, speed, and technical skills, creating animations that stand out!

FEE \$20.00

Digital Design I

This foundational class is your perfect starting point if you're new to digital design and ready to dive into the creative world! You'll get hands-on experience with industry-standard tools like Adobe Illustrator, Photoshop, and InDesign, learning essential techniques to create professional-quality designs. From mastering image manipulation and choosing the perfect colors to exploring typography and desktop publishing, you'll build both technical and artistic skills. By the end of the course, you'll even earn a certification in Adobe software—setting you up for success in the exciting world of digital design! Whether you're designing logos, posters, or digital publications, this class is your gateway to unlocking your full creative potential!

FEE \$20.00

AICE Digital Media & Design

Grades 10 - 12

This dynamic course blends creativity with technology, offering students the chance to explore the world of digital media through hands-on projects. In this class, students will dive into graphic design, video production, web design, and animation, using industry-standard software like Adobe Creative Suite. They'll learn essential design principles, improve their technical skills, and develop a strong portfolio of work. Whether designing eye-catching graphics, creating engaging videos, or building video games, students will gain the knowledge and experience to express their ideas in the digital world and prepare for careers in creative industries! **FEE \$20.00**

Social Media Production

This course is designed to equip students with essential skills for creating and managing exciting digital content! Students will learn how to craft engaging posts for social media platforms like YouTube and Instagram, as well as design eye-catching banners, images, and cover art. The curriculum covers everything from content strategy and storytelling to graphic design, photography, videography, and basic editing techniques. Using Adobe tools, students will create high-quality media that reflects their artistic brand and captures the attention of their audience. By the end of the course, they'll be ready to conceptualize, produce, and evaluate digital content, gaining valuable skills in photography, videography, social media marketing, and content creation. Whether for personal projects or future careers in social media and marketing, students will have the tools to succeed as entry-level content creators! **FEE \$20.00**



Video Game Design I

This course introduces students to the key principles of game and simulation design, focusing on creating engaging gameplay with physics-based game mechanics and exploring 3D rendering techniques. Students will gain hands-on experience using industry-standard tools like Blender for 3D modeling and Unity Developer for game development. The course covers important concepts such as story development, game flow, and interactive media. Students will complete projects that challenge them to think creatively and critically, laying the groundwork for advanced game design studies. **FEE: \$50.00**

Video Game Design II

Prerequisite: Video Game Design I, passing with a 75% or higher grade. In this advanced course, students will build on the skills learned in Video Game Design I, working to refine their technical abilities and game development processes. The focus will be on more complex designs, strategy, and overcoming design constraints. Students will develop well-documented, structured programs while honing their skills through individual projects. By the end of the course, students will be prepared to take the Unity Certified User exam, earning a certification that boosts their career prospects in game design. **FEE: \$50.00**

Yearbook

Prerequisite: 3.0 GPA. Students will undergo a screening process. Being on the yearbook staff is like being the creative masterminds behind the most epic book of the school year! From planning every page to capturing unforgettable moments, students lead the way in deciding the content, conducting interviews, taking photos, writing articles, and designing stunning spreads. Plus, we get hands-on with selling and designing ads, making sure the yearbook is a true work of art. It's an amazing, real-world publishing experience that's all about teamwork, creativity, and making memories that last forever!

AP 2D Art & Design & Portfolio Development: Two Dimensional Design Honors Grades 11 – 12

Instructor approval required. PREREQUISITES: Any High School Level Visual Arts or Digital Arts Class.

The AP 2D Art & Design Portfolio class is for dedicated artists ready to take their skills to the next level! In this course, you'll create a portfolio showcasing your best work, exploring mediums like drawing, painting, graphics, photography, film, game art, illustration, and more. You'll dive deep into the **Sustained Investigation** and **Selected Works** sections of the AP Portfolio, developing a personal theme and refining your strongest pieces. At the end of the year, your portfolio will be evaluated by the College Board, with the potential to earn college credit. This class is designed to challenge you creatively and prepare you for the future of art! **Must be taken with Portfolio Lab: Two-Dimensional Design Honors.**

AP STUDIO FEE \$50, PORTFOLIO DEVELOPMENT FEE \$20.00

AP Drawing & Portfolio Development: Drawing Honors

Grades 11 - 12

Instructor approval required. PREREQUISITES: AP 2D Art & Design & Portfolio Development: Two Dimensional Design Honors

Ready to push your drawing skills to the next level? The AP Drawing & Portfolio class is for students passionate about refining their artistic technique and developing a strong, cohesive portfolio. You'll focus on drawing-based mediums like pencil, charcoal, ink, pastels, and digital work while exploring the Sustained Investigation and Selected Works sections of the AP Portfolio. Throughout the year, you'll create a body of work that demonstrates your mastery of drawing skills, creativity, and artistic vision. At the end of the year, your portfolio will be submitted for evaluation by the College Board, with the possibility of earning college credit. **Must be taken with Portfolio Lab: Drawing Honors.** Let your creativity soar! **AP STUDIO FEE \$50, PORTFOLIO DEVELOPMENT FEE \$20.00**



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Portfolio Lab

Grades 11 – 12

This Lab is taken with Students work in a self-directed environment to develop a portfolio showing a body of their own work that visually explores a particular artistic concern, articulated, and supported by a written artist's statement. Artists may work in, but are not limited to, content in drawing, painting, printmaking, and/or mixed media that emphasizes line quality, rendering of form, composition, surface manipulation, and/or illusion of depth.

FEE \$20.00

PHYSICAL EDUCATION

HOPE - Course required for Graduation

The purpose of this course is to develop and enhance healthy behaviors that influence lifestyle choices and student health and fitness. **MSA PE uniform required and sneakers required.**

FEE \$10

Tae Kwon Do 1 - 4

Learn basic and advanced self-defense skills, physical fitness, self-discipline and sports competition in this traditional martial art. **TaeKwonDo uniforms are required and available in the school store.**

FEE \$10

Judo 1 - 2

Learn basic and advanced grappling techniques, physical fitness, self-discipline and sports competition in this traditional martial art. **Judo uniforms are required and available online.**

FEE \$10.

Physical Education and Sport 1 - 2

The purpose of this course is to enable students to develop knowledge and skills in a variety of physical education activities and sports, with a focus on staying fit throughout your lifetime. Content of this course will include history, terminology, etiquette, rules, correct techniques, strategies, and physical benefits. Physical assessments and knowledge assessments are included. **MSA PE Uniform and sneakers required.**

FEE \$10



ACADEMIC ELECTIVES

Career and Technical Education Programs

Medical Arts Academy

Medical Skills and Services 9th - 12th Grade **(Must have completed or be enrolled in Biology)**

The purpose of this course is to assist students in making informed decisions about their future academic and occupational goals and to provide information regarding careers and skills in the Medical Arts Academy. The content of this course includes, but is not limited to: employability and communication skills, legal and technological aspects of health care, medical mathematics, services provided by health science professions, mental health and wellness, occupational safety, and basic health science skills. **FEE \$50.00**

Health and Science Foundation Grade 10 - 12

This course is part of the Medical Arts Academy designed to provide the student with an in-depth knowledge of the healthcare system and associated occupations. Emphasis is placed on communication and interpersonal skills, use of technology, ethics and the development of critical thinking and problem solving skills. Students will also learn first aid skills and demonstrate the measurement of vital signs. Students may shadow or interact with professionals throughout the course.

Business and Arts Management Program

Career Explorations and Technology 9 - 10 Grade

During this course students will focus on who they are, what they want to do, and how they can get there. Students will reflect on their learning styles, leadership styles, and interests. They will refine their skills of time management, organization, public speaking, note taking and other skills important to student success. They will investigate career fields that are matched with their interests. This study will include job responsibilities, postsecondary education requirements, and job outlook. In addition, students will learn how to write a resume, search for a job, and participate in an interview. After they have identified potential career fields, students will research the postsecondary education necessary for their desired career, including the institutions offering the training/degree program, registration requirements, the application process, financial aid, and scholarships. When students have a clearer picture of life after high school, they will be better prepared to plan their life in high school. The activities in this course will help students organize the courses they will take while in high school. This will show students a clear connection between their high school courses and plans for adult life. **FEE \$30.00**

Business Entrepreneurship 10 - 12 Grade

Prerequisite: Career Explorations and Technology. This is the first course of a series of courses in our upcoming new Business Academy. The program is designed for students who may have an interest in starting any type of business in the future. The program will also include an arts management track for visual and performing art students who may want to start a dance studio, sell art, record music, manage a theatre, or any other type of business related to the arts. This course provides instruction in the basic principles of entrepreneurship including the role of the entrepreneur, entrepreneurship as a career, ethics in business, and the principles of marketing, financing, and managing a business. Students will be engaged in identifying strategies and methods for generating a business idea, identifying trends in business, and outlining steps in developing a new business. Students will learn about the different forms of business ownership, including corporations, LLC's, franchising, and licensing. Students will learn the basic principles of accounting, marketing, sales, and developing a marketing plan. This class will include guest speakers and trips to local businesses. At the



AICE Global Perspectives

Grade 11

(required for all students in the Cambridge Programme)

Global Perspectives and Research is a skills-based course that prepares learners for positive engagement with our rapidly changing world. The AICE Global Perspectives & Research aims to encourage young people to think about and explore issues of global significance. The course enables students to explore and make judgments about global issues of relevance and importance to their own lives. It offers learners opportunities to acquire, develop and apply skills in critical thinking, problem solving, research, communication and collaboration. This course encourages the development within young people of global competency – the ability to define a global problem, reflect and take action.

Personal Financial Literacy

Grade 11

Graduation requirement Class of 2027 onward

How money smart are you? The various aspects of finances are not always easy to teach or learn, so this course strives to be a comprehensive, yet simple overview of various financial topics like banking, budgeting and saving, credit and debt, insurance and financial frauds and scams. The outcome is simple: to help students understand the importance of the financial world, including planning and managing money wisely. Areas of study include: sources of income, budgeting, banking, consumer credit, credit laws and rights, personal bankruptcy, insurance, spending, taxes, investment strategies, savings accounts, the stock market, buying a vehicle, and living independently. Based on the hands-on skills and knowledge applied in this course, students will develop financial goals, and create realistic and measurable objectives to be MONEY SMART!

Sociology/Women's Studies

Sociology will provide students with the opportunity to acquire an understanding of group interaction and its impact on individuals. Content to be covered will include, but not be limited to, an understanding of the methods of study employed by sociologists, social institutions and norms, social classes, relationships between the sexes, racial and ethnic groups, the handicapped, societal determinants, group behavior, the socialization process (including the transmission of group behavior), social deviation, social conflict, social roles, social stratification, social participation, and the role of social organizations and institutions (including their interrelationships and interdependence).

Women's Studies will enable students to develop a basic understanding of women throughout history, of individual women who have shaped history and world today, and of contemporary issues that impact the lives of women today. The social studies disciplines included in this course are American and World history, economics, sociology and psychology.

Law Studies/International Law

Laboratory investigations that include the use of scientific inquiry, research, measurement, problem solving, laboratory apparatus and technologies, experimental procedures, and safety procedures are an integral part of this course. The National Science Teachers Association (NSTA) recommends that at the high school level, all students should be in the science lab or field, collecting data every week. School laboratory investigations (labs) are defined by the National Research Council (NRC) as an experience in the laboratory, classroom, or the field that provides students with opportunities to interact directly with natural phenomena or with data collected by others using tools, materials, data collection techniques, and models (NRC, 2006, p. 3). Laboratory investigations in the high school classroom should help all students develop a growing understanding of the complexity and ambiguity of empirical work, as well as the skills to calibrate and troubleshoot equipment used to make observations. Learners should understand measurement error; and have the skills to aggregate, interpret, and present the resulting data.

Legal Systems and Concepts/Court Procedures

The primary content for the course pertains to the examination of the American legal system and the nature of specific rights granted under the United States Constitution. Semester 2 is Court Procedures. The primary



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content for the course pertains to the study of the structure, processes and procedures of the judicial systems of the United States and Florida.

Foreign Languages: *The following meets foreign language requirements for Bright Futures and University Admissions.*

Spanish I-II

These courses will enable students to begin to acquire proficiency in Spanish through linguistic, communicative, and cultural approach to language learning. Emphasis is placed on the development of listening, speaking, reading and writing skills and on acquisition of the fundamentals of applied grammar.

French I-II

These courses will enable students to begin to acquire proficiency in French through linguistic, communicative, and cultural approach to language learning. Emphasis is placed on the development of listening, speaking, reading and writing skills and on acquisition of the fundamentals of applied grammar.

MATHEMATICS

*4 credits required for graduation
(Algebra I, Geometry and two higher)*

Algebra I

In Algebra 1, instructional time will emphasize five areas: (1) performing operations with polynomials and radicals, and extending the Laws of Exponents to include rational exponents; (2) extending understanding of functions to linear, quadratic and exponential functions and using them to model and analyze real-world relationships; (3) solving quadratic equations in one variable and systems of linear equations and inequalities in two variables; (4) building functions, identifying their key features and representing them in various ways and (5) representing and interpreting categorical and numerical data with one and two variables. **Graduation requirement and STUDENTS MUST PASS EOC EXAM TO GRADUATE.**

Geometry

Prerequisite: Algebra I In Geometry, instructional time will emphasize five areas: (1) proving and applying relationships and theorems involving two-dimensional figures using Euclidean geometry and coordinate geometry; (2) establishing congruence and similarity using criteria from Euclidean geometry and using rigid transformations; (3) extending knowledge of geometric measurement to two-dimensional figures and three-dimensional figures; (4) creating and applying equations of circles in the coordinate plane and (5) developing an understanding of right triangle trigonometry. **GRADUATION REQUIREMENT**

Algebra II and Algebra II Honors

Prerequisite: B-average or higher in both Algebra I and Geometry, or permission from the instructor In Algebra 2, instructional time will emphasize five areas: (1) extending arithmetic operations with algebraic expressions to include radical and rational expressions and polynomial division; (2) graphing and analyzing functions including polynomials, absolute value, radical, rational, exponential and logarithmic; (3) building functions using compositions, inverses and transformations; (4) extending systems of equations and inequalities to include non-linear expressions and (5) developing understanding of the complex number system, including complex numbers as roots of polynomial equations. **Requirement for Scholar Designation**

Pre-Calculus Honors

Prerequisite: B-average or higher in Algebra II, or permission from the instructor In Precalculus Honors, instructional time will emphasize six areas: (1) extending right triangle trigonometry to unit circle trigonometry and trigonometric functions; (2) extending understanding of functions to trigonometric; (3) developing



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understanding of conic sections; (4) representing and performing operations with complex numbers and vectors in the coordinate plane; (5) extending understanding of relations in the plane using parametric representations, including polar coordinates and (6) analyzing arithmetic and geometric sequences and series.

Probability and Statistics Honors

Prerequisite: Algebra II - In Probability and Statistics Honors, instructional time will emphasize four areas: (1) creating and interpreting data displays for univariate and bivariate categorical and numerical data; (2) comparing and making observations about populations using statistical data, including confidence intervals and hypothesis testing; (3) extending understanding of probability and probability distributions and (4) developing an understanding of methods for collecting statistical data, including randomized trials. **A statistical calculator is required for this course (TI-83+)**

Mathematics for Data and Financial Literacy

Prerequisite: Successful completion of Algebra I and Geometry. In Mathematics for Data and Financial Literacy, instructional time will emphasize five areas: (1) extending knowledge of ratios, proportions and functions to data and financial contexts; (2) developing understanding of basic economic and accounting principles; (3) determining advantages and disadvantages of credit accounts and short- and long-term loans; (4) developing understanding of planning for the future through investments, insurance and retirement plans and (5) extending knowledge of data analysis to create and evaluate reports and to make predictions.

Math for College Liberal Arts

Prerequisite: Algebra II. In Mathematics for College Liberal Arts, instructional time will emphasize five areas: (1) analyzing and applying linear and exponential functions within a real-world context; (2) utilizing geometric concepts to solve real-world problems; (3) extending understanding of probability theory; (4) representing and interpreting univariate and bivariate data and (5) developing understanding of logic and set theory.

Math For College Algebra

Prerequisite: Algebra II In Mathematics for College Algebra, instructional time will emphasize five areas: (1) developing fluency with the Laws of Exponents with numerical and algebraic expressions; (2) extending arithmetic operations with algebraic expressions to include rational and polynomial expressions; (3) solving one-variable exponential, logarithmic, radical and rational equations and interpreting the viability of solutions in real-world contexts; (4) modeling with and applying linear, quadratic, absolute value, exponential, logarithmic and piecewise functions and systems of linear equations and inequalities; (5) extending knowledge of functions to include inverse and composition.

AP Calculus AB

An AP course in calculus consists of a full high school academic year of work that is comparable to calculus courses in colleges and universities. It is expected that students who take an AP course in calculus will seek college credit, college placement, or both, from institutions of higher learning. It's been said that change is the only true constant. Calculus helps make sense of change by grappling with questions that inspire thinkers from around the globe, across time, and in many disciplines. Can change occur in an instant? When is the next solar eclipse or the turning point for an economy? In AP Calculus AB, you'll develop a deeper understanding of mathematical principles that can help you answer questions such as these. **A scientific calculator with graphing capabilities is required for this course. (TI-84)**



ENGLISH

4 credits required for graduation

English I – IV & Honors

This course is designed to provide integrated educational experiences in the language arts strands of reading, writing, listening, viewing, speaking, language and literature.

AP - English Literature and Composition 12th Grade

Prerequisite: A/P English Language and Composition

AP Literature is a rigorous, college level course. Students will read and analyze a variety of imaginative literature. Close reading of texts will examine structure, style, themes, imagery, symbolism, and tone as well as figurative language with a close focus on historical context. Students will be required to read several novels outside of class and to write about their reading in several different formats including research, analyses and syntheses, expository, and argumentative essays. At the year, students have the option to take the AP Literature and Composition Exam for possible college credit.

AP - English Language and Composition Grades 11th - 12th Grade

Prerequisite: A/B Average in English I/Pre-AP English I or a C in a Dual Enrollment course and Instructor Approval

AP Composition is a rigorous, college level course. The primary goal is to develop the reading and writing skills that students need for college success and for intellectually responsible civic engagement. The reading and writing students do in the course will deepen and expand understanding of how written language functions rhetorically: to communicate writers' intentions and elicit readers' responses in particular situations. The course cultivates the rhetorical understanding and use of written language by directing students' attention to writer/reader interactions in their reading and writing of various formal and informal genres.

Dual Enrollment - Written Communication I (ENC 1101)

Prerequisite: 106 or better on PERT Reading Test AND 103 or better on PERT Writing Test

Credit(s): 3

This course helps prepare students for academic work by emphasizing expository writing, the basics of library research, and the conventions of academic discourse. This is a dual enrollment composition course for which you will earn both high school and college credit. We are going to have an engaging semester that will see us compose in many environments, both in and out of the classroom. Composition is a skill that all students will need to practice so as to succeed in the academic and professional environment. However, one does not merely become a composer, author, writer, or rhetor. Rather, we will practice many different genre-based approaches to composing, including a writing journal that will ask you to compose formal works in unique ways.

Dual Enrollment - Written Communication II (ENC 1102)

Prerequisite: ENC 1101 with a grade C or better Credit(s): 3

This course emphasizes argument, research, and style. As students engage in creative and critical thinking, they learn to support assertions based on audience and purpose; students apply library research, strategies for revision, and peer response. This is a dual enrollment composition course for which you will earn both high school and college credit. We will practice many different genre-based approaches to composing, including learning how famous authors have learned/been inspired to write. This course culminates in a student-lead research paper and presentation that showcases your skills and interests in the college environment.



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Dual Enrollment - Introduction to Literature (LIT 2000)

Credit(s): 3

This course will introduce students to the three major literary forms of prose, poetry and drama as well as to various “schools” of literary criticism. This course is a survey of literature from a variety of time periods. Focusing on prose, poetry, and drama, we will explore the variety and diversity of English literature and beyond. Students will also learn about literary criticism and the various critical approaches to interpretation.

PreAICE English Language

Grade 9

Cambridge IGCSE First Language English (US) learners develop the ability to communicate clearly, accurately and effectively in both speech and writing. They learn how to employ a wide-ranging vocabulary, use correct grammar, spelling and punctuation, and develop a personal style and an awareness of the audience being addressed. Learners are also encouraged to read widely, both for their own enjoyment and to further their awareness of the ways in which English can be used. Cambridge IGCSE First Language English (US) also develops more general analysis and communication skills such as synthesis, inference, and the ability to order facts and present opinions effectively.

AICE English General Paper

Grade 10

The AICE General Paper course encourages learners to develop a maturity of critical thought and argument and a mastery of expression in the English language. These are all skills of great use for university level study. The course draws on topics from across the school curriculum, and learners are able to draw upon knowledge and understanding gained from study of other subjects.

AICE English Language and Literature

The Language and Literature in English syllabus aims to encourage an appreciation of literature in English - prose, poetry and drama- of different genres and from different cultures; and to develop the key skills required to read, analyse and communicate effectively in English. By studying a range of texts, learners understand more about writers’ choices of language, form and structure, and develop their ability to form independent opinions about what they read. Learners also improve their understanding of the English language and how it is used, extending their skills across a range of writing styles, including imaginative, discursive and argumentative.

AICE English Literature I

English Literature 1 is characterised by exploring different genre such as tragedy, comedy and satire and the relationship between the text and its historical, social and cultural context and the ways in which this can illuminate the reading of a text. It also explores the ways in which a text’s meaning is shaped by conventions of form alongside those of language and style. It also encompasses analysing the ways in which choices regarding form, structure and language interact to create a distinctive style, for different forms and genres.



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SOCIAL SCIENCE

*3 Social Science credits required for graduation
(World History, American History, US Government and Economics)*

World History

Students explore historical themes throughout the course in order to make connections among historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania. **This course fulfills the World History requirement for graduation.**

American History & Honors

The purpose of this course is to enable students to understand the development of the U.S. within the context of history, with a major focus on the post Reconstruction period.

American Government & Honors 12th Grade ONLY

The purpose of this course is to enable students to gain an understanding of American Government and political behavior that is essential for effective citizenship and active involvement in a democratic American society. **Semester long course. This course fulfills the Government requirement for graduation.**

Economics & Honors 12th Grade ONLY

The purpose of this course is to provide students with the knowledge and decision-making tools necessary for understanding how society organizes its limited resources to satisfy its wants. Students will gain an understanding of choices they must make as producers, consumers, investors, and taxpayers. **Semester long course. This course fulfills the Economics requirement for graduation.**

AP World History

PREREQUISITES: US History Honors OR World History Honors AND FAST score of 4 or 5 OR PSAT score of 950+ AND Attendance rate of 90% or above during previous school year

AP World History is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes from approximately 1200 C.E. to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. **Students enrolled in AP World History are expected to take the AP Exam in May. This course fulfills the World History requirement for graduation.**

SCIENCE

3 credits required for graduation



Physical Science

This multifaceted course focuses on labs, hands-on activities, arts assignments, group learning, and multimedia to explore the basics of chemistry and physics. Students actively participate in the exploration of these topics by specifically studying matter, work, energy, and the laws of motion. Topics include the scientific method, the metric system, classification of matter, states of matter, gas laws, properties of atoms, the Periodic Table, chemistry basics, force and motion, energy, electricity, magnetism and waves. An additional objective of this course is to provide multiple opportunities for students to fine tune laboratory skills and prepare students for success in future science courses. **Lab fee: \$30.00.**

Physical Science Honors

Prerequisite: 3 or higher on the 8th grade FAST, a B average or higher in science. This multifaceted course focuses on labs, hands-on activities, arts assignments, group learning, and multimedia to explore the basics of chemistry and physics. Students actively participate in the exploration of these topics by specifically studying matter, work, energy, and the laws of motion. Topics include the scientific method, the metric system, classification of matter, states of matter, gas laws, properties of atoms, the Periodic Table, chemistry basics, force and motion, energy, electricity, magnetism and waves. An additional objective of this course is to provide multiple opportunities for students to fine tune laboratory skills and prepare students for success in future science courses.

Lab fee: \$30.00.

Biology **Graduation requirement** (This course is a requirement for Medical Arts Academy)

The purpose of this course is to provide exploratory experiences and laboratory and real-life applications in the biological sciences from the simple cell to the diversity of the environment. Topics will include cell biology, biochemistry, evolutionary science, ecology, environmental sciences, and human anatomy. **This course is required for graduation.**

Lab fee: \$30.00

PreAICE Biology

Grades 9 - 10

Prerequisite: Must be approved for the AICE Cambridge program or entering Medical Arts Academy in 9th grade and 3 or higher on 8th grade FAST

This course focuses on biology, particularly human biology, combining theory and practical study. Students develop essential scientific skills and understand how science impacts individuals, communities, and the environment. The syllabus covers core biological principles, current applications, and emphasizes practical skills.

This course meets the requirement for graduation and the EOC will be taken.

Lab fee: \$30.00

AICE Biology

Grades 11 - 12

Prerequisite: Passed Biology with a B or higher, 3 or higher on the Biology EOC, Chemistry

This course provides a strong foundation in key biological concepts, important themes, and practical skills. It helps students connect topics for a deeper understanding. Topics covered include cell structure, biological molecules, enzymes, transport mechanisms, genetics, disease, immunity, and more. Practical experiments and observations are emphasized, and students can earn college credit by taking the AICE Exam.

Students are required to take the exam in May. Lab fee: \$30.00

Chemistry

Chemistry is an inquiry-based course that examines matter and the changes it undergoes. This course is designed for students who have shown a proficiency in studying science and who have exhibited interest in and enthusiasm for science. This course is intended to help students realize the important role that chemistry will play in their personal and professional lives. The course will cover essential topics to give students a firm



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foundation for classes that may be taken later and for the chemistry experienced in everyday life. Students will also learn reading and studying strategies to help them become more effective readers, learners, and thinkers. Topics include laboratory skills, conceptual applications, atomic structure, periodic table, chemical bonding and reactions, acids and bases, and gas laws.

Lab fee: \$30.00.

Chemistry Honors

Chemistry is an inquiry-based course that examines matter and the changes it undergoes. This course is designed for students who have shown an advanced proficiency in studying science and who have exhibited interest in and enthusiasm for science. This course is intended to help students who may be interested in a career in science, engineering, or health-related fields realize the important role that chemistry will play in their personal and professional lives. Students will use principles of chemistry to think more critically about issues they encounter involving science and technology. The design of this course is intended to help students prepare for the rigors of lab-science courses that may be encountered in college. Topics include laboratory skills, mathematical applications, atomic structure, periodic table, chemical bonding and reactions, acids and bases, and gas laws. A strong background in reading, writing, and algebra I is essential.

Lab fee: \$30.00.

Marine Science

Grades 11-12

This course is for students who are seriously interested in possibly pursuing marine science or animal science in college, or to gain a better understanding of the marine environment, which surrounds our local area. This class will cover a variety of topics, such as the history and technology of marine science, marine ecology, the Tampa Bay estuary, the deep sea, oceanography, structure and function of marine ecosystems, marine invertebrates, and human interaction with the sea. There are several mandatory labs that we conduct in the field, which include the Florida aquarium, plankton sampling, invertebrate dissections, kayaking, beach seining, snorkeling, mangrove and seagrass ecology, mark and recapture of fish, and species collection and identification. **Lab fee: \$30.00 and \$20.00 for aquarium.**

AICE Marine Science

Prerequisite: completed Biology

AICE Marine Science is a program offered by Cambridge International Examinations (CIE) as part of the Advanced International Certificate of Education (AICE) curriculum. It focuses on the scientific understanding of the ocean and its ecosystems. Some topics are water, Earth process, marine ecosystems, classification and biodiversity, and practical skills such as physiology of marine organisms, energy, fisheries of the future and human impact. Students are expected to complete readings, as well as participate in hands-on labs and projects, and complete assignments and exams. There are several mandatory labs that we conduct in the field, which include the Florida aquarium, plankton sampling, invertebrate dissections, kayaking, beach seining, snorkeling, mangrove and seagrass ecology, mark and recapture of fish, and species collection and identification.

Lab fee: \$30.00 and \$20.00 for aquarium.

Anatomy and Physiology Honors (This course is a requirement for Medical Arts Academy)

Prerequisite: Passed Biology with a C or higher, 3 or higher on the Biology EOC.

Anatomy and Physiology is a laboratory-based course that investigates the structure and function of the human body. Content will include the basic organization of the body, major body systems and the impact of disease. Students will engage in many topics and competencies related to understanding the structure and function of the human body. These topics range from basic anatomical terminology to the biochemical composition of the human body with detailed focus on each of the major body systems. Students will learn through PowerPoint presentations and guided notes, case study reviews, collaborative group work, arts infusions projects, and labs/dissections. Students will be responsible for proper use of lab equipment, lab reports, and projects assigned throughout each unit. **Dissections are mandatory. Lab fee: \$30.00.**



Forensic Sciences

Prerequisite- successfully passed **Biology**.

Forensic science I is a year-long, elective course, designed to explore the science used in crime investigations, while incorporating concepts from biology, chemistry, and math. The course has a strong emphasis on field work, inquiry, and problem solving. Throughout the year, working as a team is stressed, as each unit requires thorough investigative work by a group and each team member must contribute to the activities. A few of the areas covered will include: crime scene documentation, fingerprint development, blood spatter analysis, entomology (insects), excavation, etc.

Lab fee:\$30.00.

Earth Space Science

Earth and Space Science is the study of the processes that shape the Earth and explain the universe. This course will explore the four main branches of Earth Science, which includes the following: geology, oceanography, meteorology, and astronomy. In this physical science course, students will learn in detail about the Earth's interior and the theory of plate tectonics. Students will learn about Earth's systems and their interactions. Students will also explore the current theories that describe the formation of Earth, our Solar System, and the universe. Students will learn about the relationship between Earth Science and technology.

Lab fee:\$30.00

Environmental Science

Environmental science is the study of patterns and processes in the natural world and their modification by human activity. This course will give you the skills necessary to address the environmental issues we are facing today by examining scientific principles and the application of those principles to natural systems. This course will survey some of the many environmental science topics at an introductory level, ultimately considering the sustainability of human activities on the planet. **Lab fee: \$30.00**

AICE Environmental Management

Prerequisites- **Biology**

Grades 10-12

The AICE Environmental Management course aims are to enable students to develop: knowledge of natural systems which make life possible on Earth, an understanding that humans are part of these systems and depend on them, an appreciation of the diverse influences of human activity on natural systems, an awareness of the need to manage natural systems, an understanding of sustainable development to meet the needs of the present, without compromising the ability of future generations to meet their own needs, a sense of responsibility and concern for the welfare of the environment and all organisms, an awareness of their own values concerning environmental issues, an awareness of the values of others, a willingness to review their own attitudes in the light of new knowledge and experiences, and a sound basis for further study, personal development and participation in local and global environmental concerns.

Lab fee: \$30.00

Principles of Engineering and Robotics

Do you like hands-on projects, problem solving, or working out a solution to a challenging puzzle? Have you ever wanted to design something new that could help make your life easier? Ever wonder how things work? Engineering might be the class for you! This STEAM (Science, Technology, Engineering, Arts, Mathematics) course is a basic introduction to engineering for ALL students. Students who complete this course will learn the concepts necessary in order to develop their ideas into solutions that will improve our lives. Students will complete exciting hands-on activities like robotics challenges, rocket launching, bridge building (and destruction), circuitry design, and more! **FEE \$75.00**



Battle Bots–Lvl 2 Robotics

Prerequisite: Completion of Level 1 Engineering and Robotics

Students in this class will explore the world of robotics by building and customizing combat robots. They will gain hands-on experience in control systems, CAD design through Onshape, and Python programming with real world tools and electronics. The course culminates in an exciting robot battle where students' creations face off in a controlled environment.

Physics of Motorsports

Grades 10 - 12 ONLY

Prerequisite: Completion of Algebra I with a “B” or higher. Physics is a course that fulfills one of the three Science courses needed to graduate by using Motorsports as a theme. Data collection and motorsports application of physics will occur in student driven lab vehicles at least once a month at a nearby closed course race track.

Lab fee: \$75.00.