ARTS & COMMUNICATION



(EHS) YEARBOOK #1821 Grades: 9, 10, 11, 12 (1 Credit)

Prerequisite: Students must apply to be on the yearbook staff.

Course Description: Sharpen and share original imaginative skills necessary for publishing a high school yearbook. Selected high self-motivated and creative members of the yearbook staff design all pages of the yearbook, cooperating as a team to develop the annual publication. Each High School produces their own yearbook with their own staff. Collegiate Academy students may apply for the yearbook staff as 10th-12th graders.

ART I #6901 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Art I is open to all students regardless of their previous art experience. Develop skills by using a variety of drawing and painting media. Learn shading, figure drawing, perspective and painting techniques. Gain an understanding of the elements and principles of design as well as color theory.

INTRODUCTION TO CERAMICS #6911 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Get an introduction to ceramic clay and the ceramic process. Discover the properties of clay and learn about the history of clay and its uses as both functional and decorative art forms. Experience clay preparation techniques and explore slab, coil, and pinch pot construction through assigned projects. Design, decorate, and glaze your own pottery.

(EHS) POSTER ART #6921 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Develop the art of lettering for advertising. Work with various media to create a series of posters and two-dimensional projects incorporating design concepts. Learn calligraphy using pen and ink and develop individual ideas using basic layout design. Execution of ideas, mastering mediums, and neatness are key to successful projects in this class.

(EHS) 3D ART #6923 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Explore the art of sculpture in this hands-on class that discovers the realm of the 3-dimensional artist specifically. From bas relief to stand alone sculptures, students create a variety of functional to decorative artworks that start from sketches and develop into a finished sculpture. Students work with clay, papier mâché, wire, paper, metal, and more to create 3D artworks to explore different subjects.

(EHS) CHORUS #8421 Grades: 9, 10, 11, 12 (1 Credit)

Course Description: Explore choral music from a wide variety of cultures, genres, and time periods through study and performance. Learn the basics of vocal technique, sight-reading, music theory, and music history. Requires participation in two evening concerts (one each semester.) Other opportunities for performance may arise.

BAND #8611 Grades: 9, 10, 11, 12 (1 Credit)

Prerequisites: Basic ability to read music is preferred, but not necessary.

Course Description: This is an entry level instrumental music class. Band is designed for students with little to no previous musical training. Acquire music reading skills while learning a traditional band instrument: flute, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba, or percussion instruments. Learn basic music theory, music vocabulary, and proper playing technique. Develop a sense of belonging by performing with an ensemble. Requires participation in two evening concerts (one each semester.) Other opportunities for performance may arise.

JAZZ BAND #8701 Grades: 9, 10, 11, 12 (1 credit)

Course Description: This 18-20 piece ensemble is open to intermediate level saxophone, trumpet, trombone, and rhythm section musicians. Jazz rhythm section consists of a drummer, a pianist, a bass player, and a guitar player. Learn about contemporary jazz music, jazz standards, and original compositions through performance and listening. Develop improvisation skills and experience a sense of cooperation and teamwork. Rehearsals are both large group and by section. Because jazz bands have a specific and limited instrumentation, this group is highly selective and is by audition only. Requires participation in two evening concerts (one each semester.)

GUITAR I #8486 Grades: 9, 10, 11, 12 (1 Credit)

Course Description: Learn basic notes and chords on an acoustic guitar. Students will learn different styles of music that employ guitar and build upon existing skills or develop new skills. No previous music experience is required.

(EHS) BEGINNING INSTRUMENTS #8505 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Explore the instrument families of band and orchestra. Develop basic musical skills and/or build on existing skills while learning to play different instruments. Learn to read basic music notation while improving playing technique. Get exposure to various genres of music, ranging from classical to contemporary. Emphasis will be based on participation and growth. No previous music experience necessary.

CLASSICAL PIANO I #8521 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Designed for students who have little or no musical experience. Develop fundamental piano skills or build on existing skills. Learn to read basic musical notation, improve playing technique, and perform various pieces. Instruction takes place both on and off the keyboards. Experience a hands-on practical learning environment with emphasis on participation and growth.

CLASSICAL PIANO II #8525 Grades: 9, 10, 11, 12 (.5 Credit)

Prerequisite: Classical Piano I or pass entry evaluation. Basic music reading skills necessary

Course Description: Begins where Classic Piano I leaves off. Develop more advanced chord, theory, and finger techniques. Build a repertoire of classical, jazz, folk, and pop music. Set a foundation for lifetime piano skills. Designed for advanced players who wish to continue to develop and broaden their musical horizons.

(EHS) MUSIC APPRECIATION #8811 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: An introduction to the elements of music through reading, writing, listening, discussion, and performance. Learn basic music theory and explore music history from opera to hiphop. Opportunities will be provided to try different instruments, both traditional and non-traditional, throughout the semester. No prior musical knowledge required.

(EHS) FIBERS AND FABRICS #6605 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Use project construction techniques. Apply the principles of design to many varied sewing projects. Build a repertoire of basic skills and complete larger projects compiling skills learned.

(EHS) HOMES AND INTERIORS #
Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Learn the basics of buying a house. Analyze the factors that should be considered when selecting a home and neighborhood. Explore home selection, design, construction, and interior decoration, and investigate career choices in this field. Focus on making housing decisions, using design, and designing interior environments.

(CA) THEATRE ARTS I HONORS #1834 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: This one-semester course introduces students to the fundamentals of acting and the many aspects of technical theatre. Basic acting techniques and theatre terminology are covered throughout the semester. Students learn about the many careers available in the world of theatre. The class also uses improvisation acting techniques, scripted rehearsals, and class performances to better their ability to perform in front of an audience.

(CA) WIND ENSEMBLE #8616 Grades: 9, 10, 11, 12 (1 credit)

Prerequisite: Experience playing a woodwind, brass, or percussion instrument, and the ability to read music. A placement audition is required.

Course Description: This course is for the advanced student who has previous experience playing a woodwind, brass, or percussion instrument and who can read music at an advanced level. Students learn about and perform contemporary styles of music, classical transcriptions, marches, and standard concert band repertoire. Students learn scales, articulations, and basic music theory, and they work together through ensemble playing as well as sectional rehearsals. Wind Ensemble performs in two concerts throughout the year, graduation, and may be called upon for other occasions.

(CA) INTRO TO ORCHESTRA #8590 Grades: 9, 10, 11, 12 (1 credit)

Course Description: This is an entry-level instrumental music class. This course is designed to teach students who have little to no previous musical training how to read music and play an orchestral string instrument, such as violin, viola, cello or double bass. Students learn basic music theory, musical terms and concepts, proper playing technique, and individual and ensemble performance skills. The students perform in two required performances throughout the year. This course helps prepare students for joining Orchestra.

(CA) ORCHESTRA #8602 Grades: 9, 10, 11, 12 (1 credit)

Prerequisite: Experience playing an orchestral string instrument. A placement audition is required.

Course Description: This course is for the student who can read music at an intermediate level or higher and who has experience playing an orchestral string instrument: violin, viola, cello, or double bass. Students perform a varied repertoire of music including orchestral transcriptions, multicultural works, classical pieces, and original pieces for string ensembles. Orchestra performs in two concerts throughout the year, graduation, and may be called upon for other occasions. Students experience a sense of cooperation and teamwork as they rehearse in both small sectionals and as a larger ensemble during Orchestra class.

(CA) WOMEN'S CHORUS #8412 Grades: 9, 10, 11, 12 (1 credit)

Prerequisite: Must be able to match pitch. Pianists may audition to serve as accompanists.

Course Description: This course serves as an introduction to the vocal department. It is a nonaudition performing choral group open to girls in grades 9-12. Students address the development of correct vocal techniques and music-reading skills through the use of choral literature, performing both three- and four-part selections. A variety of musical styles, including classical, spirituals, Broadway, and pop/contemporary selections, are used throughout the year. Students sing in a variety of foreign languages and will be introduced to a cappella singing. Because this class is a prerequisite to audition for any other vocal ensemble, students will be at varying levels. Students with previous experience will develop leadership skills. Women's Chorus performs in two concerts throughout the year.

(CA) MEN'S VOICE #8422 Grades: 9, 10, 11, 12 (.5 credit)

Course Description: This one-semester course is designed to help male students learn to sight-read, strengthen their voices, learn healthy vocal habits, and extend their range through their changing voices. From here, students will be ready to audition for full-year performing vocal ensembles and school musicals. Students perform with other vocal department students in an end-of-semester concert. Male singers new to Chamber Singers are encouraged to take both classes simultaneously when possible.

(CA) MUSIC THEORY HONORS #8802 Grades: 9, 10, 11, 12 (1 credit)

Prerequisite: Must be able to read music and match pitch. Previous study of an instrument or voice. Recommendation of music teacher.

Course Description: For the student interested in music composition and/or considering music as a college major, this course provides the tools necessary to get started. This course prepares students to take the AP Music Theory class. The fundamentals of music — such as notation, rhythm, intervals and chords — are addressed, as well as an introduction to melodic elements and beginning fourpart chorale writing in the style of Bach (Common Practice). Ear-training (aural skills) is a major aspect of the course. In addition to classroom instruction, students work with online aural skills resources and apps. Students are also required to learn basic solfège (sight-singing). Students should be able to read both bass and treble clefs.

BUSINESS, FINANCE, & INFORMATION TECHNOLOGY



(EHS) KEYBOARDING #5415 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Learn keyboarding skills necessary for word processing and other computer programs. Students will learn finger placement on the QWERTY keyboard to improve typing speed and accuracy. The course prepares students for producing typed assignments in other classes across subjects.

(EHS) INTRO TO BUSINESS #5419 Grades 9, 10, 11, 12 (.5 Credit)

Course Description: Get an introduction to the management of business and personal financial management. Become familiar with the concepts of money management, understanding income, spending, and credit as well as saving and investing.

(EHS) DIGITAL LITERACY #6801 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Learn keyboarding and Microsoft Word, PowerPoint, and Excel. Understand the basics of computers; sending emails, printing, internet skills, and keyboarding skills. Utilize browsers, search engines and other useful Internet tools to complete projects and class assignments.

PHOTO DIGITAL #6811 Grades: 9, 10, 11, 12 (.5 Credit)

Prerequisites: Digital Literacy

Course Description: Learn Adobe Photoshop CS3. Gain the skills to edit pictures, create photographs, and manipulate photographic images. Use your own pictures to create specific projects. Learn to critique qualities in a photograph using your own work and that of others.

ADVANCED COMPUTER APPS #6841 Grades: 9 #6841 (.5 Credit)

Course Description: The Advanced Computer Applications course is designed to reinforce existing formatting skills and to acquaint students with the advanced features of Microsoft Word, Power Point, and Excel. The course also provides students with the formatting skills used in the educational and business world.

(EHS) DESKTOP PUBLISHING #6815 Grades: 9, 10, 11, 12 (.5 Credit)

Prerequisites: Digital Literacy

Course Description: Get an introduction to the concepts of design and the basic elements of desktop publishing using Microsoft Publisher. Construct an individual newsletter, create a title page spread for a magazine article, produce a magazine ad, generate a brochure, and design newspaper and yearbook pages.

(CA) ART & DESIGN #6926 Grades: 9, 10, 11, 12 (.5 Credit)

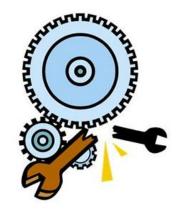
Course Description: This course allows students to experience the excitement of being a graphic artist and combine a love of fine art with the diversity of computer design. Students develop skills in layout, design, and illustration. Students use traditional fine arts media as well as computer and photo-editing software to create art work. Through a series of products, students create graphic compositions that test their ability to blend text with imagery that is visually pleasing, marketable, and balanced.

(CA) CARTOONING/ANIMATION #6946 Grades: 9, 10, 11, 12 (.5 Credit)

Prerequisites: Digital Literacy

Course Description: This course introduces the student to the history and development of cartooning. Students create cartoon characters, set them into a sequence of time frames, and eventually animate them with computer software. They also work with clay animation using stop-motion animation.

ENGINEERING & INDUSTRIAL TECHNOLOGY



INTRO TO AVIATION #5851 Grades: 9, 10, 11, 12 (1 Credit)

Course Description: Learn the history and basic principles of flight in this year-long elective course. Students will understand build a foundation of skills necessary to pursue careers in flying, aerospace engineering, and unmanned aircraft systems. This course integrates physics and meteorology, as well as algebraic concepts.

MARITIME PROGRAM

Grades: 9, 10, 11, 12 (4 Credits)

Students will take four (4) credits at the Bayfront Maritime Center and their core classes at Erie High School. Students must take all of the Maritime courses offered for the year. The program is open to Erie High Students only.

SUREVY OF MARINE SCIENCE TECH #5815 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Design and operate an underwater Remotely Operated Vehicle (ROV). This STEM-focused course introduces students to the expanding technology available to reach the depths of the ocean and assist with marine travel.

INTRO TO MARINE SCIENCE #5811 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: This course will introduce Students to the very broad Marine Transport Industry as it applies to Sea, Lake and River transport both domestically in the United States and Worldwide. Special emphasis will be on the functions and different types of Ships and their Cargoes and the specialization of Ships to handle different Cargoes. Also investigated will be Crews and manning requirements (as we enter the automation age) and Shipping Market Economics. Operation of Ports and Logistics of moving Cargo by sea will be studied along with the regulation of the Marine Transport Industry in an era of Environmental and Sustainability awareness.

SAILING #5825 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Students will gain a fundamental understanding of how Sailboats interact with the wind and water. They will learn the basic sailing terms, parts of a boat, skipper and crew commands, types of sails and sail trim, points of sail, and how to properly rig and de-rig a sailboat. In the Fall and Spring, Practical experience will be on the water out in Presque Isle Bay in specially adapted BMC 'Hansa' Dinghies and on the BMC 35' Catamaran. uring the winter months students will learn about the safe operation and regulations of all watercraft and boats in both Federal (USCG) waters and State (PAF&BC) waters and then sit for the PA Safe Boaters exam to get certified for a PA Boaters License. Also included will be CPR and First Aid training.

NAVIGATION 1 #5821 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Explore basic Navigation concepts and practices of Navigators through the ages. Students will learn to read all facets of a Nautical chart, plot Latitude & Longitude, understand True & Magnetic compass directions, plot a position using Dead reckoning, plot a position using multiple bearings, understand leeway and set, drift and tides. Nav. II will learn the art and science of Celestial Navigation and the advent and technology of GPS Navigation (Satellite Navigation) on small boats and large Ships.

BOAT BUILDING #5831 Grades: 9, 10, 11, 12 (1 Credit)

Course Description: This course will provide Students with the basic knowledge and skills to build maintain and repair different types of wooden, steel and fiberglass boats both in and out of the water. This course will introduce students to the safe and correct use of basic hand and power tools, various techniques and practices that are used in the Boat Shop. Topics will include correct measuring, reading/understanding plans & drawings, repair & maintenance of Deck/Engine/Hull/Interior and Rigging parts of a vessel. Also included will be the correct use and application of Paints/Antifouling/Solvents/Glues/Epoxies/Varnishes and all manner of refinishing and safe storage of materials and tools.

ARTS OF THE SAILOR #5829 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: This course will provide a background of knowledge to the history of seafaring through the ages and the practical skills of sailors – many of which are still in use today. Students will learn about the many different types of ropes and lines (manmade and synthetic) and wire which is used on all sailing boats and all the way up to large commercial ships. Emphasis will be placed on correct tying all Maritime Knots commonly used on sailing boats/yachts and commercial ships. The art of splicing and using canvas to make sails and artifacts will be practiced in the shop.

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HUMAN SERVICES



SPANISH I #1923 Grades: 9, 10, 11, 12 (1 Credit)

Course Description: Learn the basics for proficiency in Spanish as well as the various cultures of Spanish-speaking countries. Work on learning Spanish in the four basic communication skills: reading, writing, listening, and speaking. Classroom activities, multimedia, the standard textbook, and accompanying workbooks will all serve to enhance awareness of Spanish influence in our lives. Students must complete Spanish I to advance to Spanish II.

CITIZENSHIP/CONSTITUTION (EL) #2801 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Citizenship and the Constitution is designed to provide students who are new to the United States and have limited English proficiency with a better understanding of our government and the rights and responsibilities of citizens. The course will focus on the three main pillars that define the structure of citizenship: the rights and responsibilities of citizenship; participation in our communities, the Commonwealth, and the United States; and participation in a global society.

(EHS) ERIE HISTORY #2821 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Explore Erie's history from 1795 to present. Learn about our state and local geography, our city's first inhabitants, and Erie's relationship with important historical time periods. Explore key historical figures of our city's rich legacy. Examine local and state history using primary and secondary sources in varying media. Reading analysis, classroom discussions, and research-based projects will be a focal point of this course.

(EHS) WORLD GEOGRAPHY #2851 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Designed to enhance student understanding of the world in which we live, you will focus on areas of the world through the lenses of the five themes of geography. Make the connections of location, place, interactions, movement, and regions with each specific world region covered throughout the course. Using the five themes of geography, develop a global perspective, which will help to prepare you for the diverse society in which we live.

(EHS) CHILD DEVELOPMMENT I #6551 Grades: 9, 10 (.5 Credit)

Course Description: Overview of child development from conception through birth. Understand the decision to parent, teen pregnancy, and prenatal development. Develop a better attitude about children, make wiser parenting choices in the future, and prepare yourself for careers in childcare/education. Final Project: take home an infant simulator.

(EHS) COOKING I #6601 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Focus on the development of basic skills needed to select, prepare, and serve food that meets nutritional needs of individuals and families. Emphasis in this course is given to the development of competencies related to nutrition, kitchen organization and equipment, safety and sanitation, food preparation, and meal planning.

(EHS) LIFE MANAGEMENT #6711 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Learn how to effectively communicate with people verbally and nonverbally. Develop successful relationships with others including family, friends, and co-workers. Prepare students with qualities to make you more successful in making short and long-term goals, conflict resolution skills, and coping with crises. Improve the qualities that people notice about you.

JROTC I #9961 Grades: 9, 10, 11, 12 (1 Credit)

Course Description: This course provides an opportunity for leadership, education and training. First-year cadets study leadership theory and application, foundations for success, communication/study skills, citizenship, military customs and courtesies, and history. They will also learn self-discipline, map reading and basic first aid.

HEALTH & SCIENCE



(EHS) METEOROLOGY #4929 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Develop an understanding of the earth's atmosphere and the factors that affect weather and climate in this semester-long meteorology course. Use laboratory and technology skills to analyze weather models and make evidence-based forecasts. Explore extreme weather events that impact human safety and alter environmental conditions. Study the current rate of climate change and develop awareness of the human impacts that have the potential to create lasting global transformation. Learn how precipitation creates our weather and how to forecast the weather on a daily basis.

(EHS) ECOLOGY OF THE GREAT LAKES #5819

Grade: 9, 10, 11, 12 (1 Credit)

Course Description: This course will study ecological complexities with special emphasis on the natural processes and social systems both in and around the Great Lakes bordering the United States and Canada. Through the use of multiple resources using online platforms, from academia and government, this course will emphasize understanding and application of principles and concepts, both individually and collectively, that affect all of these systems in multiple assessment methods.

(CA) SPORTS NUTRITION #9527 Grades: 9, 10, 11, 12 (.5 credit)

Course Description: Explore health literacy in the nutritional domain to boost your energy, manage stress, build muscle, lose fat, or improve your performance. Develop skills to maximize benefits from the foods you choose and meals you make. Learn what to eat before and during exercise and how to refuel for optimal recovery. Explore the latest research on supplements, energy drinks, organic foods, fluid intake, popular diets, carbohydrate and protein intake, training, competition, fat reduction, and muscle gain.

(CA) CULTURAL COMPETENCE IN SPORTS MED #9543 Grades: 9, 10, 11, 12 (.5 Credit)

Course Description: Cultural Competence in Sports Medicine provides background information on various cultures and presents strategies for engaging in cross-cultural interactions. Develop cultural considerations for each stage in the physical assessment process, including taking an oral history, inspecting, observing, and palpating. Build appropriate palpation techniques across cultures so athletes are comfortable with the type and degree of physical contact. Learn conventional dress code generally expected by different cultures to cultivate a professional atmosphere.

(EHS) INTRO TO DANCE #9603 Grades: 9, 10, 11, 12 (.5 credit)

Course Description: This course is perfect for the beginner dancer. This course will introduce students to several different forms and styles of dance. Some of these forms of dance students will learn are Hip Hop, Jazz, Tap, and Ballet. Students will learn a brief history of each form of dance and a short dance of each style.

(EHS) MULTICULTURAL DANCE #9615 Grades: 9, 10, 11, 12 (.5 credit)

Course Description: Dance is and has always been an extension and expression of the culture it is in. This course will explore the different dance cultures from around the world. Students will learn dances and movements from countries' history past and present.

HIP/HOP DANCE I #9616 Grades: 9, 10, 11, 12 (.5 credit)

Prerequisite: Completion or, or concurrent

enrollment in, Wellness/Fitness I.

Course Description: This course is designed for the novice dancer with no previous dance experience, or an experienced dancer looking for a fun, new experience in dance. Class is structured like a traditional Hip Hop dance class with a warm-up, center combinations, group choreography, and improvisation/freestyle. Students learn and develop basic rhythmic skills and weight shifts to enhance learning and the performance of Hip Hop, such as body isolations, drops, body bounce, up-rocking, house dancing and popular street dances, and elements of breakdancing. We view dance on video to further enhance our process, to expose students to dance on a global perspective and to increase our knowledge of this unique, rich and vibrant culture. Students also participate in school performances. Scheduling preferences will be given to upperclassmen when necessary.

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