

# Available Classes for Rising Freshman (Gr. 9)

## English Language Arts

(4 credits total required for graduation)

### **INTRODUCTION TO THE HUMANITIES ENGLISH**

**Required for all Students in Grade 9**

Year

1 English Credit and 1 Social Studies Credit

Introduction to the Humanities is an interdisciplinary course designed to help students discover relationships in literature, history, philosophy, current events, art, and music. The team-taught class examines the complex human experience through the study of cultures in the past and present. Students will also focus on academic skills needed to succeed in high school: organizational and research skills, note-taking, close-line reading, analytical thinking as well as oral and written expression. Introduction to Humanities is scheduled as a two-period block and taught by an English and Social Studies teacher working together to grant students a well-rounded liberal arts education.

This is an NCAA approved course.

### **ACADEMIC ENGLISH**

Year

1 English Credit

Repeatable

**Prerequisites: Students must be identified as an English Language Learner (ELL). Students are identified using the Ohio Test of English Language Acquisition (OTELA) or the district assessment. Beginning or intermediate levels are eligible for the course (OTELA levels 1, 2, 3) and students with a composite score of 4 on the OTELA will be considered on a case-by-case basis.**

This course will provide opportunities for identified ELL students to learn age-appropriate content knowledge that reflects the content learning in the mainstream while strengthening language skills. Students will read authentic texts and will learn the language through integration; so language acquisition is purposeful and meaningful in context. Students will also learn academic vocabulary that is closely linked to academic success.

# English Elective Courses

## **PUBLIC SPEAKING**

Semester

.5 English Elective Credit

Students enrolled in this course will focus on both written and spoken communication. Students will learn the fundamentals of writing speeches. Those enrolled in the class will study the delivery of various types of speeches and the requisite public speaking skills, research skills, interviewing skills, and public relations skills necessary for public speaking. This exciting course will encourage the development of all communications skills and will benefit students in preparation for college and career alike as well as helping students to overcome common fears associated with speaking in public or conducting interviews. The course is open to all students, grades nine through twelve.

This is an NCAA approved course.

## **YEARBOOK**

### **Independent Study Only**

As an independent study class, students enrolled in Yearbook will spend study center time in the yearbook office. Study center time may be used for both yearbook work or personal study time; however, students will be required to report to the advisor during this period. Students not scheduling a study center will report to the advisor during morning office hours. Students will be responsible for page layout, photography, story writing, and other assignments that are given in the creation of the New Albany *Eagle* yearbook.

## **CRITICAL READING/STUDY CENTER**

Year

.5 English Elective Credit

**Prerequisite: Must have approval of instructor and Department Chair**

This course is an intensive reading intervention program that combines reading instruction with a study center. It addresses individual student needs through adaptive instruction software and direct instruction in reading and writing skills. For a portion of the week, students learn explicit core reading strategies to develop deep, critical and analytical comprehension skills that can be utilized across all courses. Reading strategies include activating prior knowledge, questioning, visualizing, predicting, inferring, monitoring meaning, determining author's purpose and synthesizing

information. Students will gain the skills necessary to read, process, and remember the denser textbook materials assigned in high school. The remaining portion of the week is devoted to the completion of homework or additional academic assistance available through the study center.

This is an NCAA approved course.

## Social Studies

(4 credits total required for graduation)

### **INTRODUCTION TO THE HUMANITIES SOCIAL STUDIES**

**Required for all Students in Grade 9**

Year

**1** English Credit and **1** Social Studies Credit

Introduction to the Humanities is an interdisciplinary course designed to help students discover relationships in literature, history, philosophy, current events, art, and music. The team-taught class examines the complex human experience through the study of cultures in the past and present.

Students will also focus on academic skills needed to succeed in high school: organizational and research skills, note-taking, close-line reading, analytical thinking, as well as oral and written expression.

Introduction to Humanities is scheduled as a two-period block and taught by an English and Social Studies teacher working together to grant students a well-rounded, liberal arts education.

This is an NCAA approved course.

## Science

(3 total credits required for graduation)

### **PHYSICAL SCIENCE**

Year

**1** Science Credit

This course is designed to be an introduction to physics and chemistry, investigating lab techniques, experimental design, and data analysis utilizing scientific models. In-depth studies of simple physical systems will be used to provide students with direct experiences and observations of basic principles. Students will engage in complex problem-solving activities that require understanding and practical application of these principles. Physics introduction to motion, forces, energy and waves. Chemistry

introduction to the atomic model, periodic table, matter, separation and bonding.  
Astronomy introduction to galaxies and stellar formation.

This is an NCAA approved course.

## **BIOLOGY**

Year

**1 Science Credit**

*Text: Modern Biology, Holt, Rinehart and Winston*

**Prerequisite: Physical Science**

This is an introductory laboratory course to the study of life that emphasizes the basic concepts and principles of biology. A focus on skill development and conceptual understanding will be modeled. Students will be engaged in using laboratory techniques and skills during the year. Topics of this course include: cellular biology, an introduction to biochemistry, organism structure and function, heredity and genetics, evolution and ecology and experimentation design.

This is an NCAA approved course.

## **HONORS BIOLOGY**

Year

**1 Science Credit**

1.1 Weighted

*Text: Modern Biology, Holt, Rinehart and Winston*

**Prerequisite: Physical Science, Algebra 1 and Recommendation by a science teacher**

This is an accelerated laboratory course to the study of life. This class is for students who show a strong aptitude in science inquiry, data collection, and systematic observations. Honors Biology is for those students who are self-motivated, independent learners, who have a high level of abstract thinking and are interested in further science study. Students in this course will develop skills in laboratory experimental design and methodology. The topics of this course include: cellular biology, an introduction to biochemistry, organism structure and function, heredity and genetics, evolution, and ecology.

This is an NCAA approved course.

## **HONORS BIOLOGY WITH BIOMEDICAL SCIENCE**

Year

**1 Science Credit**

1.1 Weighted

PLTW: Biomedical Pathway

*Text: Modern Biology, Holt, Rinehart and Winston and Project Lead the Way Learning Management System*

**Prerequisite: Physical Science, Algebra 1, and recommendation by a science teacher**

In this accelerated laboratory course, students study the concepts of biology and medicine to determine the factors which lead to the death of a fictitious person. While investigating the case, students learn the principles of classic biology while examining autopsy reports, investigating medical history and exploring medical treatments which may have prolonged the person's life. The activities introduce students to biochemistry, cellular biology, genetics, ecology, evolution, human physiology, and pathology, while applying state of the art biotechnologies and research processes to solve problems. This class is for students who show a strong aptitude in science inquiry, data collection, and systematic observations.

Honors Biology with BMS is for those students who are self-motivated, independent learners, who have a high level of abstract thinking and are interested in further science study. Students in this course will be developing skills in laboratory experimental design and methodology. Participants are required to wear class medical scrubs during wet labs and to purchase a biomedical sciences laboratory journal.

This is an NCAA approved course.

## Science Elective Courses

### **CHEMISTRY**

Year

**1 Science Credit**

**Prerequisite: Geometry and Physical Science**

Chemistry is an introductory course in fundamental chemical concepts and laboratory techniques. The curriculum challenges students to develop their critical thinking skills and to improve their verbal and written expression of scientific models. The course is taught at a pace to allow for in depth student discussion to improve conceptual understanding and to apply scientific models to the world around them. Topics covered include, but are not limited to: Data Analysis, Kinetic Molecular Theory, Gas Laws, Energy, Atomic Theory, Periodic Trends, Bonding, and Reactions

This is an NCAA approved course.

### **HONORS CHEMISTRY**

Year

**1 Science Credit**

## 1.1 Weighted

**Prerequisite: Geometry, Physical Science, and recommendation by a science teacher**

Honors Chemistry is an introductory course in fundamental chemical concepts and laboratory techniques. The curriculum challenges students to develop their critical thinking skills and to improve their verbal and written expression of scientific models. The course is taught at a fast pace requiring more independent work with a strong emphasis on quantitative problem solving. Topics covered include, but are not limited to: Data Analysis, Kinetic Molecular Theory, Gas Laws, Energy, Atomic Theory, Periodic Trends, Bonding, Reactions, and Acid and Bases.

This is an NCAA approved course.

## **PHYSICAL GEOLOGY**

Year

1 Science Credit

Text: *Zumberge's Laboratory Manual for Physical Geology*

**Prerequisite: Physical Science**

**Eastland-Fairfield Career & Technical Schools Satellite Program**

General principles of physical geology are introduced including the origin, composition, structure and dynamics of planet Earth. Topics are explored within the general context of plate tectonic theory and include: minerals and rocks, weathering and erosion, geological time, hydrology, earthquakes, volcanoes, mountain building, oceans, landforms, and natural resources. Laboratory work involves the practical application of geologic principles such as rock and mineral identification, geologic and topographic map interpretation; simulation of stream, ocean, glacier, and tectonic behavior; analysis of on-line data from USGS, NOAA, NASA, GIS and commercial geologic sources; and field experiences in the 80-acre Wetland Nature Preserve.

This is an NCAA approved course.

## **Mathematics**

(4 total credits required for graduation)

### ***REQUIREMENT FOR ENROLLMENT***

Current High School students registering for a mathematics class must meet one of the following criteria:

- Teacher recommendation for the next course in sequence
- Designated grades and qualifying score on screening test for Honors/AP classes
- Repetition of the current mathematics course if necessary
- Parental waiver

Entering freshman students will be registered on recommendation of the Middle School Mathematics faculty.

### Enrollment in Honors or AP Class

Enrollment in an Honors or AP class requires a Grade of B or higher in the preceding Honors class OR a qualifying score on the Honors Screening Test and teacher recommendation. Students not qualifying for an Honors class may enroll with submission of a parent waiver; provided prerequisites have been met for the course.

### Calculator Requirement

All Mathematics classes will require the use of a graphing calculator at various times throughout the year. The faculty instructs using the TI-84 Plus graphing calculator, and any TI-83 model or TI-84 model will be supported in the classrooms. Any calculator that performs symbolic manipulation (such as the TI-89 or TI-nSpire CAS) will not be permitted for use on assessments.

## **INTERVENTION LEARNING CENTER**

Year

**.25** Elective Credit (Pass/Fail)

Semester or Full Year options available -- may be repeated

This course is designed for students who require the teaching of skills identified as weaknesses in core course content and who may need additional support to meet course learning targets. This course will be considered a pass/fail course and will play no role in determining a student's GPA. A student enrolled in the course will earn **.25 elective credit per semester** and will be able to repeat it throughout his/her high school years if determined appropriate by administration. A student's success in this course will be determined by his/her progress toward specific academic goals and the criteria established for the course.

## **ALGEBRA 1**

Year

**1** Math Credit

Text: *Core Connections Algebra, College Preparatory Math*

**Prerequisite: 8th Grade math and Recommendation from NAMS Mathematics Faculty**

Calculator Required: *TI-83 or TI-84*

Algebra 1 is the first in a series of courses that prepare students for advanced mathematical concepts. This course is designed to develop an understanding of algebraic concepts, problem solving, and the skill of abstract thinking. Students will explore algebraic expressions, linear and quadratic equations, functions, polynomials, rational numbers, statistics, solve linear equations and inequalities, use proportional

reasoning, graph relations and functions, solve systems of linear equations, and factor expressions. Emphasis will also be placed on analyzing graphs of linear, quadratic, and exponential functions.

This is an NCAA approved course.

## **GEOMETRY**

Year

1 Math Credit

Text: *Core Connections Geometry, College Preparatory Math*

**Prerequisite: Algebra 1**

Calculator Required: *TI-83 or TI-84*

Geometry is the study of two- and three-dimensional shapes, reasoning, and relationships. This course develops an awareness of logical and impartial thinking, critical evaluation, and problem solving through informal proofs. Topics include points, lines, angles, planes; parallel and perpendicular lines; polygons and circles; congruence and similarity; area and volume; transformations and locus; vectors; and an introduction to trigonometry.

This is an NCAA approved course.

## **HONORS GEOMETRY**

Year

1 Math Credit

1.1 Weighted

Text: *Core Connections Geometry, College Preparatory Math*

**Prerequisites: Recommended grade of B or higher in Honors Algebra 1 and/or qualifying score on the Honors Screening Test**

Calculator Required: *TI-83 or TI-84*

Honors Geometry is a course designed for the student preparing to take Honors Algebra 2, Honors Pre-Calculus and AP Calculus. All topics in the regular Geometry course are addressed, as well as advanced topics in transformation, analytic geometry, non-Euclidean geometry, and deductive reasoning through formal proof. Many topics are considered with the use of a graphing calculator and computer assistance.

This is an NCAA approved course.

## **ALGEBRA 2**

Year

**1 Math Credit**

Text: *Core Connections Algebra 2, College Preparatory Math*

**Prerequisite: Geometry**

Calculator Required: *TI-83 or TI-84*

Algebra 2 reviews, expands, and extends the student's knowledge of the fundamental facts, concepts, and skills of Algebra 1. Topics include linear and quadratic functions and systems; polynomial, radical, and rational expressions; exponential and logarithmic functions; and the introduction of trigonometry. Topics are considered with the aid of a graphing utility and from an applied, problem-solving approach, when appropriate.

This is an NCAA approved course.

## **HONORS ALGEBRA 2**

Year

**1 Math Credit**

1.1 Weighted

Text: *Core Connections Algebra 2, College Preparatory Math*

**Prerequisite: Recommended grade of B or higher in Honors Geometry and/or qualifying score on the Honors Screening Test**

Calculator Required: *TI-83 or TI-84*

Honors Algebra 2 is a course designed for the student preparing to take Honors Pre-Calculus and AP Calculus AB. All topics in the regular Algebra 2 course are addressed, as well as advanced topics in polynomial, exponential, logarithmic functions, sequences and series, and trigonometry.

This is an NCAA approved course.

## **PRE-CALCULUS**

Year

**1 Math Credit**

Text: *Pre-Calculus, College Preparatory Math*

**Prerequisite: Algebra 2 (Recommended grade of C- or higher in Algebra 2)**

Calculator Required: *TI-83 or TI-84*

This course emphasizes the analysis of functions and the application of problem-solving skills. Students will model and analyze linear, quadratic, piecewise, trigonometric, power, rational, polynomial, logarithmic, and exponential functions. Other topics of study will include polar coordinates and equations; trigonometric functions, equations and identities; conic sections, matrices; and sequences and series. The graphing calculator will be utilized to help students further understand the concepts and applications introduced.

This is an NCAA approved course.

## HONORS PRE-CALCULUS

Year

1 Math Credit

1.1 Weighted

Text: *PreCalculus, College Preparatory Math*

**Prerequisites: Recommended grade of B or higher in Honors Algebra 2 and/or qualifying score on the Honors Screening Test**

Calculator Required: *TI-83 or TI-84*

Honors Pre-Calculus is designed to further the student's comprehension and skills in advanced algebra, geometry, and trigonometry. Students enrolling in this course must demonstrate a strong interest in mathematics and science. Topics include graphical analysis of polynomial, rational, logarithmic, and trigonometric functions set in a problem-solving applied approach; trigonometric applications; polar and parametric equations; sequences and series; vectors, and some aspects of calculus are begun. All topics are considered with the aid of a graphing utility, which is required for the course.

This is an NCAA approved course.

## ADVANCED PLACEMENT STATISTICS

Year

1 Math Credit

1.2 Weighted

Text: *The Practice of Statistics, 4th Edition Starnes, Yates, and Moore*

**Prerequisite: Recommended grade of B or higher in Algebra II or taken concurrently with Honors Algebra II**

Calculator Required: *TI-83 or TI-84*

AP Statistics is an introductory college-level statistics course in which students will study the collection and description of data, experimental design, probability, and statistical inference. This course can be taken as an elective math course in addition to taking a Pre-Calculus or Calculus course. At the end of the course, students will have the opportunity to take the AP Statistics exam. By receiving a satisfactory score on the AP exam, students may receive college credit for the course.

The AP exam fee is approximately \$95 (subject to change).

This is an NCAA approved course.

## Global Language

## **SPANISH 1A**

Year

**0.5** Elective Credit

Text: *Descubre I*

In Spanish 1A the five language skills - listening, speaking, writing, reading and cultural awareness are introduced. Communication skills are developed through daily use of Spanish in the classroom to promote fluency. Grammar concepts are introduced and practiced in meaningful contexts with authentic resources throughout the year. Students will begin to develop language fluency through presentational, interpersonal and interpretive tasks. Students will become acquainted with the language & culture of Spanish-speaking countries.

Yearlong class that covers the first half of Spanish 1 standards.

This is an NCAA approved course.

## **SPANISH 1B**

Year

**0.5** Elective Credit

Text: *Descubre I*

In Spanish 1B, the five language skills - listening, speaking, writing, reading and cultural awareness are continued. Communication skills are reinforced through daily use of Spanish in the classroom to promote fluency. Grammar concepts are practiced in meaningful contexts with authentic resources throughout the year. Students will reinforce language fluency through presentational, interpersonal and interpretive tasks. Students will become acquainted with the language & culture of Spanish-speaking countries.

Yearlong class that covers the second half of Spanish 1 standards.

This is an NCAA approved course.

## **SPANISH 1**

Year

**1** Elective Credit

Text: *Descubre I*

In Spanish 1, the five language skills – listening, speaking, writing, reading and cultural awareness – are introduced. Communication skills are developed through daily use of Spanish in the classroom to promote fluency. Grammar concepts are introduced and practiced in meaningful contexts with authentic resources throughout the year. Students

will begin to develop language fluency through presentational, interpersonal and interpretive tasks. As students become acquainted with the language and culture of Spanish-speaking countries, they will develop insight into their own language and culture while developing an appreciation and respect for diversity.

This is an NCAA approved course.

## **SPANISH 2**

Year

**1** Elective Credit

Text: *Descubre II*

**Prerequisite: Spanish 1**

In Spanish 2, the five language skills – listening, speaking, reading, writing, and cultural awareness – are more fully developed. Vocabulary and grammar continue to be introduced in context, through authentic resources and communicative activities. Oral and listening skills are developed on a daily basis. Students will expand their fluency through presentational, interpersonal and interpretive tasks.

This is an NCAA approved course.

## **SPANISH 3**

Year

**1** Elective Credit

Text: *Descubre II*

**Prerequisite: Spanish 2**

In Spanish 3, the five language skills – listening, speaking, reading, writing, and cultural awareness – are more fully developed. New vocabulary and grammar concepts also continue to be introduced and reinforced in meaningful and authentic situations. Students will expand their fluency through presentational, interpersonal and interpretive tasks.

This is an NCAA approved course.

## **FRENCH 1**

Year

**1** Elective Credit

In French 1, the five language skills – listening, speaking, writing, reading and cultural awareness – are introduced. Communication skills are developed through daily use of French in the classroom to promote fluency. Grammar concepts are introduced and practiced in meaningful contexts with authentic resources throughout the year. Students will begin to develop language fluency through presentational, interpersonal and

interpretive tasks. As students become acquainted with the language and culture of French-speaking countries, they will develop insight into their own language and culture while developing an appreciation and respect for diversity.

This is an NCAA approved course.

## **FRENCH 2**

Year

**1** Elective Credit

**Prerequisite: French 1**

In French 2, the five language skills – listening, speaking, reading, writing and cultural awareness – are more fully developed. Vocabulary and grammar continue to be introduced in context, through authentic resources and communicative activities. Oral and listening skills are developed on a daily basis. Students will expand their fluency through presentational, interpersonal and interpretive tasks.

This is an NCAA approved course.

## **FRENCH 3**

Year

**1** Elective Credit

**Prerequisite: French 2**

In French 3, the five language skills – listening, speaking, reading, writing and cultural awareness – are more fully developed. New vocabulary and grammar concepts also continue to be introduced and reinforced in meaningful and authentic situations. Students will expand their fluency through presentational, interpersonal, and interpretive tasks.

This is an NCAA approved course.

## **MANDARIN CHINESE 1A**

Year

**0.5** Elective Credit

In Mandarin 1A, the three language skills - listening, speaking, and cultural awareness are introduced. Communication skills are developed through daily use of Mandarin in the classroom to promote fluency. Grammar concepts are introduced and practiced in meaningful contexts with authentic resources throughout the year. Students will begin to develop language fluency through presentational, interpersonal and interpretive tasks.

This is a yearlong class that covers the first half of Mandarin 1 standards.

This is an NCAA approved course.

## **MANDARIN CHINESE 1B**

Year

**0.5** Elective Credit

In Mandarin 1B, the five language skills - listening, speaking, writing, reading and cultural awareness are continued. Communication skills are reinforced through daily use of Mandarin in the classroom to promote fluency. This course will help students develop skills in Mandarin Chinese to communicate across ethnic, cultural, ideological and national boundaries and to develop an understanding of Chinese interpersonal behavioral culture and related thought patterns. At the end of the course, students will be expected to perform in speaking, listening, reading and writing Chinese at a level of proficiency appropriate for continuing on to the next course in the sequence.

This is a yearlong class that covers the second half of Mandarin 1 standards.

This is an NCAA approved course.

## **MANDARIN CHINESE 1**

Year

**1** Elective Credit

The focus of this class is to introduce students to Mandarin Chinese and to the Chinese culture through the study of Mandarin as a primary language. Learning to speak the language entails learning how to communicate and behave appropriately in the culture. Communication skills are developed through daily use of Chinese in the classroom. As students become acquainted with the language and culture of Chinese, they develop insight into their own language and culture while developing appreciation and respect for diversity.

This is an NCAA approved course.

## **MANDARIN CHINESE 2**

Year

**1** Elective Credit

Text: *Integrated Chinese Book 1*

**Prerequisite: Mandarin Chinese 1**

The focus of this high school Chinese course is to train students to function successfully in Chinese culture using Mandarin as their primary language. This course is a continuation of Mandarin 1. This course will help students develop skills in Mandarin Chinese to communicate across ethnic, cultural, ideological and national boundaries and to develop an understanding of Chinese interpersonal behavioral culture and related thought patterns. At the end of the course, students will be expected to perform in speaking, listening, reading and writing Chinese at a level of proficiency appropriate

for continuing on to the next course in the sequence. Students should also demonstrate a level of cultural understanding suitable for correct performance of assigned tasks in Chinese. Students will also learn how to read and write Chinese writing system.

This is an NCAA approved course.

## **MANDARIN CHINESE 3**

Year

**1** Elective Credit

Text: *Integrated Chinese Book 1*

**Prerequisite: Mandarin Chinese 2**

The focus of this high school Chinese course is to train students to function successfully in Chinese culture using Mandarin as their primary language. This course is a continuation of Mandarin II. This course will help students develop skills in Mandarin Chinese to communicate across ethnic, cultural, ideological and national boundaries and to develop an understanding of Chinese interpersonal behavioral culture and related thought patterns. At the end of the course, students will be expected to perform in speaking, listening, reading and writing Chinese at a level of proficiency appropriate for continuing on to the next course in the sequence. Students should also demonstrate a level of cultural understanding suitable for correct performance of assigned tasks in Chinese. Students will also furthermore learn more about Chinese writing system. Authentic materials will be used for general discussions in Chinese cultural situations.

This is an NCAA approved course.

## **Health & Wellness**

(1 total credit required for graduation)

### **HEALTH**

Semester

**.5** Health Credit

Health combines the concepts, topics, information, and skills formerly offered in physical education and health. The integration of these subject areas helps students foster an awareness and understanding of these interrelationships through the study of the components of wellness, including personal fitness, mental health, relationships, alcohol prevention, tobacco prevention, Infectious disease, non-infectious disease, decision making CPR, H.O.P.E. and nutrition.

### ***GENERAL PE COURSE INFORMATION***

All PE courses count for PE credit towards graduation

All PE classes will include the following state of Ohio State PE Standards

- **Standard 1:** A physically literate individual demonstrates competency in a variety of motor skills and movement patterns.
- **Standard 2:** A physically literate individual applies knowledge of concepts, principles, strategies and tactics related to movement and performance.
- **Standard 3:** A physically literate individual demonstrates the knowledge and skills to achieve and maintain a health-enhancing level of physical activity and fitness.
- **Standard 4:** A physically literate individual exhibits responsible personal and social behavior that respects self and others.
- **Standard 5:** A physically literate individual recognizes the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction.

## ***PHYSICAL EDUCATION WAIVER***

Students who have participated in interscholastic athletics (basketball, cross country, golf, lacrosse, soccer, swimming, tennis, track, wrestling, girls volleyball, football, field hockey, baseball, softball), marching band, drill team or cheerleading for at least two (2) full seasons as defined in the New Albany High School handbook, while enrolled in grades 9 through 12, and as documented by the athletic director, assistant principal, or guidance counselor may be excused from the high school physical education requirement. Students electing such an excuse shall complete one-half (1/2) unit of at least sixty (60) hours of instruction in another course of study which is designated by the Board as meeting the high school curriculum requirements.

PE Waiver and FAQ can be found at: [PE Waiver FAQ and Form](#)

## **SWIMMING**

Semester

**.25** PE Credit

This course is designed to offer students a variety of water-related activities such as lap swimming, water aerobics, water polo and water volleyball. Participating in these activities will allow students to gain fitness conditioning and refine their swimming strokes.

## **ATHLETIC CONDITIONING**

Semester

**.25** PE Credit

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. The curriculum will emphasize physical conditioning, knowledge of muscle groups, appropriate techniques, and correlation of movements across different movements. The content will be mastered through physical fitness testing, cardiorespiratory exercise, muscular strength,

muscular endurance, flexibility, and conditioning drills. This class will follow a weight-training program specifically designed to develop overall strength, explosiveness, and speed for athletics. Students will receive knowledge in proper lifting techniques, stretching, and the correlation of lifts to the muscle groups to enhance athletic performance. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. The weight training class will be sports-specific as established by the physical education teacher.

## **MANAGING STRESS THROUGH PHYSICAL ACTIVITY**

Semester

**.25** PE credit

This course is designed to provide an overview of stress and its impact on physical, mental, emotional, and spiritual health and wellness. Coping strategies, relaxation techniques, healthy eating behaviors, aquatic fitness, physical fitness, fitness games and physical activities for stress reduction including yoga, diaphragmatic breathing, progressive muscle relaxation, visualization, Pilates, Zumba and other fitness activities will be explored.

## **PHYSICAL EDUCATION**

Semester

**.25** PE credit

This course will highlight the significance of lifetime physical fitness, individual and team sports, and sportsmanship. The class will introduce a variety of fitness activities that can be used for a lifetime to live a healthy lifestyle. These activities may include walking, running, swimming, plyometrics, yoga, Zumba, fitness testing, and weight training. The class will introduce individual and team sports to help with skill development, strategies and tactics, rules, and scoring of each activity. These sports may include ultimate frisbee, badminton, volleyball, basketball, soccer, tennis, pickleball, and dance. Students will learn sportsmanship and social skills while working with a partner or team during the activities in this class. The class will focus on overall wellness and all students will be evaluated based on daily participation, responsible personal and social behavior, and knowledge of strategies and rules.

## **Visual & Performing Arts**

(.5 total credits required for graduation)

## **ART FOUNDATIONS**

Year

**1** Fine Arts Credit

Students in this survey class experience a variety of two-and three-dimensional activities that explore basic art and design skills. Various processes involved in introductory art making will be examined. Projects may include, but are not limited to, drawing, painting, sculpture, and mixed media. Students will work in media such as: graphite, charcoal, pastels, pen and ink, watercolor and acrylic paint. Historical and cultural issues specific to each project will be explored. Students will be responsible for keeping a sketchbook throughout the term of the class.

## **CERAMICS AND SCULPTURE**

Year

**1** Fine Arts Credit

This course is designed to introduce the student to various techniques and methods of construction to create three-dimensional works of art. Concepts are investigated via problem-solving projects focused on the organization of space, form and mass using a variety of materials, processes and tools. The students will develop tactile and structural skills necessary for creating quality ceramics and sculptural works of art. The course will also explore historical and cultural issues specific to the medium.

## **DIGITAL ART**

Semester

**.5** Fine Arts Credit

This class is designed for students who have a background in digital photography and who are interested in further expanding their artistic development through technology and art. Basic digital photography and photo editing skills will be used to create synthesized images. Students will learn how to creatively manipulate these images with alternative photographic processes in order to transform them into original works of mixed media art. The historical development of digital media and its place in a changing society will be examined. Students will experiment with themes in art to develop and apply their own personal and creative style as they build a portfolio of work. Coursework will include: various advanced image processing and manipulation techniques, inclusion of three dimensional elements; and media explorations and methodology to combine these images with traditional art mediums.

## **CONCERT BAND**

Year

**1** Credit

Repeatable

Concert Band is a laboratory experience designed to develop and refine the fundamentals of good instrumental music performance on traditional wind band instruments. Various styles and settings of music will be used to develop proper musical practices. During the first 10 weeks, this course focuses on marching band skills and performance. During marching band, this ensemble performs at football games, parades, and other extracurricular activities. Following marching band, concert band performs as a traditional concert ensemble. The concert band holds at least two public concerts each year and may also participate in district and state band adjudicated events. Attendance at out-of-school rehearsals and performances is required. (Contact the director for a calendar of events). This course has open enrollment.

## **HONORS WIND ENSEMBLE**

Year

**1** Credit

1.1 Weighted

Repeatable

Wind Ensemble is an advanced laboratory experience designed to develop and refine the fundamentals of good instrumental music performance on traditional wind band instruments, as assigned by the director. Various styles and settings of music will be used to develop proper musical practices. During the first 10 weeks, this course focuses on marching band skills and performance. During marching band, this ensemble performs at football games, parades, and other extracurricular activities. The Wind Ensemble holds at least two public concerts each year and may also participate in district and state band adjudicated events. This course is designed for serious musicians who seek advanced musical challenges. Attendance at out-of-school rehearsals and performances is required. (Contact the director for a calendar of events).

Audition and permission of instructor is required for enrollment in this course.

## **JAZZ BAND**

Year

**.5** Credit

Repeatable

Jazz Band is an advanced ensemble that focuses on jazz, blues and rock repertoire. Jazz Band meets two mornings per week from 7:00-7:45 am as scheduled by the director. A complete schedule of rehearsals and performances will be published before the school year begins. Jazz Band is open to any student enrolled in a credit-bearing instrumental ensemble (Concert Band, Honors Wind Ensemble, Honors Chamber Orchestra or String Orchestra) who plays a traditional jazz ensemble instrument (saxophone, trumpet, trombone, percussion, guitar, bass, piano). Due to the number of participants, players may be assigned to play parts on a rotation, as needed.

Attendance at all rehearsals and performances is mandatory to receive full course credit.

## **STRING ORCHESTRA**

Year

**1 Credit**

Repeatable

String Orchestra is an ensemble designed to develop and refine the fundamentals of string instrument performance. Intermediate techniques such as shifting, vibrato, spiccato and other extended techniques will be introduced and refined. String orchestra works on various music styles including classical, pop, and folk and fiddle music. String orchestra holds at least two public concerts each year and may also participate in state and adjudicated events. This course has open enrollment.

## **HONORS CHAMBER ORCHESTRA**

Year

**1 Credit**

1.1 Weighted

Repeatable

Chamber is an advanced string and full orchestra that requires a student audition. Students will follow an advanced string orchestra curriculum for most of the year to learn and refine techniques such as higher position shifting and playing, advanced bowing styles and extended techniques. Chamber works on various music styles including Baroque, classical, romantic, modern, pop, full orchestra and fiddle music. In the spring, the orchestra will perform a full orchestra with wind, brass and percussion players. Chamber holds at least two public concerts each year and may also participate in state adjudicated events. Visit the orchestra website or contact the director for audition requirements

## **CONCERT CHOIR**

Semester or All Year

**.5 credit or 1 credit**

Repeatable

Concert Choir is a novice-level tenor and bass vocal ensemble. Singers will work on developing correct singing technique including phonation, diction, intonation, breath management and phrasing. Emphasis will be placed on singing various part divisions, reading and understanding musical notation, developing a mature choral sound, and performance skills. Music studied is selected from a variety of historic periods and styles, world cultures, including popular, sacred, classical, Broadway and folk music. Singers are required to participate in public performances throughout the year

(minimum of two per semester). This course is open to all students, grades 9-12 with no singing experience required.

## **SYMPHONIC CHOIR**

Year

**1 credit**

Repeatable

Symphonic Choir is an intermediate-level, mixed voice (treble and bass) vocal ensemble. Singers will continue to work on developing correct singing technique including phonation, diction, intonation, breath management and phrasing. Emphasis will be placed on singing various part divisions, reading and understanding musical notation, developing a mature choral sound, and performance skills. Music studied is selected from a variety of historic periods and styles, world cultures, including popular, sacred, classical, Broadway and folk music. Singers are required to participate in public performances throughout the year (minimum of two per semester). This course is open to all students, grades 9-12. While no singing experience is required, successful completion of the 8th grade choir curriculum is recommended.

## **HONORS A CAPPELLA CHOIR**

Year

**1 Credit**

1.1 Weighted

Repeatable

**Prerequisite: Audition only and permission of Instructor**

A Cappella Singers is an advanced mixed chorus whose focus is unaccompanied singing in 4-12 voice parts; strong musical notation reading skills are required. Literature studied is drawn from a variety of styles, languages and historic time periods, from early music to vocal jazz to world music, both sacred and secular. Grades are based on musical skills assessments, participation, performance, and reflection/evaluation. This ensemble has a heavy performance schedule within the school and community. The choir also participates in OMEA Adjudication activities, as well as other outside events. Open to students in grades 9-12, pending successful completion of an audition.

## **TREBLE CHORUS**

Semester or All Year

**.5 credit or 1 credit**

Repeatable

Treble Chorus is a novice-level soprano and alto vocal ensemble. Singers will work on developing correct singing technique including phonation, diction, intonation, breath management and phrasing. Emphasis will be placed on singing various part divisions, reading and understanding musical notation, developing a mature choral sound, and

performance skills. Music studied is selected from a variety of historic periods and styles, world cultures, including popular, sacred, classical, Broadway and folk music. Singers are required to participate in public performances throughout the year (minimum of two per semester). This course is open to all students, grades 9-12 with no singing experience required.

## **INTRODUCTION TO DRAMA**

Year

**1** Elective Credit

Repeatable

Drama students will be introduced to the fundamentals of acting and script analysis through a variety of creative classroom activities, including ensemble building games, pantomime, improvisation, storytelling, voice & diction, and monologue/scene work. An emphasis will be placed on the structural breakdown of plays/musicals to foster an understanding of how stories work and how characters fit into those stories. A primary goal of this course is to develop students' 21st century skills, which include: collaboration; creativity and imagination; critical thinking; effective oral / written communication; problem solving, and spontaneity. In addition to having the opportunity to demonstrate their knowledge in the classroom, students may elect to participate in our International Thespian Society troupe as well as New Albany High School theatrical productions. These activities are extracurricular, taking place after school hours, and are not a requirement for this course.

## **STAGECRAFT**

Year

**1** credit

Repeatable

This course teaches fundamental construction techniques and design skills used in the modern theatre. At the beginning of the year, students will learn the intrinsic technical components of a theatre and become acquainted with the elements of a Scene Shop, including the function and proper usage of all equipment and tools. Safety in the theatre also is a crucial component of this first unit. After this first unit, students learn specific techniques, construction of flats (Hollywood and Standard), platforms, stairs, etc. will be taught. They will learn the basics of set design and will design a mock set for one of the Drama Department's productions, elements of lighting and its design, painting techniques, properties design, sound design, and stage management are all additional topics to be covered. Students have a unique opportunity in this course to collaborate

with professional theatrical designers and technicians through our partnership with CAPA and our productions. They will work on individual projects as well as the technical elements for the musicals/plays produced by the New Albany High School Drama Department. Though all coursework is done in class, students have the option of joining the crew for the extracurricular productions.

## **INTRODUCTION TO FILM ART BLENDED**

Semester

**.5** Elective Credit

This course loosely follows the timeline of film history, beginning in the late 1890s with pioneers like Albert Einstein and culminating in an analysis of the modern-day film industry, including the dominance of the "blockbuster" and the rise of independent films and world cinema as well as the revolution of digital filmmaking (e.g. 3-D, VOD, etc). Along the way, students will study film production, types of films (e.g. avant-garde, animation, documentary, fictional), genres of films, and film form, including but not limited to: the shot, mise-en-scene, and editing. Films viewed in this course will be selected based upon their cultural significance and their importance to film history. This course will provide you with the opportunity to explore a rich and rewarding medium and will enable you to become an active and critical consumer of multimedia. Being a blended class, Introduction to Film Art requires students to complete some work online, rather than in the face-to-face setting.

## **Business & Technology**

(.5 total credits required for graduation)

### **3D MODELING, ANIMATION, & VIDEO PRODUCTION**

Year

**1** Business/Tech Elective Credit

This multimedia course allows students to explore diverse multimedia concepts that include 3D image modeling and animation, 2D animation, and video production. In each of these areas, students will observe and analyze professional products, investigate and apply related visual arts and technology skills in the development of their own products and participate in peer and self-critique efforts. Students will engage in teacher-directed activities as well as have the opportunity to investigate areas of personal interest.

## **DIGITAL PHOTOGRAPHY I**

Semester

**.5** Business/Tech Elective Credit

In this introductory course, students will create and modify images by combining the artistry of digital photography with the expressive power of Adobe Photoshop. Students will gain knowledge of the features and versatility of digital cameras as they develop their photography expertise through the investigation and application of the fundamentals of visual arts in a practical setting. Students will learn skills to further enhance their images using Photoshop; that includes re-touching, making color scheme changes, compositing, digital framing, and other manipulation techniques. This course is for students with an interest in digital photography, Adobe Photoshop and for students who would like to acquire a set of skills that can be applied to academic, professional, and personal settings throughout their lives.

## **DIGITAL PHOTOGRAPHY 2**

Semester

**.5** Business/Tech Elective Credit

**Prerequisite: Digital Photography 1 or permission of instructor.**

In this course, students will continue to build upon their skills in digital photography and photo editing. They will further develop their understanding and utilization of the capabilities of DSLR cameras, build upon their pre and post analysis and critiquing skills, and further enhance their use of manipulation techniques such as re-touching and compositing.

## **PROGRAMMING 1**

Semester

**.5** Business/Tech Elective Credit

In this course, students are introduced to the fundamentals of computer programming. Students will explore programming concepts such as input/output, data types, variables, variable scope, control logic, string manipulation, encapsulation, inheritance, and exception handling, using a line-based and syntax-based object-oriented language. Students will be introduced to the concepts of code design, development, and testing through the application of these concepts to simple games and puzzles. This course is intended for those students with little to no experience in programming or for those students who would like a refresher on these topics.

## **PROGRAMMING 2**

Semester

.5 Business/Tech Elective Credit

**Prerequisite: There is no specific course prerequisite; however, this course assumes the student has had some meaningful prior-exposure to text-based programming such as Programming 1, an online course, or other similar experience.**

The purpose of this course is to further develop programming skills for those students who have some basic programming knowledge and who would like to continue to develop their knowledge and expertise in programming. Students will further develop skills introduced in Programming 1 as well as explore additional concepts such as methods, loop control, arrays, random objects, control sets, timers, collision detection, class based concepts, maintainability and good programming practices as part of a line-based and syntax-based object-oriented language. Students will apply these concepts in their development of more advanced games and puzzles.

## **HONORS PROGRAMMING 3**

Semester

**0.5** Business/Tech Elective Credit

1.1 Weighted

**Prerequisite: Introduction to Computer Programming, Programming 2, Introductory Mathematics for Engineering Applications, or permission of instructor**

The purpose of this course is to provide a broad exposure to the Java programming language. It is intended for those students interested in further developing their programming expertise and knowledge with respect to solving more complex problems through object-oriented design. It also serves as a foundational course or experience for those students with aspirations to enroll in AP Computer Science A.

## **ENGINEERING CAD**

Semester

.5 Business/Tech Elective Credit

**Prerequisite: This course is not a prerequisite for any robotics course; however, students who enroll in this class prior to or concurrent with Honors Robotics 2 may have an enriched robotics classroom experience.**

This course introduces students to the engineering design-build process that provides hands-on experience in conventional sketching/drafting as well as computer aided design. Students will create drawings emphasizing the areas of single dimension drawings, geometric construction, multi-view projection, ANSI lettering, dimensioning, and pictorial views. Students will progress from 2-dimensional (2D) to 3-dimensional

(3D) sketching and will have the opportunity to learn and use the 3D printer to create prototypes of their models.

## **ROBOTICS 1**

Year

**1** Business/Tech Credit

In the first part of this course, students explore the integration of science and math principles by building LEGO robots and creating computer programs that enable robots to react to their environment and perform autonomous missions using motors, sensors and gears. During the second part of this course, students will have the opportunity to further enhance their design and application experience through the exploration of fabrication and design prototyping concepts. Additionally, students will be introduced to a variety of microcontrollers that can be utilized for various solutions.