

**Franklin Monroe High School**

**2017-2018**

**Course Catalog**

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Dear Students and Parents:

The purpose of this catalog is to assist parents with the student scheduling process and encourage interest in their education.

We hope this booklet will inform parents and students of the courses available at F-M, with the intent of guiding students into programs and courses that will best suit their interests and needs.

Not all courses listed in this book will be offered each year. Some courses cannot be offered due to insufficient numbers registering for the class. On occasion, some courses are closed due to a large student sign-up. When more students desire the course than can be accommodated, the class roster will be filled by the process described within this book.

We are constantly reviewing our course offerings to determine if they are meeting the needs of our student body, and we will make every effort to accommodate every student's needs.

Sincerely,

PJ Burgett  
MS/HS Principal

## GRADE LEVEL CONSIDERATION

A student, at the end of each school year, will be transferred to the next grade level homeroom. Credits earned will not be a factor in transferring students to the next homeroom level. However, a student must meet all graduation requirements by the end of the senior year to graduate.

## DEFINITIONS

Unit of Credit: Most subjects carry one (1) unit of credit. However, the amount of credit varies with the type of course, the work to be completed, and time spent in class. A unit of credit is given for a regular class that meets each day for a year.

Semester: A semester course is made up of two quarters for a total of 18 weeks class work. Each semester is divided into two nine week periods. Generally, a course that meets five periods per week for 18 weeks or a semester will provide one-half credit of unit.

Prerequisite: A prerequisite may be required prior to enrollment. For example a student must have successfully completed Algebra I prior to registering for Algebra II, etc.

Student Course Load: Students are to carry enough course work that they have no more than two (2) study halls each day. The school day will include eight periods plus homeroom and lunch.

## SCHEDULE CHANGES

Even though class changes are permitted during the first week of the semester, it is strongly recommended that the student and parents take the utmost care in preparing the registration sheets for the current school year. The Counselor and other staff members are available to answer questions from parents and students.

## CLASS ROSTERS

Some classes have limited enrollment. If more students request a class than can be admitted, a fair method of pupil selection must be implemented. That method is described below:

Example: Forty students request a class that can only admit 30 pupils. The first group of students selected is seniors who require that specific class for graduation requirements. The second group of students selected is juniors who submitted properly completed registration forms on the first day of registration. The third group of students selected is sophomores who submitted properly completed registration forms on the first day of registration. The fourth group is freshmen and the fifth group is eighth graders from the first day of registration. That same pattern continues until the class is filled.

The table below gives a summary of the process.

Grade Level	Seniors	Juniors	Sophomores	Freshmen	8 <sup>th</sup> grade
1 <sup>st</sup> day of registration	1 <sup>st</sup> priority	2 <sup>nd</sup> priority	3 <sup>rd</sup> priority	4 <sup>th</sup> priority	5 <sup>th</sup> priority
2 <sup>nd</sup> day of registration		6 <sup>th</sup> priority	7 <sup>th</sup> priority	8 <sup>th</sup> priority	9 <sup>th</sup> priority
3 <sup>rd</sup> day of registration		10 <sup>th</sup> priority	11 <sup>th</sup> priority	12 <sup>th</sup> priority	Etc.

## **PREPARING FOR COLLEGE**

Each year approximately 40-70 percent of the graduates at Franklin Monroe choose to attend some kind of post-high school-training program. Some of our students choose 6-18 month diploma programs, while others choose 2 or 4-year college programs. In order to prepare for the academic load they will face, the college student should give strong consideration to a college preparatory program at Franklin Monroe.

As a result of a report presented by the Advisory Commission on Articulation between Secondary Education and Colleges of the Ohio Board, state supported colleges have re-evaluated their entrance requirements for unconditional admission. Each state-supported university has moved in the direction suggested by the commission regarding admission requirements. However, admission requirements still vary from institution to institution. The Ohio State University appears to be setting their standards for admission closest to the recommendations from the commission, while the other state supported universities have adopted some but not all of the recommendations. Please see the table in this booklet for specific credits.

Students failing to meet these requirements may be admitted and required to make up any deficiencies during their freshman year. They may not earn credit toward their degree for these development courses. It seems obvious that these new requirements should be considered when scheduling classes.

Students who do not wish to follow such a program should carefully check the requirements of the college(s) of their choice. Students who choose not to follow a college preparatory program should be ready to accept responsibility for any deficiencies that would need to be made up at the college of their choice.

### **CREDIT FROM SOURCES OTHER THAN FRANKLIN MONROE HIGH SCHOOL**

Students seeking credit from sources other than the regular school program must consult with the high school counselor. Credit for certain subjects failed during the regulars school year may be made up in summer school, correspondence, with tutoring by a certified teacher, or in some way approved by the high school principal. The number of credits which may be earned in these ways are limited by state standards.

### **PROGRAMS AVAILABLE**

At Franklin Monroe High School there are many combinations of courses that will meet the requirements for graduation. Students will want to choose courses which will reflect their general postsecondary plans and interests. If a student is unsure which courses to choose, it is highly recommended that they schedule a meeting with the school counselor to choose courses which best align to their future goals and interests.

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## **Agriculture**

### **Agriculture, Food, and Natural Resources (AFNR)**

1.25 credits; full year; prerequisites: none

This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.

### **Animal and Plant Science**

1.25 credits; full year; Pre-Requisite Course- AFNR

This course is designed for students in grades 10-12. They will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

### **Mechanical Principles**

1.25 credits; full year; Pre-Requisite Course: AFNR

This course is designed for students in grades 10-12. They will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.

### **Agronomic Systems**

1.25 credits; full year; Pre-Requisites: AFNR and Animal and Plant Systems

This course is designed for students in grades 11 and 12. Students will apply knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined while students apply scientific knowledge of plant development, nutrition and growth regulation. The knowledge and skills needed to manage water, soils, and pests related to agronomic crops will be

assessed. Students will employ technological advances, communication, business, and management strategies appropriate for the industry.

## **Livestock Selection, Nutrition, and Management (Junior and Senior Course)**

1.25 credits; full year; Pre-Requisites: AFNR and Animal and Plant Science

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.

## **Energy Systems Management**

1.25 credits; full year; Pre-Requisite Course- AFNR

This course is designed for juniors and seniors. Students will apply basic principles of energy accounting, thermodynamics and heat transfer, energy conversion and efficiency to heating, power generation and transportation. Students will apply the principles and practices needed for managing renewable and non-renewable energy resources. Throughout this course, future energy systems and energy use scenarios are investigated, with a focus on promoting the use of renewable energy resources and technologies.

## **Business Management for Agriculture**

1.25 credits; full year; Pre-Requisite Course- AFNR

This is a senior only course. Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

**This course allows for a co-op opportunity for the students in which they can seek employment and take advantage of an early release opportunity from school to attend work.**

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## Art Department

A basic education in art is guaranteed to all public school students by the state standards. The high school art program is part of a twelve-year program in art instruction. Franklin Monroe Schools offer art for high school students. Students learn an appreciation for art and skill that can be developed over a lifetime. Fine Arts requirements may be met by successful completion of an art course.

### **Art 1**

1 credit; full year; prerequisites: none

This is a beginning course for students interested in art. A variety of art techniques will be studied. The first nine weeks will be spent drawing. The remaining three nine week periods will be spent working in some of the following areas: ceramics, acrylic painting, cartooning, print making, design, watercolor, ink, or pastel. Students should have an active imagination and a willingness to experiment and create. Students are tested in each area over terms, artists and procedures. Project grades are based on evidence of an understanding of technique and effort. Long term projects are assigned. Students participate in spring art show. Students will be taught at their level of ability.

### **Ceramics I & II**

½ credit each; 1 semester each; Prerequisite: Art I

Hand building, wheel throwing, mold making, and a variety of decorating techniques will be explored in this course.

### **Art 123: Ancient Art History (College Credit Plus)**

1 credit; 1 semester

This course presents a general view of Western art history through slide lectures, video resources and a museum visit. It selectively surveys the visual arts from prehistoric times to the Rococo, focusing on artifacts, art works, techniques, materials, styles and artists. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

### **Art 124: Modern Art History (College Credit Plus)**

1 credit; 1 semester

This course presents a general view of Western art history through slide lectures, video resources, and a museum visit. It selectively surveys the visual arts from prehistoric times to The Rococo, focusing on artifacts, art works, techniques, materials, styles, and artists. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.



## **Art 138: Ceramics 1 (College Credit Plus)**

1 credit; 1 semester; Prerequisite: Art 1

Ceramics 1 is a studio course in which students will explore a broad range of techniques and approaches to art through hand built and wheel thrown clay. Students will learn to approach ceramic artwork as both functional and decorative sculptural objects. Development of technical skills and artistic vocabulary will include: scoring, slipping, hand building (slab, coil and pinch techniques), wheel throwing, bisque firing, painting and glazing, plus the endless alternative possibilities involved with clay. Students will be required to come in outside of scheduled class time to complete projects by scheduled critique dates. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

## **Drawing**

1 credit; 1 semester; Prerequisite: Art 1

This course is an introduction to observational drawing within the context of key concepts such as the mark, perception and translation, mapping, the constructed image and invention as they relate to drawing. Students will be exposed to a wide range of drawing strategies and media in an effort to explain their critical analysis of the drawn image.

## **Basic Design**

1 credit; 1 semester; Prerequisite: Art 1

This class is intended to give you a working comprehension of the elements and principles of design. The goal of the course is for students to understand form and be able to recognize and define form within a work of art, as well as apply this knowledge to your own works of art. Besides design theory, you will also experiment with various theories of creativity.

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## **Business and Computer Technology**

### **Introduction to Business and Technology**

1 credit; full year; 9<sup>th</sup> grade required course

This is the first course for the Business and Administrative Services, Finance, and Marketing career fields. It introduces students to specializations within the three career fields. Students will obtain knowledge and skills in fundamental business activities. They will acquire knowledge of business processes, economics, and business relationships. Students will use technology to synthesize and share business information. Employability skills, leadership, communications, and personal financial literacy will be addressed. This is a required course for all freshman.

### **Business Office Management**

1 credit; full year; Prerequisite Introduction to Business and Technology, grades 10-12

Students will apply techniques used to manage people and information in a business environment. Students will learn to build relationships with clients, employees, peers and stakeholders and to assist new employees. They will manage business records, gather and disseminate information, and preserve critical artifacts. They will also examine contracts, internal controls and compliance requirements. Business office tools and applications will be emphasized

### **Fundamentals of Business Management**

1 credit; full year; Prerequisite: Introduction to Business and Technology, grades 10-12

Description: This course will introduce students to the specializations offered in Business and Administrative Services. Students will obtain fundamental knowledge and skills in general management, human resources management, operations management, business informatics and office management. They will acquire knowledge of business operations, business relationships, resource management, process management and financial principles. Students will use technological tools and applications to develop business insights.

### **Management Principles**

1 credit; full year; Prerequisites: Introduction to Business and Technology and Business Office Management

Students will apply management and motivation theories to plan, organize and direct staff toward goal achievements. They will learn to manage a workforce, lead change and build relationships with employees and customers. Students will use technology to analyze the internal and external business environment, determine trends impacting business and examine risks threatening organizational success. Ethical challenges, project management and strategic planning will also be addressed.

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## English and Communications

### English 9

1 credit; full year

General English focuses on the study of literature with an emphasis on characterization, purpose, element, structure, and genre. Writing skill sets are improved through grammar, paragraph development, essay writing, literary criticism, and genre writing. Speaking and listening skills are expanded through class presentations and multi-genre presentations. At the end of the ninth grade, students are required to complete a comprehensive writing and research project--the multi genre project.

### College Prep English 9

1 credit; full year; Prerequisite: a B average in 8th grade Language Arts class and/or permission from the 8th grade Language Arts teacher.

An intense, comprehensive study of literature and composition with a focus on higher level reading comprehension, writing, and critical thinking abilities. This course is designed to prepare the advanced English student for college level courses. The level of study is for the student who identifies to have the potential for a higher and more intense study of English. This student should be self-motivated, creative, and able to work independently. A student must be able to manage larger assignments and realize that more intense study is involved in this course. The student will be evaluated and selected by the eighth grade language arts teacher who will consider the student's abilities in composition and grammar, reading skills, and prior grade achievement in English.

### English 10

1 credit; fully year; Prerequisite: completion of English 9

General English 10 continues to build the skill set learned in English 9. English 10 contains more focus on composition, grammar, and writing than English 9. Speaking and listening skills are expanded through class presentations and multi-genre presentations. At the end of the tenth grade, students are required to complete a comprehensive writing and research project--the multi genre project.

### College Prep English 10

1 credit; full year; Prerequisite: a B average in 9CP and with permission from the 9th grade English teacher.

An accelerated class that requires elevated writing skills, reading comprehension, and critical thinking abilities to be utilized. This course contains a focus upon composition and rhetoric to showcase the explication of both fiction and nonfiction texts in preparation of college level courses at a higher education institution. This student should be self-motivated, creative, and able to work independently. Students must be able to manage larger assignments and realize that more intense study is involved in this course.

## **English 11**

1 credit; full year; prerequisite: completed English 9 and 10

English 11 focuses on the study of American literature with an emphasis on theme and the author's voice. Writing skill sets are improved through essay writing, literary criticism, and genre writing. Speaking and listening skills are expanded through class presentations and discussions. At the end of the eleventh grade, students are required to complete a comprehensive writing and research project.

## **English 12**

1 credit; full year; prerequisite: completed English 9, 10, and 11

English 12 focuses on the study of British literature and the history and development of the English language. Literature selections have an emphasis on theme and the author's voice. Writing skill sets are improved through essay writing, literary criticism, and genre writing. Speaking and listening skills are expanded through class presentations and discussions. At the end of the twelfth grade, students are required to complete a comprehensive writing and research project.

## **ENG 121: Composition 1 (College Credit Plus)**

1 credit; full year and semester options available

This course involves writing based on critical reading skills, primary research techniques, and the student's own personal experiences. Such writings may include explanation, commentary, interpretation, analysis, and review. All writing will stress standard English, organization, and style. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

## **ENG 122: Composition 2 (College Credit Plus)**

1 credit; 1 semester; Prerequisite: ENG 121

This course focuses on the composition of formal essays, reviews, and reference papers based on the study of logic and library research. Writings will stress organization, the logic of argument, referencing techniques, and the use of standard English. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

## **ENG 224: Journalism (College Credit Plus)**

1 credit; full year; students will need to be members of Sonic Sound

This is the study of journalistic traditions, ethics, culture, and conventions. Students will also focus on news writing, editing, and design for both print and electronic media. Students who are in journalism are required to be members of Sonic Sound, the school newspaper. Students who would like to be involved with Sonic Sound are highly

encouraged to take Journalism. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

### **ENG 229: Creative Writing (College Credit Plus)**

1 credit; full year; prerequisites: none

In this course students will focus on identifying the qualities found in most creative writing and strive to understand the necessity of writing for a specific audience. Students will also define the differences poetry, prose, and creative nonfiction, while at the same time identifying a variety of plot outlines. Students will also recognize organizational techniques used and the difference between traditional, blank, and free verse. In addition to studying works of creative writing, students will also practicing writing in a variety of styles and different voices. This course requires students to discipline themselves to produce a variety of work within the given time frame and appreciate the critical review process while learning to critique their own work. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

### **COM 121: Fundamentals of Communication (College Credit Plus)**

1 credit; full year; prerequisites; none

This course is designed to help the student accomplish the following things as they relate to public speaking. Students will compare several conceptual models of the communication process and devise appropriate topics for speaking through self-awareness and audience analysis. They will also select language and organize communication in ways which promote rhetorical effectiveness in particular situations. Students will also demonstrate active listening skills and nonverbal behavior that is congruent and effective. This course is a communications credit and does not count as an English credit towards graduation. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

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## Foreign Language

### **Spanish 1**

1 credit; full year; prerequisites: none

Students will acquire vocabulary, reading skills, writing skills, and conversation ability. Oral drill, role-play, dialogues, and group work will lead students to speak, read, write and understand useful Spanish. Aspects of Spanish culture will be studied throughout the year.

At the completion of Spanish 1, Students will be expected to have an understanding of common expressions, reading and writing skills and a feel for Spanish cultures. Students should expect to participate orally in class. Exams will be written and oral.

### **Spanish 2 (College Credit Plus)**

1 credit; full year; prerequisite: C average in Spanish 1 or Spanish teacher's approval

Students will review first year vocabulary and grammar throughout the second year. Additional tenses of speech will be studied. Students will acquire more vocabulary, and participate to improve conversation skills. Students should have a better understanding of Spanish cultures. Exams will be both written and oral. Students can receive 3 semester hours from Urbana University in addition to high school credit.

### **Spanish 3 (College Credit Plus)**

1 credit; full year; Prerequisite: C average in Spanish 2 or Spanish teacher's approval

This course is available for the student who wishes to continue his or her study of Spanish beyond the point of simple conversation and memorization. Students will become acquainted with the well-known Hispanic authors and art. Students can receive 3 semester hours from Urbana University in addition to high school credit.

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## Health and Physical Education

### Health

½ Credit; 1 semester; Grade 10; Prerequisite: none

Health education in the tenth grade places emphasis on having the knowledge and skills to make healthy decisions on current health issues students' face in everyday life. Health skills covered during the course include: key concepts, analyzing influences, accessing valid health resources, interpersonal communication, decision-making, goal-setting, self-management, and advocacy skills. Topics covered during the course include: foundations of health, mental/emotional health, healthy relationships, nutrition/physical activity, personal care/body systems (anatomical gifting), growth and development, alcohol and other drugs (HOPE), diseases and disorders (STDs), instruction in CPR (applying hands-on skills) and the use of an automated external defibrillator (AED), and safety/environmental health. All content is aligned with the National Health Education Standards and state requirements.

### PHYSICAL EDUCATION:

¼ Credit; 1 semester; prerequisite: none

High school physical education encourages students to value and know the importance of a physically active lifestyle. Throughout the course students will participate in various team/individual sports, recreational activities, resistance training, and physical fitness. An emphasis will be placed on the following: competency in motor skills, strategies and tactics, fitness, responsible personal and social behavior, and ability to value physical activity. The goal of this course is to develop all students into being a physically literate individual. All content is aligned with the Ohio Physical Education Standards.

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# Mathematics

## Algebra 1-A

1 credit; 1 full year; prerequisite: none

This course is designed to give the beginning high school math student a basic introduction to Algebra. This course will cover approximately the first half of Algebra 1. It is designed to cover the material in a less structured fashion and at a more leisurely pace. All students completing Algebra 1-A are expected to move to Algebra 1-B. A scientific calculator is required.

## Algebra 1-B

1 credit; full year; Prerequisite: Algebra 1-A

This course is designed to follow Algebra 1-A. Like Algebra 1-A, Algebra 1-B will break up the Algebra concepts into smaller, less comprehensive segments. By the end of this course, the student will have covered all material in Algebra 1, allowing the students to continue in the mathematics sequence. A scientific calculator is required.

## Algebra 1

1 credit; full year; prerequisite: none

Algebra I will study numbers and the axioms of Algebra. Emphasis will be placed upon working with real numbers, variables, solving equations and inequalities, working with polynomials, factoring polynomials, working with fractions, graphing and story problems. A graphing calculator is required. Any student who plans on attending college should begin their math sequence in Algebra I.

## Applied Geometry

1 credit; full year; Prerequisite: Algebra 1 or Algebra 1B

This course will use algebra skills to integrate properties of lines, angles, and figures. This course will focus on applying concepts of Geometry. Topics of study will include angle relationships, parallel lines, polygons, circles, coordinate geometry and congruent triangles. A scientific calculator, compass, protractor and ruler are required.

## Algebra 2

1 credit; full year; Prerequisite: Algebra 1 and Geometry

Algebra 2 takes off where Algebra 1 ends. It studies first and second degree equations, functions, relations, factoring of polynomials, solving systems of linear and quadratic, irrational equations, radicals and imaginary numbers, the conics, probability, elementary



statistics, and trigonometry. Content material from geometry will be review each week. A graphing calculator is required.

### **College Prep Pre-Calculus**

1 credit; full year; prerequisites: Algebra 1, geometry, and Algebra 2

Pre-calculus is a full year course designed to prepare the college-bound student for work in higher mathematics. The three major topics of the course will be trigonometry, analytical geometry, and advanced algebra. A graphing calculator is required.

### **MTH 221: Calculus (College Credit Plus)**

1 credit; full year; prerequisites: pre-calculus

This course provides an introduction to differential and integral calculus. Includes differentiation and integration of algebraic and transcendental functions with applications to science and engineering. Students can earn 5 semester hours at Edison State Community College in addition to high school credit.

### **Consumer Math**

1 credit; full year; prerequisites: Algebra 2

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## Music

### **BAND**

1 credit; 5 periods per week plus additional time outlined by instructor; full year; grades 9-12; prerequisite: junior high band or permission of instructor.

Development of band ensemble, preparation of band literature, contests and concerts as scheduled by instructor. Concert band members are required to participate in pep band. Activities include: concerts, contests and exhibitions as planned by instructor, performance at graduation and June community Memorial Services. All band members must purchase a uniform. Cost will be kept to a minimum.

### **Jazz Band**

1 Credit; 5 periods per week plus additional time outlined by instructor; 1 full year; Grades 9-12; Prerequisite: Concert band and/or permission of the instructor

Course focuses on learning the difference between jazz and classical playing while further developing skills introduced during concert band by applying them to jazz music. Students will begin to learn solo improvisation and learn to play in a smaller ensemble. Jazz band performs at all typical concert band performances (Winter concert, Cookie Concert, and Spring Concert), as well as any additional performances seen fit by the instructor.

### **Choir**

1 credit; 5 periods per week plus additional time outlined by instructor; 1 full year; Prerequisites: audition or permission of instructor

Components include: determination of vocal range, development of individual and group vocal skills, preparation of sacred and secular choral literature, presentation of concerts and programs scheduled by instructor. Activities include: Winter concert, spring program, District solo & ensemble, Coffee Houses, and trips as deemed appropriate by instructor.

*\*\*\*Independent study choir is available only to students who have class conflicts that cannot be resolved; permission of instructor only. (Class credit may vary)*

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## Science

### **Physical Science**

1 credit; full year; Prerequisites: none

This course is a graduation requirement and introduces students to basic chemistry and physics concepts. Many of the experiments are later encountered in chemistry and physics although on a more sophisticated level. The main topics are motion, energy, waves, light, electricity, magnetism, heat, the structure of matter, atomic and molecular structure, chemical change and bonding, acid-base chemistry, and organic chemistry. Laboratory demonstrations and experiments are used extensively to reinforce textbook concepts and reading assignments.

### **Biology**

1 credit; full year; Prerequisites: Physical Science

This course is a graduation requirement and an end-of-year AIR test will be administered for graduation test points. In this course emphasis is placed on the basic problems faced by all forms of life. The major areas studied are the chemical and cellular basis of life, genetics, evolution, and ecology. This class is AIR tested and is a graduation requirement. Class size is limited to 24 students. The process described in this catalog will be used to fill available seats. If needed, the final GPA in Physical Science will be used as a selection method.

### **BIO 207: Biology (College Credit Plus)**

1 credit; full year; Prerequisites: Physical Science

Biology is a graduation requirement but the additional Urbana credit is not. An end-of-year AIR test will be administered for graduation test points. In this course emphasis is placed on the basic problems faced by all forms of life. The major areas studied are the chemical and cellular basis of life, genetics, evolution, and ecology. Class size is limited to 16 students. This class is AIR tested. The process described in this catalog will be used to fill available seats. If needed, the final GPA in Physical Science will be used as a selection method. Students can earn 4 semester hours from Urbana University in addition to high school credit.

### **BIO 251-252: Anatomy & Physiology (College Credit Plus)**

1 credit; full year; Prerequisites: Physical Science and Biology

This is an advanced science course. BIO 251 will be completed during the first semester and BIO 252 will be completed during the second semester. It is a preliminary investigation into the structure and functions of the human body. Emphasis is placed on cells, tissues, skin, skeletal, muscle, nervous and sensory organs. Lab portion and

dissection included. In addition to high school credit, students can earn up to 8 semester hours through Urbana University.

### **CHE 216: Chemistry (College Credit Plus)**

1 credit; full year; Prerequisites: Algebra 1, Physical Science (C average or higher)

Chemistry may be defined as the study of matter and the changes that occur during chemical reactions. This course is designed to provide the student with a fundamental understanding of the concepts and principles of modern chemistry. Some of the main topics covered in this course are the language of chemistry; formulas and chemical equations; the behavior of the gases; solids and liquids; chemical periodicity; atomic structure; chemical bonding; molecular structure; chemical energy; chemical kinetics; chemistry of water, and acid-base chemistry. Laboratory work is emphasized in the course and students are expected to develop proper laboratory techniques. In addition to high school credit, students can earn 4 semester hours from Urbana University.

### **PHY 201: Physics (College Credit Plus)**

1 credit; full year; Prerequisites: Algebra 2, Physical Science (C or higher average), Biology

Physics follows a logical, sequential development of major physics principles. An introductory physics course on the fundamental principles of classical mechanics. Topics include reference frame, units of measure, scalars and vectors, kinematics, Newtonian mechanics, statics, equilibrium, dynamics, work, energy, impulse, linear momentum, conservation of linear momentum, collisions, torque, angular momentum, conservation of angular momentum, and gravitation. The material to be covered is all or parts of chapters 1 through 12. A solid understanding of mathematics is necessary to understand physics. Therefore, it is desirable that physics students have successfully completed algebra and geometry. In addition to high school credit, students can earn 4 semester hours from Urbana University.

### **STEM**

1 credit, full year, Prerequisites: none

This class is not a graduation requirement but does count towards the three science credits needed to graduate. The goal of STEM is to foster a learning environment in which students are guided to produce original ideas, objects, and structures according to certain specifications using concepts and skills from math, science, engineering, and technology. Students will spend the majority of their time designing and experimenting to meet project guidelines. Science fair participation is also mandatory for students enrolled in this course.

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## Social Sciences

### **American History**

1 credit; full year; prerequisite: none

In the freshman year, social science is primarily concerned with the chronological study of American history from the Industrialization of America in the latter half of the 19th century to modern times. Students should come to understand how and why America built what we now enjoy, and to appreciate the advantages, which are theirs by virtue of the fact that they are American citizens. The effect of the past on the present is recognized; the effect of the present on the future is implied.

### **U.S. Government**

1 credit; full year; prerequisite: none

American Government is the study of our government at all its levels: national, state, and local. The functions of the three levels of governments and their operation within the federal systems are studied. Much attention is given to the constitution and its role in our lives, especially in the area of civil rights. Through a discussion of current events, students are encouraged to discover for themselves how our political system functions and how fortunate they are to be a part of it. A new emphasis is being placed on the critical issue of citizen participation in a democratic society.

### **HST 201: United States History 1—1492-1865 (College Credit Plus)**

1 credit; 1 semester; prerequisite: none

A survey of United States history from its colonial beginnings through the Civil War. The general political, constitutional, social-intellectual, cultural and economic development of the nation will be examined. Special attention will be given to the following topics: Americanization of the colonies and the New Republic, the institution of slavery, emerging nationalism, reform movements, continental expansion, sectionalism and civil war. Students can earn 3 semester hours from Urbana University.

### **HST 202: United States History 2—1865-present (College Credit Plus)**

1 credit; 1 semester; prerequisite: none

A survey of the United States history from 1866 to the present time. The general political, constitutional, social-intellectual, cultural and economic trends of the nation will be examined. Students can earn 3 semester hours from Urbana University.

## **HST 222: World Civilizations 2 (College Credit Plus)**

1 credit; 1 semester; prerequisite: none

A survey of the major historical periods circa 1500C.E. to the present in order to gain greater familiarity with the civilizations and the development of modern globalization as well as the interrelationships of the cultures, political systems, economies and ideas which helped to shape the trends. Students will explore the roots of the modern world through the combination of lecture, discussion and critical analysis of the civilizations and their interactions from the rise of Europe to the present. Students can earn 3 semester hours from Urbana University.

## **POS 204: American Government (College Credit Plus)**

1 credit; 1 semester; Prerequisite: None

An overview of the structure of the American Constitutional and governmental system. This includes the origins of the Republic, roles of the President, Congress, Supreme Court, civil liberties, civil rights, the news media, public opinion, current events and public interest groups in the political system.

## **You and the Law**

½ credit; 1 semester; prerequisite: government

A survey of law that is of practical use in everyday life. You and the Law is designed to provide you with an understanding of your legal rights and responsibilities when it comes to everyday purchases, leases, contracts, marriage, divorce, crime and traffic violations that bring regular citizens in contact with United States laws. Students will also explore important historical crimes and major legal conspiracies that are part of the United States' historical crime history.

## **PSY 121: Introduction to Psychology (College Credit Plus)**

1 credit; 1 semester; Prerequisite: none

This course is the introduction to the scientific study of behavior and mental processes with an emphasis on personality, learning and memory, Psychology is the study of the behavior and thinking of individuals. Areas of interest include personality, motivation, learning and perception. In this field of study, as in the study of Sociology, students will be asked to use higher-order thinking skills and to participate in stimulating class discussions. Students will write extensively and in great detail and will periodically conduct psychological experiments and research.

## **PSY 221: Abnormal Psychology (College Credit Plus)**

1 credit; 1 semester; Prerequisite: PSY 121 Introduction to Psychology

Abnormal psychology is the scientific study of psychopathology and the root causes of psychological disorders associated with distress and impairment which is not typical or culturally expected. Emphasis is on the general types of disorders including mood, dissociative, Freudian, cognitive dysfunction, and others. The student will learn the differentiations and commonalities of psychological dysfunctions and know the basic elements of each large category of “mental illness” and the various explanations from each major school of psychological theory. In the end, the student will learn to appreciate the wide spread reasons for mental illness, the day to day life of those who suffer from mental illness, and the various ways that such patients cope with their problems and how they find ways to return to a balanced state of mental health. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

## **PSY 227: Developmental Psychology (College Credit Plus)**

1 credit; 1 semester; Prerequisite: PSY 121 Introduction to Psychology

Developmental psychology is the scientific study of how and why human beings change over the course of their life time. The operative phrase is “from conception to death.” Students examine changes in three major dimensions: physical development, mental development, and emotional development. Primary emphasis is on such diverse topics as: Nature vs. Nurture; Freudian Psychosexual Development as opposed to Erikson’s Psychosocial Development; and how psychological schools such as behaviorism, humanism, and cognitive psychology complement and expand on basic premises. The student will be aware of and study growth from infancy, to adolescence, to maturity and into the growing new field of gerontology. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

## **PSY 230: Social Psychology (College Credit Plus)**

1 credit; 1 semester; Prerequisite: PSY 121 Introduction to Psychology

Introduction to the study of social psychology emphasizing how individual and social interactions influence one another. Topics include social cognition; attitudes; conformity and obedience; group processes; pro-social and antisocial behavior; stereotyping and prejudice; and the creation and influence of culture. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.