ELECTIVE OFFERINGS 2022-2023

Art

Studio Art 6100

Students will experience a variety of art making techniques and processes that will emphasize the organization of the elements of art and principles of design. In addition, description and critical analysis of artwork will be stressed. The Studio Art course addresses a broad range of art related issues and media including the relevance of art history. Materials to be used will be, but not limited to, pencil, marker, watercolor, acrylics, tempera, color pencil, pastel, scratch board, clay, and collage. Projects will include work from observation and the imagination. Studio Art is a foundation course for all students grades 9 - 12 seeking a major sequence in Art for graduation. This one credit course corresponds to the New York State syllabus and addresses the learning standards for the arts.

Sculpture 6165

This is a foundational art course revolving around three-dimensional media. Students will explore a variety of materials and learn basic techniques to construct structurally sound sculptural artworks. Some media included, but not limited to, are cardboard, paper-mâché, clay, and wire. In addition to creating artworks, this course also involved thorough brainstorming (drawings with annotations), researching artists, writing reflections, and analyzing artworks using learned art vocabulary.

Drawing for Design 6105

This technically oriented drawing class is a recommended prerequisite for students grades 9 - 12 interested in Architecture, Interior Design, Landscape Design, Drafting, Engineering, Industrial Design, Fashion Design, Textile Design, CAD Technology, Botanical/Medical Illustration, and Graphic Design. The universal language of design will be explored throughout the year. Students will begin by developing excellent skills in drawing with the use of drafting instruments. This valuable course demands discipline, serious attitude, innovation, and creativity. Students will learn the methods of linear projection so that a visually descriptive language becomes available to them. Projects may include Product Design, Package Design, Transportation Design, Fashion, and Interior Design. Students will examine and appreciate the processes and rich history of design and its application.

Drawing & Painting 6110

PREREQUISITE: Studio Art

Students are expected to demonstrate technical skills, creative growth, and an increased mastery in concept, composition, and execution of ideas. Students will explore a variety of drawing and painting techniques and processes that will emphasize the organization of the elements of art and principles of design, as well as, quality. The Drawing and Painting course addresses a broad range of 2-dimensional art related issues and media. Materials to be used will be, but not limited to, pencil, charcoal, marker, Conte, chalk pastel, oil pastel, color pencil, watercolor, tempera, acrylics, oils, and collage. Work to be performed will include work from observations and the imagination. In addition, students will be encouraged to develop their own personal ideas and engage in critical thinking and problem solving, as well as, critical analysis of artwork.

Glass & Metals 6115

PREREQUISITE: Studio Art

This course explores traditional and non-traditional uses of metals and glass. Artistic design concepts and the elements and principles of art will be stressed though the development of both 2-dimensional and 3-dimensional studio project. Project in metal repousse, glass mosaic, stained glass, copper enamel, metal-smithing and sculpture will be explored.

Photography 6119

PREREQUISITE: Studio Art or Drawing for Design

During this course students will explore the world of Photography; both the Art and Science of creating an image. First semester will consist primarily of the process of black and white film development. Students will learn how to use a 35mm camera, load film, develop film, and create enlargements. We will study and explore photograms, pinhole cameras, the history of photography, and well-known photographers of both past and current. During the second semester digital photography will be explored, as well as, software for developing and editing photographs such as Adobe Photoshop. Throughout the year you will learn how to create photographic works through use of light, equipment, and composition. There are 35mm cameras in the Art Department for students to use. You may sign these out once you have learned how to use the equipment correctly and care for it. If you have your own 35mm camera you may use that as well. In addition, to the mechanical aspects, students are urged to improve their understanding of the aesthetic qualities of photographic composition, design, and mood producing visual qualities.

AP Art 2D Design 6161
AP Art 3D Design 6162
AP Art Drawing Portfolio 6163

PREREQUISITE: Studio Art plus 1.0 additional art credit
AP Studio Art is designed for the student seriously interested in the practical experience of making art. This program requires a significant amount of commitment and dedication from the students. Expectations for students achievement are high and equal to an introductory college level course. Students will work toward the development of a comprehensive Studio Portfolio that may meet particular entry level college course requirements. In building the portfolio, students will experience a variety of studio techniques and processes that will emphasize the organization of the elements of art and principles of design, as well as, quality. Students will be encouraged to engage in critical thinking and problem solving, thus becoming independent thinkers through the means of making art.

Business

Intro to Business 6203

This course will introduce you to the world of business and help prepare you for the future. Skills acquired in this course are designed for all students-regardless of future endeavors. This course introduces students to how business functions in today's society and will provide a foundation for other business courses. Throughout the semester, our class will explore a variety of aspects the world of business has to offer including, but not limited to…forms of business ownership, ethics, decision-making, and business from a global perspective. In addition, students will participate in a variety of hands-on projects and business simulations that will help develop critical analytical skills. This course has a work-study component that allows students to earn 1.0 credit for being employed now or in the future.

College Comp Skills/BUS 171 6204

Gain college credit while learning essential computer skills used in the world of business and in college. This course is designed for students to fully utilize the Microsoft Office Suite—Excel, PowerPoint, Word and Access. Students will begin by learning proper computer keyboarding techniques to type more efficiently and with better accuracy and will go on to learn about formatting business documents, creating and editing spreadsheets, database management, and how to make business presentations. Students will leave this course with business and computer skills imperative for their future college coursework or any workplace. BUS 171 is a college bridge course available for college credit through SUNY Ulster. The cost of registration with SUNY Ulster for 3.0 credits is $195 or $15 for students on free/reduced lunch.

AP Computer Science 6706 (1 credit business, math, or science)

PREREQUISITE: Intro to Computer Science or passed Algebra I with a B or better.
The purpose of this course is to prepare students for the Advanced Placement Computer Science Principles exam in May. The test is part of a nationally recognized program in which students may earn college credit by taking an accelerated class while still in high school. This course will give students the opportunity to explore several important topics of computing using their own ideas and creativity.

Students will explore how computing and technology can impact the world around them, learn and apply the foundations of computer science to address real-world problems, pursue personal interests in digital projects that showcase their creativity. Students will complete two performance tasks during the course. The purpose of the AP course is to prepare students for the AP exam in May. The cost for the AP exam is approximately $96.

Marketing 6216

Have you ever purchased a product, seen a commercial, or watched the show Shark Tank? If so, you have been exposed to marketing. Marketing is the action of promoting and selling products. In this introductory business course, students will learn that marketing is more than just advertising. It involves the invention and development of new products, determining prices, finding out what customers really want, how to make a profit, and getting products from the manufacturer to the end user. Students will gain experience in business, explore careers in marketing, and find out what it takes to be an entrepreneur.

Advanced Marketing 6217

PREREQUISITE: Marketing

This course allows for individualized study of marketing topics. Students can choose topics of study such as: tourism, fashion merchandising, marketing management, product planning, employee training, entrepreneurship, or others. Assignments and projects may include: writing a business plan, researching and analyzing marketing campaigns, completing a written D.E.C.A. event, or managing the school store.

Money Management 6245 (1 credit business or math)

Looking to make a fortune in your career? Then this course is for you! Students in this course will develop successful financial goals and go through a finance simulation where they take care of their finances, invest and plan for their wealthy future. Students will learn the foundations of financial planning and discuss how to manage their finances, income taxes, investment methods, and retirement/estate planning. Students will also "play" the Stock Market Game.

Sports & Entertainment Market 6225

Are you a sports fan? In this course students will learn about the business and promotion sides of the sports and entertainment industries. Students will be introduced to basic marketing and business terms through techniques used to promote and market sports. Topics include: sports current events, tourism, event planning, managing a sports franchise, ethical issues in sports, advertising and promotion.

Criminal Justice 6230

This course focuses on the many subsystems in the criminal justice system and their effects on students' lives. Students will examine criminal justice procedures and their role in police work as well as investigate the steps of the judicial process. Students also will have the opportunity to learn from guest speakers and take trips to local and state agencies. Ethics, problem solving skills, analysis, teambuilding and communication skills are incorporated in every lesson. In addition, police work, court procedure, corrections and the history of the criminal justice field are also covered.

Business Math 6246 (1 credit business or math)

This course is designed to help students develop mathematical skills through practical applications and activities that emphasize the application of mathematics in many types of real-world endeavors. It is applicable for today, every day, and for the rest of your life. Topics may include: earnings and taxes, checking and savings accounts, loans, insurance, installment versus credit purchases, automobile expenses and housing expenses. It is a must-take class for those going to college or entering the workforce upon graduation.

Health

Adv. First Aid & CPR 6407 (0.5 credit)

This course will give students a comprehensive understanding of advanced first aid and CPR/AED concepts. Completion of the course will result in certifications from the American Safety Health Institute (ASHI) in Advanced First Aid and CPR Pro. This course is ideal for students who wish to babysit, join their local volunteer fire department, lifeguard, or are interested in a health or service profession.

Math

Intro to College Math 4350

PREREQUISITE: Algebra I course with Regents exam

Intro to College Math is a course designed to provide students with the opportunity to learn advanced topics in math without the pressure of the Common Core Regents curricula and exams. Students will explore in depth Geometry and Algebra II topics giving them the proper preparation for SUNY Ulster's Math 115 (College Algebra II and Trigonometry). Units discussed include Radicals, Polynomials and Algebraic Fractions, Equations and Methods of Solving, Right Triangle Trigonometry, Matrices, Coordinate Geometry, and Statistics and the Normal Curve. After completing this course, we recommend students take Math 115, although students will have the option of taking Math 115, Geometry or math electives.

Math 115 4450

PREREQUISITE: Algebra I course with Regents exam, and Introduction to College Math or Geometry course with Regents exam.

Math 115 is a one-year course offered at Onteora through the Bridge Program with SUNY Ulster. Successful completion of this course may earn students 4 college math credits from SUNY Ulster. The goal of this course is to provide a foundation in algebra for students pursuing liberal arts programs in college. This course meets the SUNY general education requirements for mathematics. Topics in this course include linear and quadratic equations; absolute value and polynomial inequalities; coordinate geometry of the line and circle; linear and polynomial functions; techniques of graphing; exponential functions; logarithms; right triangle trigonometry; trigonometric functions of any angle; and fundamental trigonometric identities.

Music

Foundations of Music 6560

Foundations of Music is a course that is split between two semesters. The first semester covers music theory and the second semester focuses on the study of music history in western civilization. In the first semester students learn about different types of clefs, notes and rest values, rhythm patterns, key signatures, various types of scales, and choral harmonies. Students learn to dictate rhythms, melodies, and compose an original composition. In the second semester, students study all of the major historical time periods in music history (Medieval, Renaissance, Baroque, Classical, Romanic, and 20th Century) along with important composers of the past.

Music in Our Lives 6555

Music in Our Lives is a yearlong course, which covers the knowledge and characteristics of music. The goal of this course is to help students understand the social uses of music and to value music accordingly. Students will study a wide range of music representative of many styles and cultures. The contribution of technology (computers, recording devices, amplification, electronic instruments, etc.) in music and society will also be discussed. The musical heritage of America from the time of the Civil War to present day will be studied in depth along with learning to play the piano keyboard at a basic level.

Chorus 6525

Chorus is an experience in music performance using music from a variety of time periods and styles. Students will learn to read and write music as they improve their vocal skills. In addition to regular classes, students receive individual attention by meeting four to five times each quarter in small groups. Evening school concerts are scheduled each winter and spring.

Philharmonic Orchestra 6540

Orchestra is a course in music theory and performance. Students in this course need to have previous experience in reading music and performing with an ensemble. This course will continue to build on the previous skills learned which include reading and listening to music, music theory, sight-reading, and pedagogy. Students will also focus on time management, cooperation, and organizational practices. There is also an emphasis on integrating the math, language, and science fields through the reading of rhythms and the understanding of music terminology and sound production. The Orchestra Curriculum also requires meeting four of five times each quarter in smaller group lessons for more individualized attention.

Wind Ensemble 6500

The Wind Ensemble is a musical organization that rehearses many types of marches, Broadway show selections, movie and TV selections, and pop music of today.

Piano I 6570 (0.5 credit)

Piano I is a half year course designed for the beginning piano student. The class uses a workbook created for adults, employing songs in a variety of musical styles to teach basic note reading and playing technique. Students work at their own pace and are encouraged to bring in songs they wish to learn.

Piano II 6571 (0.5 credit)

PREREQUISITE: Piano I or permission of instructor
This course is intended for students who have completed Piano I. Exceptions will be made for students with previous piano training on a case by case basis. The textbook will consist of the second level book in the Alfred Adult Piano Course. Students will continue the study of music theory and learn more advanced playing techniques. Students will learn and perform at least 20 piano pieces of varying styles.

Guitar I 6575 (0.5 credit)

Introduction to Guitar is both a theory and performance-based class. In the first half of the course, students will start out learning proper guitar hold, posture, and tuning. Students will then progress to basic notes on the guitar and basic guitar chords both individually and as an ensemble. In the second half of the course, repertoire will include basic folk songs and progress to contemporary music as reading and playing ability increases. As a final project, students will have the opportunity to write and perform their own song based on the music theory learned throughout the course.

Guitar II 6576 (0.5 credit)

This course is a continuation of the Guitar I course. Students will study advanced techniques and music building on the skills they mastered in the first course.

Science

Science of Survival 3509 (0.5 credit)

How prepared are you to deal with the issues of today? Read and watch the news - environmental, biological, chemical and geological disasters happen every day. Most often these issues are met with ignorance, panic, denial and complacency. When you live within your strengths, push your limits and practice your weaknesses with an eye on the current global situation, you will be prepared for anything. Topics will include shelter building, water filtration and purification, fire-by-friction, wild edibles, wild medicinal, tracking, movement, awareness and orienteering.

Advanced Science of Survival 3510 (0.5 credit)

PREREQUISITE: grade of 80+ on SOS
This course is designed as a continuation of the content taught in the SOS course. Much more emphasis will be placed on doing as opposed to knowing. We will dive more deeply into the skills necessary to make any wilderness environment your home. Topics will include shelter building, water filtration and purification, fire-by-friction, wild edibles, wild medicinals, tracking, movement, awareness and orienteering.

Robotics 3507
PREREQUISITE: 10th, 11th, and 12th graders only
The objective of this course is to use a hands-on approach to introduce the basic concepts in robotics. A robot is an electro-mechanical machine. Programming and building robots applied science, technology, engineering and math (STEM) concepts. Students will be taught physical concepts of motion, force, simple machines and circuitry. Students will be using teamwork, problem-solving and project management skills to complete various challenges. No prior experience with programming or electronics is required.

Forensics 3500 (0.5 credit)
PREREQUISITE: Living Environment and Earth Science. Chemistry is suggested.
Focus on the application of scientific methods and techniques to crime and law. Recent advances in scientific methods and principles have had an enormous impact upon law enforcement and the entire criminal justice system. In this course, scientific methods specifically relevant to crime detection and analysis will be presented.

Anatomy 3505 (0.5 credit)
PREREQUISITE: Living Environment and Earth Science. Chemistry is suggested.
Two complimentary branches of science - anatomy and physiology - will provide the concepts to better understand the human body. Laboratory dissections will facilitate the study of anatomy, and laboratory experiments will be performed to better understand physiology. Completion of this course will prepare the student for future courses in medical and allied health fields.

Physics 3400
PREREQUISITE: Living Environment, Earth Science, Algebra, and Geometry.
Physics is the study of matter and energy in the universe. Students will learn to use mathematics to describe and predict natural phenomena. This course encompasses the topics of Mechanics, Energy, Electricity, and Magnetism, Waves, and Modern Physics. Due to the mathematical nature of the Physics curriculum, students should have completed or be currently enrolled in Algebra II.

AP Physics 1 3730
REQUIRES AP CONTRACT AND COMPLETION OF SUMMER WORK
PREREQUISITE: Living Environment, Earth Science, Chemistry, and Algebra.
AP Physics 1 is an algebra-based, introductory college-level physics course designed by the College Board. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound. This course may be taken by accelerated juniors and seniors choosing to skill Regents Physics. Students must possess strong mathematical skills and an aptitude for scientific concepts. The purpose of the AP course is to prepare students for the AP exam in May. The cost for the AP exam is approximately $96.

AP Environmental Science 3720
REQUIRES AP CONTRACT AND COMPLETION OF SUMMER WORK
PREREQUISITE: 11th and 12th graders only
AP environmental science is an interdisciplinary course that combines elements of biology (especially ecology), chemistry, the earth sciences, political science, sociology, demography (human population),

agriculture, forestry, energy production and use, and a number of topics that are often missed in other high school classes. Special emphasis is placed on local watershed issues; field trips include water testing and participating in research symposia with students from around the state. The purpose of the AP course is to prepare students for the AP exam in May. The cost for the AP exam is approximately $96.

AP Chemistry 3710

REQUIRES AP CONTRACT AND COMPLETION OF SUMMER WORK
PREREQUISITE: Living Environment, Earth Science, Chemistry, Algebra, and Geometry
Advanced Placement Chemistry is a curriculum designed to replace a college level general chemistry course. The content and exam are established by the College Board and include such topics as the Structure of Matter, Reactions, and Descriptive Chemistry. The laboratory experience will also be college level. Students in AP Chemistry should plan on spending at least one hour per evening. This time should be spent reading the textbook, doing homework, studying for tests, reading experiment procedures to be performed, writing laboratory reports, and revisiting the day's lesson, as students would in college. The purpose of the AP course is to prepare students for the AP exam in May. The cost for the AP exam is approximately $96. Due to the difficult nature of this course, a minimum grade of 85 on the Chemistry Regents exam, or permission of the instructor is required.

Social Studies

Cinema Studies 2511

This class will be a thematic exploration of film. Why are there waves of vampire films or westerns or alien films? We will look at patterns and themes of race, class, gender, etc. in film. This class is offered alternating years with Film History.

Mythology 1511 (0.5 credit)

From tragic heroes to tricksters, love to fear, and of course the omniscient gods and goddesses, there is something for everyone in Mythology. Are you ready for this epic expedition? This course is designed to enhance your understanding of mythology and its continuing influence on our modern world. Students will study mythology from various cultures, including Greco-Roman, Norse, Egyptian, and Hindu Pantheons.

Philosophy I 2516 (0.5 credit)

The Philosophy course is designed as an introduction to the philosophical reflection and examination of some of the central questions of human existence from the Western perspective. Throughout the course students will consider: 1 - Epistemological questions concerning the possibility and nature of knowledge and truth; 2 - Metaphysical questions concerning the nature of ultimate reality, the mind-body problem, consciousness, free will and determinism, personal identify, the existence of God, and death; 3 - Ethical questions concerning morality and the good life. Philosophy is largely discussion-based and will place emphasis on the careful reading of primary sources, critical and systematic thinking, and the verbal and written expression of ideas.

Philosophy II 2526 (0.5 credit)

PREREQUISITE: Philosophy I
Advanced Philosophy is a continuation of the philosophical reflection and examination of some of the central questions of human existence introduced in Philosophy. The overarching goal is to continue to introduce philosophers, arguments, concepts, schools of thought, etc. that students can analyze with the assistance and guidance of an instructor. Contrary to the introductory course, Advanced Philosophy will involve the study of philosophers, representative texts and arguments, and concepts from AROUND THE WORLD. Advanced Philosophy is largely discussion-based and will place an emphasis on the careful reading of texts, critical and systematic thinking, and the verbal and written expression of ideas.

Sociology 2512 (0.5 credit)

Sociology is the study of human society and group behavior. This course is designed to familiarize students with various cultural frameworks and the problems resulting from the fact that humans are social primates. Topics covered include cultures, subcultures, socialization, social institutions, collective behavior, social change, social deviation, gender, and population. Hopefully, students will gain a much better understanding of themselves and their place in the social world.

Cultural Anthropology 2517 (0.5 credit)

Cultural anthropologists have estimated that there are more than 5,000 different cultures in the world today that speak mutually unintelligible languages. With such enormous linguistic and cultural variability in the world, it is impossible to become conversant with the details of all of these different cultures. Thus, by necessity, the study of cultural anthropology at the introductory level needs to take a more conceptual approach. During this course students will use their prior knowledge, personal experiences, firsthand observations, exposure to unique cultures via teacher guidance, and writings made by anthropologists to wrestle with the following question: What do human societies and cultures have in common, how do they differ, and why? Units of study include anthropology and the concept of culture, language, and communication, gender roles, kinship, marriage, religion, magic and rites of passage, and social stratification. Cultures presented in detail include the Kaluli of Papua New Guinea, the Changpa of northern India and Tibet, and the Azande of South Sudan.

Newsroom 2530

The Newsroom is a survey course elective of media studies and journalism. Students in this course will critically examine the first amendment and the role of a free press in a well-functioning democracy and the class will examine landmark supreme court cases involving freedom of the press. The Newsroom will instruct students in identifying and critically evaluating bias across media sources. Students will generate articles for possible publication in the school newspaper and help generate reports for the morning announcements.

AP Psychology 2740

REQUIRES AP CONTRACT AND COMPLETION OF SUMMER WORK AP Psychology is a full-year, college-level class designed for the highly motivated student. Psychological data, phenomena, and theories will be closely examined along with all of the major subfields within psychology. The objectives and topics will be: psychological history and approaches, research methods, biological bases of behavior, sensation and perception, state of consciousness, learning, cognition, motivation, emotion, developmental psychology, personality, testing and individual differences, abnormal behavior, treatment and social psychology. The purpose of the AP course is to prepare students for the AP exam in May. The cost for the AP exam is approximately $96.

Technology

Creativity & Innovation 6727 (0.5 credit)

Creativity and Innovations is a one semester high school technology education course. The course uses a hands-on approach to solving real-world problems. Everything from sanding wood to 3-d printing will be covered. Anyone interested in working with their hands and building objects will benefit from this course. If you are interested in engineering this course is a must. You will learn the basics of 3-d modeling using Solid Works, a high-end software.

CADD 6720 (0.5 credit math, science, or technology)

Computer aided design and drafting is a high school course designed to introduce CAD through the use of CADKEY & Solid Works. The course will focus on engineering drawings as well as new computer modeling techniques. Students will learn how to use computers to do drafting, instead of traditional methods. Topics to be covered include basic solid pictorial drawings, modeling, 2D and 3D modeling, dimensioning, assembly drawings and Pattern files. This course is an absolute must for any student thinking about a degree in the engineering field.