



2011-2012 JUNIOR HIGH OFFERINGS FOR HIGH SCHOOL CREDIT

302 - ALGEBRA I

Full year • 1 credit • Elective • Grades 9, 10, 11, 12 • Strongly recommend: no lower than a C in 8th grade Integrated Math or Fundamental Math Concepts.

The purpose of Algebra I is to introduce the students to the field of advanced mathematics and help them to determine their interests and potential in this discipline. Items presented include: set relations; functions; real number properties; solving and graphing linear equations and inequalities; systems of linear equations and inequalities; properties of exponents; quadratic equations; operations with polynomials; factoring; rational and radical expressions and equations; and algebraic connections to geometry. CALCULATOR — see Calculator Information at beginning of section.

304H - HONORS ALGEBRA

Full Year • 1 credit • Elective • Grade 9 • Prerequisite: A- or better is needed in 8th grade pre-Algebra.

See description of Algebra I for basic outline of course. Honors Algebra I covers all objectives of regular Algebra I with the addition of a few selected topics. Students in Honors Algebra I will be expected to maintain a quicker pace, investigate various topics in greater depth, and accept the challenge to solve problems of greater difficulty than their Algebra I counterparts.

Entry into Honors Algebra I will be done on a selective basis. Students who do not qualify will automatically be placed in Algebra I.

310H - HONORS GEOMETRY

Full Year • 1 credit • Elective • Grades 9, 10 • Prerequisite: B or better is needed in Honors Algebra I or A- or better in Algebra I.

See description of Geometry for basic outline of course. Honors Geometry covers all objectives of regular Geometry with the addition of a few selected topics. Students in Honors Geometry will be expected to maintain a quicker pace, investigate various topics in greater depth, and accept the challenge to solve problems of greater difficulty than their Geometry counterparts.

Entry into Honors Geometry will be done on a selective basis. Students who do not qualify will automatically be placed in Geometry. CALCULATOR — see Calculator Information at beginning of section.

231 - INTEGRATED SCIENCE

Full Year • 1 credit • 1 period a day • Fee • Prerequisite for other high school science courses.

Integrated Science is an inquiry-based laboratory course that introduces students to key concepts and theories that provide a foundation for advanced study in the physical sciences such as chemistry, physics, earth and space science. The course comprises the study of the physical world including developing models about classifying matter and how it changes, the particle nature of matter and atomic structure, types of chemical bonding and reactions and the conservation of matter. Energy interactions and the study of forces and motion will be emphasized. Students will also develop an understanding of the periodic table for use in explaining the chemical and physical changes developed in the course. In addition students will be introduced to scientific theories about the origin, development and structure of the universe and the types of nuclear reactions such as those that occur within stars. Integrated Science is a high school introductory level course which, fulfills the Ohio Core requirements for one year of physical science necessary for graduation.

670 - SPANISH I

Full Year • 1 credit • Elective • Grades 9, 10, 11, 12

This course is a study of the language and culture of Spanish-speaking people. Listening and speaking skills are stressed, along with a strong foundation in conversational vocabulary. Grammar is taught through conversational situations and writing practice.

640 - FRENCH I

Full Year • 1 credit • Elective • Grades 9, 10, 11, 12

The study of French begins with strategies for learning a second language. Subsequent chapters introduce basic grammar and vocabulary and various French-speaking communities. French speaking attitudes and practices concerning vacations, school, family, relationships, and sports and leisure time activities are presented through characters involved in real-life, everyday activities. Proficiency in listening, speaking, reading and writing is developed through interaction with a variety of media such as video, CD's, music, games and the Internet.

650 - GERMAN I

Full Year • 1 credit • Elective • Grades 9, 10, 11, 12

This course is a study of the language and culture of German-speaking people. Emphasis is placed on the development of listening and speaking skills. Vocabulary and grammar are taught through conversational situations, language games and videos.

800 - INTRODUCTION TO COMMUNICATION, GRAPHIC ARTS & PHOTOGRAPHY***

Grades 9, 10, 11, 12 • Semester • 1/2 credit • 1 period per day • Elective • Fee • Prerequisite: None • PHSC Only

Graphic Arts is designed to improve personal communication skills and to introduce students to the ever-changing world of digital communications and graphics. Students will participate in a variety of projects focused on using the computer as a production tool. Topics that may be covered include vinyl signs, batik, other enrichment activities, multimedia presentations using Microsoft PowerPoint, iMovie, a digital camera and a scanner; learn to communicate information visually by creating graphs and charts in Microsoft Excel; screen printing processes; and author their own web pages. Students will also develop an understanding of basic camera operation and photo composition by taking photographs, developing their negatives, and developing prints in our darkroom/photography complex. Students do not need to provide a camera for this course. This is the foundation course for the photography series.

824 - INTRODUCTION TO ENGINEERING TECHNOLOGY

Grades 9, 10, 11 • Semester • 1/2 credit • 1 period per day • Elective • Fee • Prerequisite: None

Introduction to Engineering Technology is a one semester course that will expose students to many different areas of technology. Topics that may be included/incorporated are: power and energy - physics, simple machines, fluid power systems, robotics and mechanical devices; manufacturing materials and processes - simple project construction using manufacturing processes in the areas of woodworking, metal work, plastics, and computer controlled machines; engineering - civil, electrical, industrial, and mechanical concepts are applied in the lab through problem solving activities.

560 - THEATRE I

Semester • 1/2 credit • Grades 9, 10, 11, 12

If you've ever fallen under the magical spell of a theatrical production, you will enjoy the activities of this class. You'll get a taste of various aspects of theatre, including acting, improvisations, makeup, stage combat, and theatre history. We will include work on pantomimes, monologues, dialogues, and short scenes.

901 - LIFETIME FITNESS

Semester • .25 credit • Grades 9,10,11,12

The purpose of "Lifetime Fitness" is a course designed for those students that wish to develop a personal fitness program. Lifetime Fitness will help the student develop individual strategies for a lifetime of healthy living. Students will evaluate their present fitness level and then develop a plan on how to improve their personal fitness. Body movement, cardiovascular conditioning and strength conditioning will be emphasized. The class will also discuss nutrition and the role it plays in maintaining a healthy lifestyle. Video workouts used in class may include Pilates, Yoga, and Tae-Bo to reinforce the importance of flexibility and muscular strength.

905 - TEAM SPORTS

Semester • .25 credit • Grades 9,10,11,12

This class is designed for those students who wish to participate in team sports. The team sports will focus on game rules and strategies associated with a variety of sports. The emphasis of this class will be on teamwork, sportsmanship, and improve the basic skill level required by the various team activities. Some of the team activities the students may participate in may include but will not be limited to the following activities: Flag Football, Soccer, Volleyball, Basketball, and Track and Field, Softball, Eclipse Ball and Speedball.

850 - FOUNDATIONS IN TWO DIMENSIONAL DESIGN

Semester • 1/2 credit • Students are encouraged to take this course as a freshman or recommended freshmen year for those interested in taking advanced classes • Grades 9, 10, 11, 12 • Elective • Fee • Prerequisite: None.

Foundations in Two Dimensional Design is a course for beginning students who are interested in drawing, painting, and printmaking. Students will learn skills in the fore mentioned areas along with such items as color theory, design elements, and art history. Students who plan on having a career in art should plan on taking this course their freshman year. Sketchbooks will be required.

852 - FOUNDATIONS IN THREE DIMENSIONAL DESIGN

Semester - 1/2 credit • Students are encouraged to take this course as a freshman or recommended freshmen year for those interested in taking advanced classes • Grades 9, 10, 11, 12 • Elective • Fee • Prerequisite: None.

Foundations in Three Dimensional Design is a course for beginning students interested in ceramics, sculpture, and metal working. Students will learn to work with clay, plaster, metal, and various other materials. Students will also learn 3-D design elements, color theory, and art history. Students who plan on having a career in art should plan on taking this course their freshman year. Sketchbooks will be required.