

ART

1010 Art Activities & Appreciation (Grade 7)

A beginning class in which all projects are based on the elements of art. The students will experience a variety of materials as well as study different artists and their style. Art appreciation and history are correlated with studio art, which emphasizes the elements of art (line, shape, color, value, texture, form, and space) and the principles of design (balance, movement, rhythm, contrast, emphasis, pattern, unity). This is a quarter long course.

1020 Art 1 (Grades 8/9)

This course offers further development of the elements of art and the principles of design. A wide variety of art activities are designed to increase the student's knowledge of art media, techniques, terminology, and appreciation of aesthetics and art styles. Critical thinking skills are emphasized as students do drawings, paintings, sculpture, printmaking, ceramics, fiber projects and computer graphics. Pre-requisite: C or better in Art Activities & Appreciation.

Meets requirement number: 1, 11 for 9th grade students.

1030 Art 2 (Grades 8/9)

This course allows students to further develop their creative ideas and interests with more involved projects. A greater emphasis is placed on art aesthetics and critical evaluation. Art elements and principles of design continue to be reinforced as students are introduced to new art concepts, art history, media, and techniques. Pre-requisite: C or better in Art 1.

Meets requirement number: 1, 11 for 9th grade students.

1040 Art 3 (Grades 8/9)

This course is designed primarily as a program for students who wish to further their creative development in the fine arts. Students are encouraged to concentrate in areas of special interest to them on major projects. New techniques and media are introduced. Some of these might be advanced water color techniques, acrylic painting, mixed media drawings, embossing, multicolor silk screen printing, soft sculpture, casting techniques, batik, fiber arts, airbrush, paper making, and computer graphics. Students must have instructor approval. Pre-requisite: C or better in Art 2.

Meets requirement number: 1, 11 for 9th grade students.

1045 Pottery and Sculpture (Grades 8/9)

Pottery and Sculpture is a one-semester class directed toward introducing students to three-dimensional methods of creating art. The class begins by studying the element and principles of design and how they are applied to 3-D works of art.

Meets requirement number: 1, 11 for 9th grade students.

1050 Crafts (Grades 8/9)

This course offers the student opportunities to design and create functional hand-crafted products which may include clay, wood, leather, plastics, beading, fibers, metal and printmaking. The history and culture of crafts is studied. **If this course is taken during the 8th grade it may not be repeated during the 9th grade.** Students may be required to pay project costs.

Meets requirement number: 1 for 9th grade students.

1070 Photography (Grades 8/9)

This exciting course includes instruction in basic and fundamental 35 mm camera use and digital photography. Each student participates in darkroom techniques such as black and white film developing, picture printing, and picture enlarging. The history of photography is introduced, the science of photographic chemicals is studied, and visual perception is stressed by looking with discrimination through the lens of a camera. **If this course is taken during the 8th grade it may not be repeated during the 9th grade.** Students will be asked to buy film.

Meets requirement number: 1, 11 for 9th grade students.

COMPUTER EDUCATION

1600 Computer 1 (Grade 7)

This quarter long course where students will use computers and technology to increase proficiency of basic computer and keyboarding skills. Students will create and present multi-media projects using graphics, sound and animation; compose and send formatted letters; prepare a formatted autobiographical report; navigate the internet to investigate topics; construct graphs/charts from spreadsheets; paint and draw computer generated art; and import graphics from electronic sources.

1750 Computer Applications I (Grades 8/9)

Students will use Microsoft Office programs (Word, Excel, PowerPoint) to prepare and present a variety of documents. Students will create and present dynamic multi-media projects using graphics, sound and animation. They will conduct research using the Internet and/or electronic resources, correspond electronically with others, prepare graphics/charts from spreadsheets, produce and merge documents with other applications, generate and manipulate graphics, create basic web pages and increase proficiency of basic computer and keyboarding skills. Students will be expected to explain and model appropriate technology ethics. Software includes Microsoft Office Suite.

Meets requirement numbers: 1 for 9th grade students.

1766 Web Design (Grades 8/9)

Students in this course will use computers and technology to gain proficiency in graphics and web design. Projects will include web pages for personal and educational use, compiled into an online portfolio. Additional topics will include html coding, graphics and design and manipulation, electronic correspondence, Internet literacy and multi-media authoring. Students will be expected to explain and model appropriate technology ethics. Software includes: Macromedia Design Suite (Dreamweaver, Fireworks and Flash).

Meets requirement number: 1 for 9th grade students.

TECHNOLOGY EDUCATION

2100 Introduction to Technology – (Grade 7)

This quarter length course introduces students to the skills required in the Engineering and Design world. Students will work on projects based on electrical, structural, mechanical, aerospace, and other engineering fields. Emphasis will be on learning the proper design techniques and communicating ideas to others. Students will also start to learn how to properly use machinery to build prototypes of various designs. This course is designed for students interested in hands-on explorations using Math, Science, Technology, and Manufacturing skills.

2110 Exploring Technology – (Grades 8/9 - No pre-req.)

This course will provide students with the necessary skills to design, test, analyze, and improve various small projects. The projects are based in electrical, structural, mechanical, aerospace, and other engineering fields. Students will be introduced to the engineering design process and be taught skills related to multiple industries. Design software and prototype modeling will be emphasized. In addition, students will work on team skills and communication methods. This course is designed for students interested in hands-on explorations using Math, Science, Technology, and Manufacturing skills.

Meets requirement number: 1 for 9th grade students.

2120 Applications in Technology – (Grades 8/9 - Engineering Exp 2 is pre-req. for this course)

This course will continue to develop the design, test, analysis, team, and communication skills started in Engineering Explorations 2. Students will be in with Engineering Explorations 2 classes and will be trained to be Lead Engineers. Project management and team leadership skills will be emphasized. In addition, students will be developing more complex prototypes and inventions in engineering fields of their interest. The culminating project will be a work chosen by the student to further their engineering knowledge. This course is designed for students interested in hands-on explorations using Math, Science, Technology, and Manufacturing skills.

Meets requirement number: 1 for 9th grade students.

MUSIC

2510 Music Explorations (Grade 7)

Offers exploration of different musical styles and development of skills that are basic to musical understanding and appreciation and instruction in vocal techniques. Choir class develops performance skills while enhancing musical understanding and appreciation. This is a quarter long class.

2520 Seventh Grade Choir (Grade 7)

A class designed to give students with an interest in singing the opportunity to perform vocally and become more comfortable and confident with their changing voices. This class would give seventh grade students the preparation, knowledge, and skills that build confidence in adolescent singers and prepare them for the advanced choirs in eighth and ninth grade. **This class is offered as a full year or semester long class.**

2570 Junior High Beginning Band (Grade 7)

Beginning band is designed for teaching basic skills to beginning wind, brass and percussion players. Tone, technical facility, music terminology, and music reading are stressed. Literature appropriate to beginner skill level is presented. Enrollment is based upon completion of the summer band program or by approval of the instructor. If a student is not able to attend the summer band program and wishes to play in the beginning band, he/she should contact the instructor at the junior high school they will attend. **This is a full year course.**

2580 Junior High Beginning Orchestra (Grade 7)

This course is designed for the beginning string student. Basic techniques of bowing, fingering, and correct manipulation of the instrument are studied. Literature appropriate to beginner's skill level is presented. Enrollment is based upon completion of the summer instrumental program or by approval of the instructor. If a student is not able to attend the summer instrumental program and wishes to play in the beginning orchestra, he/she should contact the instructor at the junior high school they will attend. **This is a full year course.**

2530 Select Choir (Grades 8/9)

Participation in select choir requires high-level performance skills. The choir performs a variety of significant choral literature representing several stylistic periods. This is a gifted and talented group that performs concerts in the school and community. This course is a year in length.

Meets requirement numbers: 1, 11 for 9th grade students.

2550 Women's Choir (Grades 8/9)

This group is open to soprano and alto voices and performs music of intermediate difficulty, which prepares students for further advanced study in music. This group may perform at school and in the community. Performances are required. This course is one semester in length.

Meets requirement numbers: 1, 11 for 9th grade students.

2590 Junior High Concert Band (Grades 8/9)

Enrollment in this class is by instructor approval or upon successful completion of beginning band. Concert band emphasizes fundamentals such as scales, chords, and tone production. Design of the class provides opportunities for 7th and 9th graders, even though it is primarily for 8th graders. A large quantity of band literature of varying styles and difficulty is studied. Performances are required.

Meets requirement numbers: 1, 11 for 9th grade students.

2600 Junior High Concert Orchestra (Grades 8/9)

This is a class designed for 8th graders, but does provide a stronger musical experience for the advanced 7th grade student. It also provides an opportunity for the ninth grader to develop who may not have the necessary skills for the symphony orchestra. Students in this group will have the opportunity to advance at semester. Enrollment is by instructor approval or upon successful completion of concert band. Literature studies are of intermediate difficulty. Performances are required.

Meets requirement numbers: 1, 11 for 9th grade students

2610 Junior High Symphonic Band (Grades 8/9)

Enrollment is by instructor approval or upon successful completion of concert band. The class involves a continuation of music fundamentals taught at the beginning and intermediate levels. Principal players of most sections may be asked to participate in symphony orchestra twice a week. Advanced playing techniques are developed through rehearsal and performances. Participation in Symphonic Band is a prerequisite for high school band. Performances are required.

Meets requirement numbers: 1, 11 for 9th grade students.

2620 Junior High Symphonic Orchestra (Grades 8/9)

This course is designed for the advanced string player. Participation in this group requires a high level of commitment by the student to learn advanced techniques in bowing, fingering and tone production. Advanced technique is pursued through the study of a variety of music ranging from the early baroque style through contemporary and popular styles. Students entering the 9th grade will benefit from this group as it will prepare them for the high school orchestra. Younger students (8th grade) who have taken private lessons on their instrument for 2 years or more can also participate in this group with instructor approval. The group performs as a string ensemble and as a symphonic orchestra by combining woodwinds, brass and percussion from the Symphonic Band. Performances are required. Students must have instructor approval.

Meets requirement numbers: 1, 11 for 9th grade students

5237 Musical Theatre Production (Grades 8/9)

This year long class is an interdisciplinary course designed to develop skills in various aspects of producing a major musical. It is open to students with a variety of interests including singing, acting, dancing, instrumental music, technical theater, and marketing. Auditions, portfolios and/or resumes may be required. Instructor approval required.

Meets requirement numbers: 1, 11 for 9th grade students

PHYSICAL EDUCATION

3094 Dance (Grade 7)

This course will develop and extend the artistic, affective, cognitive and psychomotor potential of all levels of dancers. The students will be provided with opportunities to explore, choreograph, organize, evaluate and perform a variety of dance forms.

3505 Physical Education (Grade 7)

This is an activity course designed around developing physical fitness and wellness, desirable social traits, knowledge of a variety of activities and developing motor skill. Depending upon which semester (fall/spring) a student is scheduled, the variety of core activities includes soccer, volleyball, flag football, basketball, softball, tumbling, racquet skills, aerobics, fitness testing, track and field and rhythms. This does not preclude that a school site would teach, as deemed appropriate, supplementary activities that fit the weather conditions, class make-up and facilities.

This is a required semester-length course.

3580 Health (Grade 7)

This is a semester-length class for seventh graders. The basic topics covered in the course include an overview of the human body, disease, personal wellness, family and peer relationships, drug use and abuse, and growth and development of the adolescent.

This is a required semester-length course.

3525 Physical Education (Grade 8)

This course offered in both 1st and 2nd semester changes according to appropriateness of activities in fall (1st semester) and spring (2nd semester). Physical activities are similar to seventh grade, but motor skills are further refined and new lead-up activities offered as it fits the eighth-grade student. Scoliosis screening occurs during the year, accomplished by PSD nursing and physical education staff. **This is a required class, one semester in length.**

3545 Physical Education (Grade 9)

The students will experience a variety of sport, including team and individual, and game skills. Motor skills and activities are further refined and progressions extended. This course is designed to incorporate lifetime activities, and offers an assortment of different activities. Wellness concepts are stressed, along with the importance of cardiovascular fitness, to prepare for a lifetime of self-directed activity.

Meets requirement numbers: 1, 18 for 9th grade students.

WORLD LANGUAGES

4510 World Language Exploration (Grade 7)

World Language Explorations is an a semester length elective class designed to introduce students to the alphabet, numbers, pronunciation, basic phrases, greetings, and culture of the French, German and Spanish languages. Other theme units with accompanying vocabulary may be included.

4710 French Level 1(Grades 8/9)

Students are introduced to vocabulary and structures. Activities include dialogs, novice readings, listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community!

Meets requirement numbers: 1, 11 for 9th grade students.

4720 German Level 1 (Grades 8/9)

Students are introduced to vocabulary and structures. Activities include dialogs, novice readings, listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community!

Meets requirement numbers: 1, 11 for 9th grade students.

4730 Spanish Level 1 (Grades 8/9)

Students are introduced to vocabulary and structures. Activities include dialogs, novice readings, listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community!

Meets requirement numbers: 1, 11 for 9th grade students.

4750 French Level 2 (Grades 8/9)

Students increase vocabulary and structures. Activities include dialogs, novice readings, listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community! Prerequisite:

Passing grade in Level 1.

Meets requirement numbers: 1, 11 for 9th grade students.

4760 German Level 2 (Grades 8/9)

Students *increase* vocabulary and structures. Activities include dialogs, novice readings, listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community! Prerequisite:

Passing grade in Level 1.

Meets requirement numbers: 1, 11 for 9th grade students.

4770 Spanish Level 2 (Grades 8/9)

Students *increase* vocabulary and structures. Activities include dialogs, novice readings, listening selections, and written communication. Students experience language through the study of cultures, while making connections and comparisons to their native language and developing communication skills in the target language. The study of a world language prepares students to compete in a global community! Prerequisite: Passing grade in Level 1.

Meets requirement numbers: 1, 11 for 9th grade students.

LANGUAGE ARTS

5010 English 7 (Grade Level)

The seventh-grade English program is designed to help students express themselves more easily and effectively through writing and speaking. The course includes study of the fundamentals of grammar, correct usage, literature (short stories and the novel), and the process of writing (narration, description, and exposition). Students focus on writing a unified, coherent paragraph, which logically supports a topic sentence by using specific details. Students also have opportunities to write creatively. This is a full year course.

5018 Pre AP English 7 (Grade Level Accelerated)

Pre-AP English 7 is based upon the same curriculum and standards as English 7, but is designed to emphasize the skills and habits of a mind that will be needed to take Advanced Placement English courses and the Advanced Placement exam. Students will be challenged to do more with literary comparison, composition, and the higher order thinking skills of analysis, synthesis and evaluation. Seventh grade English course content is covered in greater depth and with more insight. This is a full year course. **Placement in this class is determined by test scores, teacher recommendation and/or administrative recommendation.**

5020 English (Grade 8)

The eighth-grade English course is devoted to developing communication and thinking skills through the integrated study of language, literature, and writing. Language study emphasizes sentence patterns, punctuation, spelling, vocabulary, and usage. The study of the writing process includes further development of skills and working with multi-paragraph writings in narrative, descriptive, and expository writing. The study of literature includes the genre or thematic approach, stressing an understanding of literary terminology and author's purpose.

5021 & 7021 Humanities (Grade 8)

The Humanities course is designed to integrate the study of American History with the study of literature, music, art, and language. The course will provide students with experiences that illustrate the relevancy of history to everyday life and will study literature that recorded the past and shaped the future. Students will work individually, on teams, and as a class thematically investigating such issues as cultural diversity, the ideals and beliefs, and the power struggles and conflicts that shaped our history and are illustrated in the literature. Language study will include developing multi-paragraph writing, punctuation, vocabulary, and usage. This class is taught concurrently with Humanities social studies.

5023 English Pre-AP (Grade 8)

Pre-AP English 8 is based upon the same curriculum and standards as English 8, but is designed to emphasize the skills and habits of mind that will be needed to take Advanced Placement English courses and the Advanced Placement exam. Students will be challenged to do more with literary comparison, composition, and the higher order thinking skills of analysis, synthesis and evaluation. Eighth grade English course content is covered in greater depth and with more insight.

Application process must be followed.

5030 English (Grade 9)

English 9 standards call for the student to communicate effectively in writing and speaking; to read, analyze, and interpret literature; and to use appropriate resources and skills to conduct research. Students build writing skills in many forms and are expected to meet the district writing standard in three specific areas: an expository essay, a formal letter, and a creative work. Criteria for evaluation includes: focus development, organization, mechanics (spelling, punctuation, capitalization), and style (sentence structure and vocabulary). Literature study, which focuses on the concept of theme within various literary genres, includes short stories, novels, and plays. Most students will read *Romeo and Juliet* and *To Kill a Mockingbird*.

Meets requirement numbers: 1, 3 for 9th grade students.

5034 English Pre-AP (Grade 9)

Pre-AP English 9 is based upon the same curriculum and standards as English 9, but is designed to emphasize the skills and habits of mind that will be needed to take Advanced Placement English courses and the Advanced Placement exam. Students will be challenged to do more with literary comparison, composition, and the higher order thinking skills of analysis, synthesis and evaluation. Ninth grade English course content is covered in greater depth and with more insight.

Application process must be followed.

Meets requirement numbers: 1, 3 for 9th grade students.

5060 Creative Writing (Grades 8/9)

Creative Writing is a semester elective designed to help students improve their ability to express themselves through imaginative use of the language. Students focus on improving their sense of observation in narrative and descriptive writing, by creating their original short stories and poems and by examining the works of professional writers. Prior mastery of basic English skills is necessary.

Meets requirement number: 1 for 9th grade students.

5070 Drama (Grades 8/9)

This one-semester course for eighth and ninth graders is designed to introduce and/or improve basic acting skills. Techniques to develop and practice creative imagination and self-discipline will be employed through such classroom activities as character creation and interpretation, improvisation, pantomime, and oral interpretation. Students have the opportunity to produce presentations for others.

Meets requirement numbers: 1, 11 for 9th grade students.

5072 Introduction to Drama (Grade 7)

This quarter long course provides an introductory experience to creative dramatics.

5080 Reading Workshop/Study Hall (Grade 7)

This quarter long class is designed to encourage the reading of short stories and novels. Students explore literature through the different levels of comprehension. A portion of the class time will be devoted to study hall allowing students to work on content area homework.

5081 Reader's Workshop/Study Hall (Grades 8/9)

This elective class is designed for those students who would like more time to read books of their own choosing. A minimum number of books are required for each student and follow-up activities are expected including an annotated bibliography. A portion of the class time will be devoted to study hall allowing students to work on content area homework.

Meets requirement number: 1 for 9th grade students.

5110 Journalism & Newspaper (Grades 8/9)

This semester elective is designed to introduce students to the basic skills involved in the publication of a newspaper. Topics include journalistic style, editing, interviewing, layout and design, and the responsibility of the press. Emphasis is placed on news writing and on meeting deadlines.

Meets requirement number: 1 for 9th grade students.

5130 Yearbook (Grades 8/9)

In this year long course, Yearbook covers all phases of yearbook production. Students learn to design layouts, write copy, organize materials, take, select and crop photographs. Students must meet deadlines, market yearbooks and monitor the budget as part of a cooperative publication staff.

Application process must be followed in the Spring prior to requesting this course.

Meets requirement number: 1 for 9th grade students.

5150 Explorations in Great Books (Grade 7)

This quarter length is an introductory course for students wishing to challenge themselves in the area of literature. The course is designed to develop each student's reading, speaking, critical thinking, and writing skills using upper-level literature. This class will guide students in analyzing literature through reading, writing, and discussion. **There is a fee for disposable materials in this class.**

5250 Basic Speech (Grade 9)

Basic Speech is designed as a fundamental course to improve public speaking in formal and informal settings. Focus is on activities, which address the organization, preparation, and delivery of solo speaking opportunities including informative, visual aid, demonstration, and persuasive speeches. Work also includes effective listening, oral interpretation and group discussion.

Meets requirement numbers: 1, 2 for 9th grade students.

9918 Study Skills/Note Taking/Library Skills (Grade 7)

This course will give students tools to reach their academic goals for the school year. It will include: becoming acquainted with the reference tools of the library; methods of good note taking; and successful study habits to prepare effectively for tests as well as techniques to enhance your memory and concentration. This is a quarter long course.

MATHEMATICS

6140 Topics in Mathematics (Grade 7)

This quarter long course covers mathematical areas not presented in normal sequential math classes. Some areas covered may include but are not limited to the use of computers, hand calculator, stock market, constructing polyhedra, number patterns, tessellation's, probability, computer programming, Math Counts Training, and curve stitching.

6364 Connected Math 2 (Grade Level)

Connected Math 2 consists of problem-centered units that develop a “big idea,” that is, an important cluster of related concepts, skills, procedures, and ways of thinking. Suggested units for this course: Variables and Patterns, (Introducing Algebra); Stretching and Shrinking, Similarity, (Similarity); Comparing and Scaling, (Ratio, Proportion, and Percent); Accentuate the Negative, (Integers); Moving Straight Ahead, (Linear Relationships); Filing and Wrapping, (Three Dimensional Measurement). This is a full year course.

6365 Connected Math 2 Accelerated (Grade Level Accelerated)

Connected Math 2 Accelerated consists of problem-centered units that develop a “big idea,” that is, an important cluster of related concepts, skills, procedures, and ways of thinking. Pacing of course is accelerated, with the expectation of completing seven units. Suggested units for this course: Variables and Patterns, (Introducing Algebra); Stretching and Shrinking, Similarity, (Similarity); Comparing and Scaling, (Ratio, Proportion, and Percent); Accentuate the Negative, (Integers); Moving Straight Ahead, (Linear Relationships); Filing and Wrapping, (Three Dimensional Measurement); What Do You Expect, (Probability and Expected Value). This is a full year course. **Placement in this class is determined by test scores, teacher recommendation and or administrative recommendation.**

6366 Connected Math 3 (Grade Level)

Connected Math 3 consists of problem-centered units that develop a “big idea,” that is, an important cluster of related concepts, skills, procedures, and ways of thinking. Suggested units for this course: Thinking with Mathematical Models, (Representing Relationships); Growing, Growing, Growing, (Exponential relationships); Samples and Populations, (Data and Statistics); Frogs, Fleas, and Painted Cubes, (Quadratic Relationships); Looking for Pythagoras, (The Pythagorean Theorem); Say It with Symbols, (Algebraic Reasoning). This is a full year course.

6367 Connected Math 3 Accelerated (Grade Level Accelerated)

Connected Math 3 Accelerated consists of problem-centered units that develop a “big idea,” that is, an important cluster of related concepts, skills, procedures, and ways of thinking. Pacing of course is accelerated, with the expectation of completing seven units. Suggested units for this course: Thinking with Mathematical Models, (Representing Relationships); Growing, Growing, Growing, (Exponential relationships); Samples and Populations, (Data and Statistics); Frogs, Fleas, and Painted Cubes, (Quadratic Relationships); Looking for Pythagoras, (The Pythagorean Theorem); Say It with Symbols, (Algebraic Reasoning); Kaleidoscopes, Hubicaps and Mirrors, (Symmetry and Transformations). This is a full year course.

6351 Integrated Level 1 (Grades 8/9)

Integrated Level 1 (previously Integrated Algebra I) interweaves mathematical topics of algebra, geometry, statistics, probability, trigonometry, discrete mathematics. Level 1 includes expressions, linear equations and graphs, inequalities, systems of linear equations, and quadratic equations and graphs. Topics from geometry that are introduced include coordinate geometry, transformations, similarity, area, solid geometry, and trigonometric ratios. Students use inductive reasoning to investigate patterns and create mathematical models for real-world situations. Students also study experimental, theoretical, and geometric probability, and statistical measures and graphs.

Meets requirement numbers: 1, 13 for 9th grade students.

6352 Integrated Level II (Grades 8/9)

Integrated Level II (previously Integrated Geometry) is the second year course in the integrated mathematics sequence. The spiraling of algebra, geometry, trigonometry, probability, statistics, discrete mathematics and functions continues. Level 2 has a strong geometry/logical reasoning strand that includes such topics as inductive and deductive reasoning, coordinate geometry in two and three-dimensions, implications, arguments, and postulates in algebra. Students write two-column, paragraph, and flow proofs about similar and congruent triangles. New algebra topics include inverse variation, complex numbers, the binomial theorem, and rational and cubic equations. Matrices are introduced and used to represent transformations and systems of equations. Other topics include special right triangles, counting techniques, probability and odds, Pascal's triangles, and binomial experiments.

Prerequisite: Successful completion of Integrated Level 1.

Meets requirement numbers: 1, 13 for 9th grade students.

6353 Integrated Level III (Grades 8/9)

Integrated Level III (previously Integrated Algebra II) is the third year course in the integrated mathematics sequence. Spiraling of the mathematical topics of algebra, geometry, trigonometry, probability, statistics, discrete mathematics, and functions continues. Emphasis in this third year is on functions including radical, piecewise, exponential, logarithmic, inverse, and trigonometric functions. Students also study sequences and series. The emphasis of the geometry strand is circles. Also studied are indirect proof, polar coordinates, vectors, and parametric equations. The probability and statistics topics include standard deviation, normal distributions, linear and quadratic regression, conditional probability, expected value, and transition matrices. Topics from discrete mathematics include algorithms, finite graphs, and linear programming.

Prerequisite: Successful completion of Integrated Level II.

Meets requirement numbers: 1, 13 for 9th grade students.

SCIENCE

6510 Science 7

This course is designed for all students and is the first of two courses that meets the Colorado State and Poudre School District Content Standards for Science grades 5-8. The major topics covered in the 7th grade course are: Introduction to Chemistry, Heat and Temperature, Electricity, Classification, Cytology, Genetics, Body Systems, Oceanography, Weather and Sound and Light. The Science 7 is designed to fit the Hands on Science model: there are many labs and other activities that are integral parts of this course. This is a full year course.

6520 Science 8 (Grades 8/9)

This course is designed for all students and is the second of two courses that meets the Colorado State and Poudre School District Content Standards for Science grades 5-8. The major topics covered in the 8th grade course are: Chemical Properties of Matter, Motion and Energy, Geophysics and Geology, Chemistry, Chemical Cycles, Environmental Biology and Space Science. This is a required course for all 8th graders.

6710 Biology 1 (Grades 8/9)

This is an introductory course that is standards based. Embedded in this course are Colorado Science Standards 1, 3, 5 and 6. It is designed to help students understand their living world. The class uses extensive laboratories to supplement lecture/reading activities. The class is a prerequisite to more advanced courses in biology.

Meets requirement numbers: 1, 14 for 9th grade students.

6714 Honors Biology (Grades 8/9)

This is an introductory course that is standards based. Embedded in this course are Colorado Science Standards 1, 3, 5 and 6. The honors section of this course reflects rigorous content, materials and student expectations. Students must meet the criteria for acceptance into this section. Students will be expected to complete a research paper or project, which includes: primary sources, a synthesis of those sources, a demonstration of advanced planning by students and a formal presentation of the paper or project.

Application process must be followed.

Meets requirement numbers: 1, 14 for 9th grade students.

6720 ICPE (Grades 8/9)

This course is a standards based introductory physical science course. The three areas of study are Chemistry, Physics and Earth Science. It is recommended that this course be taken in grade 9 or 10. This course will not fulfill college entrance requirements for a full year of chemistry or a full year of physics.

Meets requirement numbers: 1, 15 for 9th grade students.

Prerequisite: Integrated Level I or concurrent with Integrated Level I

6735 Science Olympiad (Grade 7)

This is a quarter long elective class. The course is modeled after the nationally recognized Science Olympiad competition. This course will allow students to explore all areas of science. Sample topics may include: astronomy, crime solving, trajectory, egg drop and orienteering.

SOCIAL STUDIES

7010 World Geography & Cultures (Grade 7)

This course will teach students how to organize and analyze information about several world cultures. The course content emphasizes both physical geography skills and knowledge of the cultural components of each area studied. Specific cultures from the Middle East, Asia, Europe, Africa, and South America will be investigated. This is a full year course.

7020 8th Grade U.S. History

This course is an overview of United States History with a strong emphasis on civics, economics and civil rights. The 4 major focus areas include Exploration and settlement, Development of Constitutional America, The Expanding Nation - economic growth and development of the U.S. and U.S. come of Age in the 20th Century.

7021 & 5021 Humanities (Grade 8)

This course is an overview of United States History with a strong emphasis on civics, economics and civil rights. The 4 major focus areas include Exploration and settlement, Development of Constitutional America, The Expanding Nation - economic growth and development of the U.S. and U.S. come of Age in the 20th Century. This class is taught concurrently with Humanities English with an emphasis on the Arts and Literature.

7250 World History (Grade 9)

This course is a chronological survey of events and people that characterize each of the major eras in World History with a primary emphasis on Western Civilization. The eras studied include Emergence of Civilization, The Classical Civilizations, The Expansion and Interaction of Civilizations, The Early Modern World, The World in the 19th Century and The World in the Contemporary Era including World War II. This course is part 1 of the world studies requirement for graduation, part 2 is World Geography and Culture 7210.)
Meets requirement numbers: 1,7 for 9th grade students.

7281 Current Issues JH (Grades 8/9)

This semester long course helps students to understand current, local, state, national, and international issues and their historical background. This understanding will provide an opportunity to develop reasoned opinions. The student will develop an awareness of positions held by individuals and groups affected by issues.

Meets requirement number: 1 for 9th grade students.

MISCELLANEOUS

8110 - 8128 Student Aides (Grades 8/9)

Eighth and ninth grade students may earn 5 hours of credit serving as a Student Aide. Aides may be teacher aides, office aides, media aides, or P.E. aides. Students applying for aide positions are expected to maintain good academic standards, demonstrate good citizenship and the ability to handle the responsibility of the aide position. Students will be given an S/U grade.

Students interested in applying for an aide position must pick up an Aide application form from the teacher they wish to aide for. A parental signature is required on the application. Return the completed form directly to the teacher.

Note: students selected for Media Aide positions will be using one half of the period as a study hall.

Meets requirement number: 1 for 9th grade students.