

Centennial Options Secondary

22-23 Course Descriptions

Middle and High School Classes

CLASS RATING GUIDE	
1	Up to 1 hour of homework per week
2	2 to 3 hours of homework per week
3	4 to 5 hours of homework per week "Full Curriculum" = no supplementing needed except in English.

Class Title: Pre-Algebra			
Teacher:	Guise	Rating:	3
Text:	Saxon	Grade:	6-8
Prerequisite:	Completion of an elementary math curriculum and/or placement test		
Credit:	Full-Curriculum	Max:	16

Description: Students will study number operations and number systems as well as algebraic expressions. Fundamental algebraic properties will be studied. Students will set up and solve equations and inequalities. Various graphing methods will be explored to display and analyze data. Prior mastery of basics math (addition, subtraction, multiplication, division and fractions) is essential for success. The course is designed to provide instruction to fundamental number and algebra concepts while emphasizing how to support answers with steps. Students will complete weekly homework, tests, in class work and notes and keep an organized notebook, Parents will be expected to sign weekly or biweekly tests. Students will also complete a project each semester relating to learned content and it's application. **No supplements needed.**

Class Title: Algebra I			
Teacher:	Guise	Rating:	3
Text:	Saxon	Grade:	8-12
Prerequisite:	Pre-Algebra with a grade of C or better		
Credit:	1.0 (HS only)	Max:	16

Description: This class will be a 2-block class (2.5 hours). This full credit course in Math will cover most lessons of the textbook in the year. Topics will include absolute value, sets and their relationships, properties of polynomials, equations, fundamental operations, ratios, proportions, factoring, fractions, square roots, radicals, graphing methods and elements of probability. Students will complete weekly homework, tests, in class work and notes and keep an organized notebook. Parents will be expected to sign tests. Students will also complete a project each semester relating to learned content and its application. ***Note: Algebra 1 is a two-period course. Students are required to take both sections. No supplements needed.**

Class Title: Algebra 2			
Teacher:	Guise	Rating:	3
Text:	Saxon	Grade:	9-12
Prerequisite:	Algebra 1 and Geometry with a grade of C or better or placement test		
Credit:	1.0 (HS only)	Max:	16

Description: This class will be a 2 -block class (2.5 hours). This full credit course in Math will cover most lessons of the textbook in the year. Topics will include solving systems of equations, exploring functions, operations with polynomials and matrices, rational expressions, graphing, statistics, logarithms, probability, series and sequences, factoring and function modeling. Graphing calculator activities and analyses will be included also. Students will complete weekly homework, tests, in class work and notes and keep an organized notebook. Parents will be expected to sign tests. Students will also complete a project each semester relating to learned content and its application. ***Note: Algebra 2 is a two-period course. Students are required to take both sections. No supplements needed.**

Middle and High School Classes

Class Title:	Middle School Language Arts		
Teacher:	Pearman	Rating	3
Text:	Elements of Lit, Intro	Grade:	6-8
Prerequisite:	none		
Credit:	Full-Curriculum	Max:	16

Description: Students will explore a variety of fiction and nonfiction works, including short stories, plays, poetry, biography, and technical writing. In conjunction with the readings, students will also complete writing and speaking projects such as creating original fiction, writing personal narratives, presenting dramatic readings and using media to present researched information. Our textbook is different from the last two years. **Please supplement this course with grammar, spelling and vocabulary.**

Class Title:	American Literature		
Teacher:	Pearman	Rating	3
Text:	Elements of Literature, 5th	Grade:	9-12
Prerequisite:	none		
Credit:	1.0 (HS only)	Max:	16

Description This class will study selections from favorite classic and modern American authors. Students will compose literary analysis, essay, and research writing. Students will learn strategies and techniques for success in college, advanced training, and business. Recommendation: students should enroll in both American History and American Literature for an enriched learning experience. Our textbook is different from the last two years. **Please supplement this course with grammar, spelling and vocabulary.**

Class Title:	Board Game Design		
Teacher:	Pearman	Rating	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	0.5 (HS only)	Max:	16

Description: This class combines mathematics, art, writing skills and more in the beloved format of the board game. Students will play and analyze both popular and obscure board games. They will also create and playtest a game of their own each semester. Homework time will vary based on the complexity of the game a student chooses to design.

Class Title:	Creative Writing/Journaling		
Teacher:	Pearman	Rating	2
Text:	none	Grade:	9-12
Prerequisite:	none		
Credit:	0.5 (HS only)	Max:	16

Description: Journaling develops creativity and supports mental health. Students will explore, express, and organize their thinking in a variety of both fiction and nonfiction writing prompts, including helpful graphic organizers for developing life skills, and plot points for writing an original fairytale. This class is focused on short, simple writing prompts, with minimal homework.

Class Title:	High School U.S. History		
Teacher:	Retallack	Rating:	3
Text:	Various	Grade:	9-12
Prerequisite:	None		
Credit:	1.0 (HS only)	Max:	16

Description: This course will focus on the political, economic, social and cultural concepts of United States history. Students will review the Constitution, The Civil War, and Reconstruction. Then, students will study Industrialization, Westward Expansion, the Progressives, Imperialism, WWI, the 1920's & the Great Depression, WWII, the Cold War, the Civil Rights Movement, and terrorism. Students will focus on building a strong knowledge base and analytical skills. Classwork will consist of lecture, discussion, and activities while homework will include reading selections, and worksheet activities. **No supplements needed.**

Class Title:	Middle School U.S. History		
Teacher:	Retallack	Rating:	3
Text:	various	Grade:	6-8
Prerequisite:	none		
Credit:	Full-Curriculum	Max:	16

Description: During this class we will explore the themes of American history, which have led to the development of our modern American identity. This course has a strong emphasis on learning about events, geography and people who shaped American History. **No supplements needed.**

Middle and High School Classes

Class Title:	Global Experiences		
Teacher:	Retallack	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	0.5 (HS only)	Max:	16

Description: In this class, we will study selected countries in Africa and the Middle East, Australia, and Countries in the Caribbean Sea. Study will include geography, brief histories, language, and cultural traditions to include: holidays and celebrations, dress, and traditional food. We will cook a dish during class approximately 6 times during the year. ***This class is not recommended for students with lots of food allergies and sensitivities.**

Class Title:	Fashion Design/Sewing		
Teacher:	Retallack	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	0.5 (HS only)	Max:	10

Description: No sewing experience necessary! Students will learn the basics of sewing and patterns and will make multiple items of clothing throughout the year. Students will start with small projects to practice basic sewing skills and then will progress on to sewing patterns as they are ready. For the final project, students will be able to create their own patterns and sew an item of their own creation. Students will need to supply their own material, thread, and patterns a few times during the year. More details and instructions will be given in the class when these are required.

Class Title:	High School Physical Science		
Teacher:	To Be Determined	Rating:	3
Text:	Pearson	Grade:	8-12
Prerequisite:	none		
Credit:	1.0 (HS only)	Max:	16

Description: Physical Science is a pre-chemistry and pre-physics course for upper-middle and beginning high school students. The course emphasizes the study and proper use of fundamental science tools through regular laboratory activities and the introduction and reinforcement of concepts and principles of physical science. **No supplements needed.**

Class Title:	MS Life Science		
Teacher:	To Be Determined	Rating:	3
Text:	TCI	Grade:	6-8
Prerequisite:	none		
Credit:	Full-Curriculum	Max:	16

Description: Middle School Life Science is a full-curriculum course in which students study topics concerning the living world through reading, writing, and lab inquiry activities at Homework will include reading, note taking, on-line testing, and some at-home projects. **No supplements needed.**

Class Title:	Robotics/Electronics		
Teacher:	To Be Determined	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none	Min:	
Credit:	0.5 (HS only)	Max:	16

Description: Students will use several hands-on products, including Lego EV3 Mindstorm robotics kits, iPads, Osmo, and drones to learn basic building, coding, and programming skills. Students will explore the use of robots in everyday lives and in industry, while considering the endless possibility of the use of robots. This class is great for problem solving, cooperative learning, and developing creativity. One of the team activities will be a battle bot competition with the EV3 robots. Beginner and experienced robotic students will enjoy this class.

Class Title:	Forensic Science		
Teacher:	To Be Determined	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none	Min:	4
Credit:	0.5 (HS only)	Max:	16

Description: Students will investigate the world around them through the lens of the scientific method. It may include blood typing, chromatography, fingerprinting, hair & fibers, and imprint evidence. This course will be primarily hands-on, and will include lots of experiments and information gathering.

Middle and High School Classes

Class Title:	Mixed Media Art		
Teacher:	Klem	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	0.5 (HS only)	Max:	16

Description: Students will be introduced to a variety of mediums: drawing, pastels, printmaking, watercolors, acrylic paint, plaster, wire, and clay. Emphasis will be placed on craftsmanship, creativity and application of the elements and principles of design. This class is for everyone, working on different projects throughout the year to encourage each artist's own personal creativity. Students will discover what they love to do and grow in their skills. A sketchbook will be maintained for research and planning.

Class Title:	Ceramics/Sculpture		
Teacher:	Klem	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	0.5 (HS only)	Max:	16

Description: We will create sculptures using a variety of materials: clay, wire, recycled materials, paper, cardboard, found objects and plaster creating artwork based on a theme or concept. Students will learn clay hand building techniques of pinch, slab, and coil by building a variety of containers and sculptures. Inspiration will be presented from past and contemporary sculpture artists. Emphasis will be placed on craftsmanship, creativity and application of the elements and principles of design. The ability to generate original solutions to design problems will require basic drawing skills, creative thinking, and artistic exploration of possible approaches. Weekly sketchbook assignments that require drawing, reflection and research are part of the curriculum.

Class Title:	Art with the Masters		
Teacher:	Klem	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	0.5 (HS only)	Max:	16

Description: Are you curious about Van Gogh, Picasso, Frida Kahlo, and Yayoi Kusama? We will learn about past and contemporary artists, movements, styles, and periods. Students will draw inspiration from artists from a wide variety of time periods and cultures. Students will utilize a variety of mediums: drawing, pastels, printmaking, watercolors, acrylic paint, wire, and clay. Weekly sketchbook assignments that require drawing, reflection and research are part of the curriculum.

Class Title:	Secondary PE		
Teacher:	Klem	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	0.5 (HS only)	Max:	16

Description: This course provides students with the opportunity to learn a variety of sports and sport related movements as well as health and fitness concepts. Students will also learn about a healthy lifestyle by exercising and eating right and learning healthy eating habits. Emphasis is placed on active participation and positive social interaction during fitness and sport activities. Students will keep a weekly healthy eating and activity journal. Tennis shoes and water bottle required. No flip-flops or boots please.