

Greenwood **OPTIONS** Program

2023-2024 Class Descriptions Grades 6-12

Middle and High School Classes

CLASS RATING GUIDE

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

Class Title:	Pre-Algebra		
Teacher:	Stapleton	Rating:	3
Text:	Math-U-See	Grade:	6-8
Prerequisite:	Completion of an elementary math curriculum and/ or placement test		
Credit:	N/A	Max:	16

Description: Pre-Algebra is a course that covers many mathematical concepts designed to get students ready for Algebra 1. We will study everything from operations with positive and negative numbers to equations and exponents to volume and surface area. The class is lecture based with lots of examples given. Homework is 6 workbook pages a week - 3 of these pages are on the new material and 3 cover a variety of review concepts. There will also be tests sent home many of the weeks. Students in Pre-Algebra are normally in 6th, 7th or 8th grade.

Class Title:	Algebra I		
Teacher:	Stapleton	Rating:	3
Text:	Math-U-See	Grade:	6-12
Prerequisite:	Pre-Algebra with a grade of C or better		
Credit:	1.00 (HS only)	Max:	16

Description: Algebra 1 is the foundation for all future math courses. We study equations, graphing, factoring and many other mathematical concepts. The class is lecture based and taking notes is a must. Homework is 5 pages a week - 2 of these pages are on the new material and 3 cover a variety of review concepts. There will also be tests sent home many of the weeks.

Class Title:	Geometry		
Teacher:	Stapleton	Rating:	3
Text:	Math-U-See	Grade:	9-12
Prerequisite:	Algebra 1 with a grade of C or better or placement test		
Credit:	1.00	Max:	16

Description: Geometry is the math course where students learn about spatial relationships (with area, volume and shapes) and also develop their logical senses with proofs. The class is lecture based and taking notes is a must. Homework is 5 pages a week - 2 of these pages are on the new material and 3 cover a variety of review concepts. There will also be tests sent home many of the weeks.

Class Title:	Algebra 2		
Teacher:	Stapleton	Rating:	3
Text:	Math-U-See	Grade:	9-12
Prerequisite:	Algebra 1 and Geometry with a grade of C or better or placement test		
Credit:	1.00	Max:	16

Description: Algebra 2 is an advanced Algebra course and a pretty intense curriculum. We will study equations, conic sections, factoring, distance problems and many other concepts. The class is lecture based and taking notes is a must. Homework is 5 pages a week - 2 of these pages are on the new material and 3 cover a variety of review concepts. There will also be tests sent home many of the weeks.

Class Title:	Middle School Math		
Teacher:	Stapleton	Rating:	1
Text:	various	Grade:	6-8
Prerequisite:	none		
Credit:	N/A	Max:	16

Description: New this year! This math class is designed to **enrich** the middle school math being done at home. Concepts covered include: Fractions, Decimals, Basic Probability and Statistics, Types of Graphs, Area and Perimeter and an Introduction to Integers. Your students can participate in high quality math lessons in a challenging but fun educational environment. Students can expect about 1 hour of homework per week. **This class is NOT a full credit math class** and is intended to be done BEFORE Pre-Algebra. Students should supplement this course with a full math curriculum at home.

Class Title:	Middle School Writing		
Teacher:	Been	Rating:	1
Text:	none	Grade:	6-8
Prerequisite:	none		
Credit:	N/A	Max:	16

Description: This project-based writing class is designed to teach students basic skills necessary for effective writing at the middle school level -- research, essay writing, narrative and expository writing, fiction and figurative language-- in an upbeat and engaging manner. Students complete approximately five major writing projects per school year in a teacher-structured environment, giving students the opportunity to develop their long-term planning skills. Class material is designed on a rotation so that students have the opportunity to take this class all three middle school years and never experience the same project twice.

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Class Title:	Game Creation		
Teacher:	Been	Rating:	3
Text:	various	Grade:	9-12
Prerequisite:	none		
Credit	1.00	Max:	16

Description This course combines engagement with academic rigor, mixing them into one wonderful package. Students will play paper-and-pencil, dice, card, and board games, along with doing scavenger hunts and escape rooms. They will also explore the theory behind these types of games and create competent and interesting versions of their own. In this class, students will conduct and report on game-related research and will learn and practice technical writing skills.

Class Title:	Creative Writing		
Teacher:	Been	Rating:	2
Text:	none	Grade:	9-12
Prerequisite:	none		
Credit	.50	Max:	16

Description: This course is about experimenting with writing! A great amount of emphasis will be placed on developing and exploring ideas for writing. Students will be stretched to write in numerous different genres, including nonfiction, fantasy, realism, and poetry; and in many different lengths -- from flash fiction to novel-length drafting. Students will be expected to share their work with others, giving and receiving feedback in writing groups.

Class Title:	Fantasy Literature in Middle School		
Teacher:	Douglas	Rating:	1
Text:	Various	Grade:	6-8
Prerequisite:	none		
Credit:	N/A	Max:	16

Description: This class is an introduction to middle-school literature. We will explore the fantasy genre by delving into various texts and excerpts from different writers. Students will develop literary analysis and writing skills. They will also create pieces of fantasy literature.

Class Title:	French 1A		
Teacher:	Douglas	Rating:	2
Text:	None	Grade:	6-12
Prerequisite:	None		
Credit	.50 (HS only)	Max:	16

Description: Gain an understanding or consolidate your basic knowledge of French. We will focus on useful phrases, vocabulary awareness and basic conversation. We will also gain an appreciation of culture in the French-speaking world. The focus is on speaking and listening, through fun games and interactive activities.

Class Title:	French 1B		
Teacher:	Douglas	Rating:	2
Text:	None	Grade:	6-12
Prerequisite:	Completion of French 1A (or equivalent class) with a grade of C or better		
Credit	.50 (HS only)	Max:	16

Description: This course is a continuation from Introduction to French 1A.

Consolidate and expand your knowledge of French. We will build on useful phrases, vocabulary and conversation. We will continue to gain an appreciation of culture in the French-speaking world. The focus is on speaking and listening, through fun games and interactive activities.

Class Title:	French 2A		
Teacher:	Douglas	Rating:	1
Text:	None	Grade:	9-12
Prerequisite:	Completion of French 1B (or equivalent class) with a grade of C or better		
Credit	.50 (HS only)	Max:	16

Description: This course is a continuation from French 1B.

Expand your knowledge of French. We will build on useful phrases, vocabulary and conversation. We will continue to gain an appreciation of culture in the French-speaking world. The focus is on essential grammar, speaking and listening, through interactive activities.

Class Title:	Chemistry (Lecture & Lab)		
Teacher:	Seese	Rating:	3
Text:	Pearson Chemistry	Grade:	9-12
Prerequisite:	none		
Credit:	1.00	Max:	16

Description: This is a two-period, year-long class where both sections are required. It is a combination of instruction and laboratory practice and application. This is a full curriculum course. Expect 5 hours of work outside of class

***Note: Chemistry is a 2 part course. Students MUST take both the Chemistry Lecture and Lab.**

Class Title:	Introduction to Chemistry		
Teacher:	Seese	Rating:	2
Text:	Friendly Chemistry	Grade:	8-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description: This one-period class is a year-long course that will establish a solid understanding of the elements and how chemicals form and interact. There will be occasional laboratory practice as part of the class. While not a prerequisite, taking this course first would help ease students into Chemistry Lecture and Lab.

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Class Title:	Science Topics in the News		
Teacher:	Seese	Rating:	2
Text:	Various	Grade:	8-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description: This course takes a look at science topics that end up in the media. We will explore the topics to an extent that will enable the student to make informed decisions based on the facts, not just opinion. Class discussions of how science, the media, money and politics play a role in decisions made by people, corporations and the government will also be a part of the course. Some of the topics that may be covered include climate change, pollution, medical advances in technology and genetics, energy – renewable and non-renewable, SARS CoV-2 and its variants, and many others. Some of the skills that will be practiced in this course include researching, analysis of statistics, and logical thinking. Some basic knowledge of physical science, chemistry, and biology is helpful, but not required. Grades will be based on summative assessments (unit tests) and project completion.

Class Title:	Laws of Physics		
Teacher:	Seese	Rating:	2
Text:	various	Grade:	9-12
Prerequisite:	none		
Credit:	.50	Max:	16

Description: This physics course covers the topics of a high school physics course, but without going into the higher math one might find in an AP physics or senior physics course. The topics covered will prepare the student for more advanced courses in physics. This course looks at the physical laws of the universe such as, the laws of motion, forces, gravity; work, energy, and thermodynamics; waves, light and sound; electricity and magnetism; and, of course, the skills involved in using the scientific method, experimenting and analysis, and application of the laws we study.

Class Title:	Forensic Science		
Teacher:	Ruis	Rating:	1
Text:		Grade:	6-8
Prerequisite:	none		
Credit:	N/A	Max:	16

Description: This course is based on principles and procedures employed in criminal and civil investigations and introductory analyses performed by forensic scientists. It relates many areas of scientific endeavor to real-life situations. The course will focus on applying current scientific methods to the collection, documentation, preservation, examination, and interpretation of physical evidence, using modern laboratory technologies and procedures.

Class Title:	Medical Detectives		
Teacher:	Ruis	Rating:	1
Text:	PLTW Access	Grade:	6-8
Prerequisite:	none		
Credit:	Full Curriculum	Max:	16

Description: In the Medical Detectives class, students play the role of real-life medical detectives as they collect and analyze medical data to diagnose disease. They solve medical mysteries through hands-on projects and labs, measure and interpret vital signs, dissect a sheep brain, investigate disease outbreaks, and explore how a breakdown within the human body can lead to dysfunction.

Class Title:	Biology Lecture & Lab		
Teacher:	Ruis	Rating:	3
Text:	Miller & Levine Biology	Grade:	9-12
Prerequisite:	none		
Credit:	1.00	Max:	16

Description: Biology is a full-curriculum course about principles and concepts concerning the living world and requires enrollment in Biology Lecture and Lab sections concurrently. It is a class for the highly motivated independent high school learner because of the large amount of material to be covered. The focus of biology lecture is on content knowledge and critical thinking about topics including ecology, cells and cell functions, genetics, evolution, and the diversity of living organisms. The focus of biology lab is on understanding the processes of scientific investigation and learning to design, conduct, communicate about, and evaluate such investigations. Students learn proper use of laboratory tools such as microscopes and conduct independent research into biology topics. Dissections will include flowers and both invertebrate and vertebrate animals. The human body is not covered in this class. Expect 2-3 hours of homework each week, generally consisting of reading, completing study guides, studying vocabulary terms, completing lab write-ups, and working on research projects. In-class vocabulary quizzes and online chapter/unit tests taken at home assess content knowledge.

***Note: Biology is a 2 period course. Students are required to take both sections.**

Class Title:	Earth and Space Science		
Teacher:	Ruis	Rating:	3
Text:	TCI	Grade:	6-8
Prerequisite:	none		
Credit:	Full Curriculum	Max:	16

Description: Middle School Earth and Space Science is a full-curriculum course in which students study topics concerning earth and space through reading, writing, and lab inquiry activities at a level appropriate for all middle school students. Expect an average of 1 hour of homework each week, to include reading, other assignments to prepare for class, and on-line testing.

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Class Title:	Middle School Spanish		
Teacher:	Rodriguez	Rating	2
Text:	Exploring Spanish	Grade:	6-8
Prerequisite:	none		
Credits:	N/A	Max:	16

Description: This course is an introductory course to Spanish. The goal is to introduce students to the Spanish language and provide them with vocabulary covering a wide range of topics and also an introduction to basic conversations. The course will also cover some cultural topics that will encourage the student's interest in the language. It will also include projects, games, songs, videos, and vocabulary building. Students will have access to the companion textbook and other activities online. There will be written and/or online homework weekly.

Class Title:	Spanish 1		
Teacher:	Rodriguez	Rating	2
Text:	Realidades	Grade:	9-12
Prerequisite:	none		
Credit:	.50	Max:	16

Description: This class is a more accelerated introduction to the Spanish language than lower levels. Students will be learning vocabulary, grammar and structure through reading, writing, listening, repetition, communication, videos, and culture. Classroom instruction will be used to supplement students' study of textbook at home and written homework will be assigned weekly to reinforce instruction. Students are asked to bring a 70-page, college-ruled notebook to use specifically for Spanish and will be taking notes and also gluing handouts in the notebook.

Class Title:	Spanish 2		
Teacher:	Rodriguez	Rating	2
Text:	Realidades	Grade:	9-12
Prerequisite:	Spanish 1 with B or higher		
Credit:	.50	Max:	16

Description: This class is an accelerated continuation of Spanish 1 from the Realidades series. Focus will continue on vocabulary acquisition, grammar and structures, including verb conjugations in different tenses. Students will be learning material through reading, writing, listening, repetition, communication, videos, and culture. Classroom instruction will be used to supplement students' study of textbook at home and written homework will be assigned weekly to reinforce instruction. Students are asked to bring a 70-page, college-ruled notebook to use specifically for Spanish and will be taking notes and also gluing handouts in the notebook.

Class Title:	Introduction to Robotics		
Teacher:	Allshouse	Rating:	1
Text:	Lego Mindstorms EV3/SnapCircuits	Grade:	6-12
Prerequisite:	none		
Credit:	.25 (HS only)	Max:	16

Description: This course will explore the electronic and computing aspects of scientific technology by building and programming robots using Snap Circuits, Lego Mindstorms and EV3 kits. Topics covered include electronics of robots, understanding electricity and circuits, robotic programming, and computers and basic computing skills. Students will learn to work together to complete challenges with the robots they create and program, design simple machines and understand how they work, learn the basics of programming robots using a unique programming language created by Lego, and just plain have fun! A wonderful experience for boys and girls alike!

Class Title:	Computer Science Discoveries I		
Teacher:	Allshouse	Rating:	1
Text:	none	Grade:	6-8
Prerequisite:	none		
Credit:	N/A	Max:	16

Description: Computer Science Discoveries 1 will teach problem solving and game design using block programming and JavaScript. This class is intended for students with limited to no coding experience, but will also help students with some programming experience develop the needed problem solving skills necessary to create games and interactive art. Student will use example programs and activities on code.org to increase their understanding of animation and change. "Along the way, they practice design, testing, and iteration, as they come to see that failure and debugging are an expected and valuable part of the programming process."(code.org).

Class Title:	First Tech Challenge Competition Team		
Teacher:	Allshouse	Rating:	3
Text:	none	Grade:	8-12
Prerequisite:	see description		
Credit:	1.00	Max:	8

Description: First Tech Challenge (FTC) is a whole year robotics class and competition team offered for students in 8th-12th grade. As a competition team they are expected to stay for practice from 3:30-6:30pm each Friday during first semester. There are additional Saturday workshops and the competition is mandatory. Each year, teams engage in a new game where they design, build, test, and program autonomous and driver operated robots that must perform a series of tasks.

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Class Title:	STEAM Explorations		
Teacher:	Allshouse	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	12

Description: Learn new skills and make amazing projects! In this technology-based makerspace, you will learn how to set up circuits, program an Arduino Uno, and use Sketchup to design 3D printed parts. To succeed in this class, all you need is a desire to try something new and to apply the engineering design process to turn a challenge into success. Some programming skills may be helpful but are not necessary. We will start from the beginning and learn as you build each of the small individual projects, which will include LEDs, buzzers, joysticks, and thermometers. These new skills can be applied to design a smart house, robots, wearable art, or electronic toys and games. Arduino Uno is a microcontroller, controlled by a computer program, used to control lights, sensors, motors, and many other electronic components. Sketchup is a computer aided design (CAD) program for creating models, modifying ideas, and printing on a 3D printer. Prototypes will be created and modified. Larger projects are available for those who want to do more. Sketchup homework will be required.

Class Title:	Guitar		
Teacher:	Fraser	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description: This class will introduce the student to reading notes, rhythms, dynamics, tempos, reading tabs while playing the instrument. Opportunities to play duets and trios. We will explore finger picking.

Class Title:	Improv		
Teacher:	Fraser	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description: In this class we will learn to strategically analyze information, verbally and nonverbally. Strengthen listening skills. Assess what information most accurately and reliably responds to the needs of the character, the action, and the audience. To interpret information/messages from different perspectives. Ability to understand how play stimulates the mind and enhances personal knowledge of oneself Ability to understand the beginning elements necessary to shape a variety of characters .Ability to work with others in groups Ability to take criticism in a positive progressive manner Ability to experience and explore spontaneity.

Class Title:	Performing Arts		
Teacher:	Fraser	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description We will explore Improv, guitar, keyboard, and a few aspects of the stage such as stage directions, voice projection etc.

Class Title:	Technical Theater		
Teacher:	Fraser	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description: Costuming/Make-up/Props
Costuming: We will explore the time period of a performance work. Discuss what would have been used in the time period. We will take articles of clothing and make them into period appropriate costumes. Unfortunately, we will not be creating costumes from scratch.
Make-up: Discover how to apply aging make-up. Example: Techniques that would enhance a bird character or a tree and other characters.
Props: Learning how to create props for performances. Some props will need to be finished outside of school.

Class Title:	Musical Theater		
Teacher:	Fraser	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description: We will put on a musical with costumes, props, make up and choreography. Students will need to learn their lines outside of school. One hour a week is recommended.

Class Title:	Drawing I & II		
Teacher:	Robertson	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none	Min:	4
Credit:	.50 (HS only)	Max:	16

Description: This class is focused on the Elements and Principles of Design as a foundation to drawing skills throughout the year. We use various mediums and themes to give students a variety of ways to express themselves. The class will cover Contour drawing, value studies, still life, perspective, self-portrait, optical illusions and aspects of illustration in design. It's a time for students to explore, learn and develop their ability to "see" and use their love of drawing to portray their experiences and the world around them.

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Class Title:	Painting I & II		
Teacher:	Robertson	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description: This course will focus on the 20th Century artists who covered many styles, themes, and mediums to express themselves. By using these artists and their work as inspiration, students will be introduced to varied mediums and techniques to build skill and understanding of how to use the materials so that they will have full freedom for self-expression. We will explore watercolor, oil pastel, mixed media, & acrylic in a variety of themes and genres. Creativity and imagination, along with proficiency of manipulating materials will set the stage for creating amazing art.

Class Title:	Sculpture & Mixed Media		
Teacher:	Robertson	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	Drawing I & II		
Credit:	.50 (HS only)	Max:	16

Description: Students in class will discover a wide variety of mediums and ways to create art in 3D. We will be inspired by artists past and present as well as movements of art in history to help develop understanding. We will work with plaster, clay, cardboard, wire, and mediums like paint, & sand to enhance our creations. Every genre from fine art sculpture to whimsy folk art & craft will be experienced by students as they learn to manipulate varied materials into their own expressions.

Class Title:	Ceramics		
Teacher:	Robertson	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none	Min:	4
Credit:	.50 (HS only)	Credit:	.50

Description: This course will be diverse in scope as we work to develop skills and understand the history of pottery and sculpture from various artists and time periods. Students will learn various pottery skills using coil, slab and pinch methods of hand building. The result will be a student's ability for personal creative expression. Learning varied techniques in glazing application and surface design add to the foundations of producing fine art. We will incorporate varied sculptural themes with clay and found materials as well. This allows students to show off their imagination and creativity using their increased understanding of the medium in the finished product. This class is designed for students who enjoy exploring new materials, ideas, and creating with a unique medium.

Class Title:	Choir		
Teacher:	Mc Irvin	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)		

Description: From choral literature to original songwriting; from a cappella singing to accompanied; this is the class for those who love to sing! Students will learn to read and interact with vocal music. Expect part-singing, solo opportunities, rounds, music reading and writing, and improvising in a safe and fun environment.

Required Winter and Spring performances.

Homework is assigned to support skills in musicianship.

Class Title:	Handbells		
Teacher:	Mc Irvin	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	16

Description: Being immersed in the ringing sonorities of a handbell choir is unlike anything else. It is power, subtly, achievement, music, coordination, and exhilaration all in one! Add in the fact the school owns and set of *professional handbells* and this is one class you don't want to miss!

Students will learn or improve in: music-reading, rhythm awareness, hand-eye coordination, and teamwork. As a performance class, students are required to perform in both the Fall and Spring concerts. Homework will be assigned throughout the year to support skills in musicianship.

Required Winter and Spring performances.

Homework is assigned to support skills in musicianship.

Class Title:	Digital Music		
Teacher:	Mc Irvin	Rating:	2
Text:	none	Grade:	9-12
Prerequisite:	none	Min:	4
Credit:	.50 (HS only)	Max:	16

Description: Video game music, one-man bands, vlogs, techno music, loops, hooks, and grooves. This class is an entry into the limitless modern world of digital music-making!

In this project-oriented class, students will explore with free DAWs (digital audio workstations) to both manipulate and build from existing loops and to create music and audio with digital instruments.

Programs utilized include OnlineSequencer, SoundTrap, Audacity, Pro Tools Intro trial, FL Studios trial, etc. Projects will be mostly individual with some collaborative work and classwork will require ability in file-saving, -sharing, and -retrieval. Homework will require students to learn and use various DAWs at home to complete projects.

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Class Title:	Taiko Drumming		
Teacher:	Mc Irvin	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none		
Credit:	.50 (HS only)	Max:	12

Description: Drums are the most pervasive instruments in the world, found in every culture from ancient times to today. This class focuses on the drumming tradition, history, and modern application of the *Japanese Taiko Ensembles*.

Taiko drumming is all about the melding of drumming with martial arts-style choreography. Music aside, it is a great physical outlet and stress reliever!

Required Winter and Spring performances.

Homework is assigned to support skills in musicianship.

Class Title:	Physical Education		
Teacher:	Ruehmann	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none	Min:	6
Credit:	.50 (HS only)	Max:	16

Description: This class will focus on team activities, life time activities, and sportsmanship. Activities will include basketball, football, volleyball, soccer, fitness cards, etc.

Class Title:	Strength and Conditioning		
Teacher:	Ruehmann	Rating:	2
Text:	none	Grade:	6-12
Prerequisite:	none	Min:	6
Credit:	.50 (HS only)	Max:	18

Description: This class will focus on developing health related fitness including muscular strength, muscular endurance, cardiovascular endurance, balance and flexibility. This course will give students the tools to be physically fit throughout their lifetime. Students will perform a variety of exercises and techniques, allowing them to discover exercises they enjoy and those that work best for them. Students will design an individual fitness plan with goals, that best fit their needs.