

12th Grade Electives

Trimester 1	Trimester 2	Trimester 3
<b>Art Electives</b>	<b>Art Electives</b>	<b>Art Electives</b>
Chorus* (Weaver) (afternoon)**	Chorus* (afternoon)(Weaver)	Chorus * (Weaver)
<b>English Electives</b>	<b>English Electives</b>	<b>English Electives</b>
Poetry (Lyskava)	Horror Fiction (Lyskava)	Mythology (Lyskava)
Text to Film (Luft)		The Nature of Belief: Cults and Conspiracies (Luft)
<b>Financial Lit/Business Electives</b>	<b>Financial Lit/Business Electives</b>	<b>Financial Lit/Business Electives</b>
Investing (Shaner)	Real Estate (Mellinger)	
	Investing (Shaner) (AFTERNOON)	
<b>Health/Fitness Electives</b>	<b>Health/Fitness Electives</b>	<b>Health/Fitness Electives</b>
Mental/Emotional Health Literacy (Burns)	First Aid & Safety (Gitzen)	First Aid & Safety (Gitzen)
Strength Training (Gitzen)	Strength Training (Gitzen)	Boxing (Burns)
Lifetime Fitness (Gitzen)		POUND® Fitness Drumming/Xtreme Hip Hop® Step
<b>History Electives</b>	<b>History Electives</b>	<b>History Electives</b>
Violence in America (O'Connor)	Modern World (O'Connor)	Sports and Politics (O'Connor)
<b>Math Electives</b>	<b>Math Electives</b>	<b>Math Electives</b>
Transition to College Mathematics and Statistics(Kohnen) (afternoon)	Math Through 3D printing (Kohnen)	Math History & Appreciation (TBD)
Math Games and Recreation (TBD)	College Algebra (Graziano) (AFTERNOON)	(Origami) (Kohnen) (afternoon)

		Strange Patterns and Chaos Theory (Mellinger)
<b>Science Electives</b>	<b>Science Electives</b>	<b>Science Electives</b>
Anatomy and Physiology (Bozic) (afternoon)	Anatomy & Physiology (Bozic) (AFTERNOON)	Forensics (Bozic)
Microbiology (Pascuzzi)	Intro to Manufacturing and Engineering (Pascuzzi)	Ornithology (Pascuzzi)
<b>Spanish Electives</b>	<b>Spanish Electives</b>	<b>Spanish Electives</b>
Spanish for Life: Your Next Adventure! (Garman)	Spanish Flair: Sports & Fashion (Garman)	TBD (Garman)
<b>Technology Electives</b>	<b>Technology Electives</b>	<b>Technology Electives</b>
Programming/Coding (Mellinger)	Artificial Intelligence (Shaner) (AFTERNOON)	Computer Repair (Shaner)

\*Chorus may be taken more than once

**TRI 2 SENIOR Electives**

Course (Teacher)	Description
<b><i>Horror Fiction (Lyskava)</i></b>	<p>This course is for current and aspiring horror fans. Students enrolled in this class will be able to explore their own personal interests in horror fiction, but they will also develop a “big picture” appreciation for some of the most iconic horror stories and films of all time. They will examine how and why fear attracts us to horror fiction, what defines different horror subgenres (and why they matter), and how horror stories reflect the historical and cultural contexts they originate from.</p> <p><i>**Horror Fiction readings and films will include sensitive material, such as violence and the supernatural, so please be mindful of that when selecting this course.</i></p>
<b><i>Real Estate (Mellinger)</i></b>	<p>Do you want to buy your own house? Have you ever had an interest in being a real estate investor? Do you want to know the ins and outs of buying rental properties and the day-to-day of being a landlord? Or maybe you are interested in flipping properties?</p> <p>In this class, we will cover everything from purchasing a property to managing tenants. Other topics will include financing, what to expect when closing on a property, maintenance of your properties, how to build a network to help you start out as a young and new investor, how to make a profit on your property, etc. We will also hear from several guest speakers who have experience in the world of real estate investing!</p>
<b><i>Strength Training (Gitzen)</i></b>	<p><b>This class will focus on improving muscular strength, muscular endurance, agility and overall body composition through strength training. All classes will be held in the fitness center and will include a variety of programming principles that will meet each individual’s goals. Course content will include basic anatomy, elements of strength programming, improving sports performance, and benefits to body systems. Students will be expected to complete both in-class workouts and out-of-class planning/preparation workout logs. The Juggernaut Strength Training Program will be implemented throughout the trimester which implements the principle of progressive overload via percentages based on max lifts.</b></p>

<p><b>First Aid and Safety (Gitzen)</b></p>	<p><i>In this course you'll be learning about the various techniques and methods used in First Aid &amp; Safety to treat various injuries ranging from cuts to broken bones. First Aid &amp; Safety is the initial assistance or care of a suddenly sick or injured person. It is the care administered by a person as soon as possible after an illness or accident. In addition, you'll learn how to perform CPR/AED by studying the techniques and procedures used. Students who take this course will have the opportunity to get First Aid and CPR certified at the conclusion of this course as well (*Pass Physical &amp; Written Test) This is a discussion based, and hands on class so students should be prepared to take notes, contribute to discussions and participate.</i></p>
<p><b>Modern World (O'Connor)</b></p>	<p>This is a <u>discussion-based course</u>, in which students will examine the largest challenges facing human beings today <i>and in the future</i>. Pandemics, social media and digitized life, climate change, nuclear and biological weaponry, refugee crises, wealth inequality, automation and artificial intelligence, space exploration, and much more, students will analyze the forces which create and sustain these issues - and what is being done to address them.</p>
<p><b>Math Through 3-D printing (Kohnen)</b></p>	<p>Incorporate mathematics into the design and creation of 3D printed models. Topics vary but might include tessellations, creating Platonic and Archimedean solids, fractals, geometry applications, math puzzles, and data visualization. Students will use an online 3D modeling program for creating and printing projects.</p>
<p><b>Manufacturing and Intro to Engineering (Pascuzzi)</b></p>	<p>This course will include an intro to engineering unit where students will focus on basic engineering skills through the planning, designing and building of various projects. We will use the engineering design loop to study the ways that engineers solve problems. This course will also focus on manufacturing skills needed to enter the workforce including measurement, conversions, and print reading. A large part of this course will be spent participating in the <b>Manufacturing Innovation Challenge!!</b>You will work with a team to develop a solution to a problem posed by an outside manufacturing company. As you act as a consultant for this company you will be solving a real world problem in a hands-on way and presenting your team's idea to the company. You will need to think outside the box and be able to communicate with your group AND the outside company.</p>

<b>Spanish Flair (Garman)</b>	<p>¡Bienvenidos al Español Divertido! Get ready for a dynamic and engaging Spanish class where we'll explore daily routines, clothing, sports and the incredible legacy of Roberto Clemente. Along the way, we'll conquer reflexive verbs and delve into the rich culture and traditions of Spanish-speaking countries. But that's not all! To showcase your language skills and unleash your inner fashionista, we'll wrap up the course with an exciting fashion or art show video project. Get ready to have fun, expand your Spanish fluency, and embrace the vibrant world of Hispanic culture! ¡Vamos!</p>
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*Afternoon Only Electives - Do not choose if you are on internship*

<b>Chorus* (Weaver) (afternoon)</b>	<p>This course is for students who are interested in improving their singing voice. We will prepare pieces of music ranging from Broadway Show tunes to African Folk Songs. All students participating will be required to sing at one Evening Choral Concert, with the expectation that there may be additional performance opportunities throughout the trimester outside of school.</p>
<b>College Algebra (Graziano) (afternoon)</b>	<p>This course is designed to strengthen and increase the understanding of basic algebraic concepts before a student undertakes advanced study in mathematics. Topics include algebra of the real numbers, algebraic, exponential, and logarithmic functions and their graphs, systems of equations, inequalities, and absolute value.</p>
<b>Anatomy and Physiology/(B ozic)</b>	<p>Anatomy and Physiology is the study of the structure and function of organs and body systems. This course is for those students interested in biology and health-related fields (nursing, nurse assistant, physician, physician assistant, bioengineering, pharmacy, emergency medicine, etc.). Students will conduct various dissections, including but not limited to sheep hearts, cow eyes, sheep brains, and minks. Students will gain a basic understanding of human organs and organ systems, homeostasis and metabolism. <b>This course requires dissection.</b></p>

***Investing  
(Shaner)***

In this course you will learn how to make your money work for you. We will talk about the investing process, understand the basic tools of investing, and get practical experience in establishing and monitoring a portfolio. Topics include cryptocurrency, NFTs, stocks, bonds, 401K/Retirement Planning, mutual funds, interest and online investment tools to name a few.

***Artificial  
Intelligence  
(Shaner)***

In this course you will learn what Artificial Intelligence (AI) is, explore use cases and applications of AI, understand AI concepts and terms like machine learning, deep learning and neural networks. You will be exposed to various issues and concerns surrounding AI such as ethics and bias, & jobs. This course does not require any programming or computer science expertise and is designed to introduce the basics of AI to anyone whether you have a technical background or not.