

JERICHO HIGH SCHOOL

8TH into 9TH Grade Course Offerings

2026-2027

Table of Contents

[Diploma Requirements](#)

[Advanced Coursework Opportunities and GPA Weighting](#)

[Business Education](#)

[English Language Arts](#)

[Family & Consumer Science](#)

[Fine Arts](#)

[Mathematics](#)

[Performing Arts](#)

[Physical Education](#)

[Science](#)

[Social Studies](#)

[Technology](#)

[World Language](#)

Diploma Requirements

New York State diploma requirements are established by the New York State Education Department and apply to students based on their entering cohort. At this time, students entering high school will follow the current, approved graduation requirements. The New York State Education Department has proposed future updates to graduation requirements as part of the Portrait of a Graduate initiative; however, these proposals are not yet finalized. Families will be informed of any approved changes as additional guidance is provided by NYSED.

Click on the link below to view current diploma requirements:

<https://www.nysed.gov/sites/default/files/programs/standards-instruction/currentdiplomarequirements.pdf>

Advanced Coursework Opportunities and GPA Weighting

Jericho UFSD is committed to expanding access to advanced coursework and ensuring that all students and families are informed about available opportunities and the benefits of participation. In Jericho, advanced coursework includes accelerated courses, Advanced Placement (AP) courses, and dual enrollment opportunities (C), some of which may offer college credit. These courses are designed to provide students with appropriately rigorous academic experiences aligned with their interests, goals, and readiness. Detailed descriptions of individual courses and sequencing recommendations are outlined throughout this Course Offerings Guide.

Availability of advanced coursework varies by grade level and department. Students and families are encouraged to consult with their school counselor when planning an academic program and selecting courses.

At Jericho High School, students are not ranked. All grades for courses taken at Jericho High School are included in the GPA, with the exception of Physical Education. Grades shown on the transcript are unweighted and are used to calculate the unweighted cumulative GPA. For the purpose of calculating a weighted cumulative GPA, additional weight is applied based on course level, in accordance with the following system:

- **Advanced Placement (AP), Post-AP, and Research courses:** +0.4
- **Courses taught in association with a college (C):** +0.3
- **Regents and all other courses:** +0.2

Additional information regarding advanced coursework options, GPA calculation, and academic supports is available through the school counseling department.

Business Education

4711: The Science & Business of Agriculture

This is an interdisciplinary course that explores science, business, and family and consumer science curriculum. It is a hands-on, project-based course focusing on topics including gardening, farming, botany, hospitality management, and food science. The course seeks to analyze these topics all the while considering the impacts of technology, culture, and externalities. Students will develop understandings of natural and agricultural sciences, evaluate impacts of agricultural practices on output and the environment, and create outdoor gardens conducive to plant growth. This course will review and evaluate the food system and industries surrounding it, agriculture business systems, and food entrepreneurship while considering environmental, societal, and corporate governance. Students will have the opportunity to research the cultural heritage and relevance of food and the role it plays in communities. By leveraging an interdisciplinary co-teaching model, the course will highlight the intersections of these three content areas while engaging students in authentic learning experiences.

Prerequisite(s): None

Grades: 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

6121: Entrepreneurship

This course is designed to provide students interested in a business venture the opportunity with class instruction of how to establish a business. Once this business is established groups of students will be charged with the responsibility of designing and producing a marketable product. They will utilize the school community to promote sales and show a profit for their local group product. Tax ramifications of local, state and federal governments will also be highlighted. This group project may utilize talents of members of other departments of the school community to enhance their marketable product.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly

6136: Marketing/Advertising (C)

Marketing presents an overview of global marketing strategy starting with target market identification and ending with consumption. Using a variety of classroom activities, students participate in step-by-step methods of creating a marketing mix, pricing, designing appropriate advertising, creating new products and services. Case study analysis, computer programs, and videos enhance the content of this valuable course. A must for prospective college business majors.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly

6141: Personal Finance & Wealth Management

Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets utilizing checking and saving accounts, gain knowledge in finance, debt and credit management, and evaluate and understand insurance and taxes. This course gives students an overview of how to manage their individual financial circumstances. Topics covered will include basic financial recordkeeping, personal, auto, mortgage and home equity loans, investing fundamentals, property and casualty insurance, life insurance, health insurance, and tax planning. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by the experiences of finance professionals and stories of everyday people and the choices they make to manage their money.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly

6181: Sports and Entertainment Management

The American market place can be an economic jungle. You need to know the rules to survive and become successful. Sports, Entertainment, and Business Management is designed to help you develop the skills and the confidence to manage a business successfully. The everyday operations of athletic teams and stadium management, player contracts, agent representation, and athletic events require management skills. The production of movies, plays, and commercials involves strategies designed for each media. Making financial decisions and managing risks involve knowing how to use insurance, financial institutions, and the stock market to keep a business competitive. These management skills will enable your business to thrive even in the jungle!

Prerequisite (s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly

English Language Arts

1111: English I

English I is the first year of a four-year sequence in English required of all students for high school graduation. Based on the theme Self and Others and on a variety of thinking skills, English I presents a wide range of activities designed to extend mastery in literature and reading, writing, grammar, word study, discussion, and study/research skills. Literary works studied include To Kill a Mockingbird, Old Man and the Sea, The Glass Menagerie, Romeo and Juliet, and a wide selection of short stories, essays and poetry.

Prerequisite(s): None

Grade(s): 9

Credit: 1

Meets: 5 periods weekly

1531: Introduction to Public Speaking

This half-year elective course is designed to equip freshmen and sophomore students with the speech and communication tools that will be useful for their entire high school career and beyond. Students will improve their ability to speak effectively to their peers and larger audiences, find solutions for stage-fright or speech anxiety, explore their "voice," learn how to use technology to enrich their presentations, perform monologues and skits, enhance their interview skills, analyze and deliver speeches, and understand the interplay between verbal mechanics (vocal variety, volume, speed, enunciation, and pronunciation) and body language (poise, posture, body language, eye contact, facial expressions).

Prerequisite(s): None

Grade(s): 9, 10

Credit: 0.5

Meets: 5 periods weekly

1556: Dramatic Arts (C)

Students will acquire a general background of theatre in this interactive course. They will have the opportunity to study a variety of performance pieces ranging from classical to contemporary theatre. Students will explore the various aspects of the world of theatre, including topics such as the history of drama and theatre in Western civilization, acting, scenic design, stage lighting, costume, props, make-up, theatre organization and management, and theatrical critique. While 9th and 10th graders can take this course, only 11th and 12th grade students may take this course for college credit through C.W. Post Long Island University.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

1611: New Media Communications/Journalism

New Media Communications/Journalism will teach students the skills necessary for communication in the digital age. This course will use the production of the new online newspaper as the vehicle to teach students skills of traditional literacy as well as those of: information literacy, media literacy, videography, digital audio recording and editing, web design, and digital publication. Students will learn the skills of reporting, writing,

and editing including: interviewing skills, research methods, copy writing and editing, and news broadcasting. In addition to these real world skills, students will consider the ethics and business of producing news with particular emphasis on the issues presented when doing so on the Internet. The students in the course will be responsible for planning and producing the new JerEcho—a most important record of life at Jericho High School.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

1651: Sports Journalism

Many of Jericho High School's students are avid sports fans and dedicated athletes who love the game and want more opportunities to report on it. The Sports Journalism course will provide students with the training and experiences they need to become highly skilled sports writers, broadcasters, podcasters, announcers, social media coordinators, and bloggers/vloggers. Students in Sports Journalism will explore the fullness of the genre, and produce reports that cover all aspects of high school, collegiate, and professional sports. They will produce projects such as: athlete profiles, game analyses, season predictions and reviews, and event broadcasts. Students will have opportunities to announce at games, photograph and video record sporting events, regularly update and maintain sports-centered social media accounts, and create their own sports blogs/vlogs. Their work will be published on the *JerEcho* and be submitted to the *Syosset-Jericho Tribune*. Sports Journalism students will benefit from the real-world experiences covering Jericho High School sports, and our athletes and athletic program will benefit from all the coverage. The course is destined to be a win for all involved.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

1711: New Media Broadcasting

This course will be a study of the principles of writing news and information for Radio, TV, Podcasts, and Livestreaming. Basics of television news and broadcast style will be discussed and practiced. Emphasis is placed on the fundamentals of television studio production. This course provides a bridge between production and journalism. It emphasizes the importance of understanding technical processes as they apply to creative decisions. Students will learn how video cameras make pictures, how light and lighting instruments affect aesthetics, how edit systems function, how audio signals are created and how to plan and design facilities. Students gain practical experience in media news gathering, working as part of a team to produce news reports and complete newscasts.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

Family & Consumer Science

6511: Gourmet Basics

Students will explore basic cooking and baking skills, as well as the relationship between food preparation and nutrition. In the foods laboratory, students work in small groups to develop planning, preparing, and evaluation skills. Product packaging, labeling, and advertising, catering projects, and garnishing will also be included.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly

6521: International Foods

Students will learn about food and culture from around the world. Food, nutrition, culture and meal taking customs will be discussed. Students will work in the kitchen labs on a regular basis, preparing dishes and evaluating the outcome...by tasting the dishes! Students will research and present information about healthy eating and nutrition around the world.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly

Fine Arts

7111: Studio Art

This is a comprehensive foundation course that is suitable for all students with varying abilities who are interested in hands-on creative experiences. Students will have the opportunity to explore not only a variety of 2-dimensional materials but will also experiment with a variety of 3-dimensional materials. Examples are kiln fired clay, wire, wood, paper mache and plaster. With a focus on Elements of Art and the Principles of Design in accordance with the New York State Visual Art Standards, this full year course will satisfy a broad spectrum of student interest. This course fulfills the art/music requirement for graduation.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

7231: Photography I

A beginning course of photography which is highlighted by instruction in the use of a 35 mm. camera and the development and printing of photographs you have taken. The class will also include a variety of photo printing techniques and field trips to interesting photo opportunity sites on Long Island or in New York City. Each student will participate in activities which are centered around the computer and Photoshop software.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly (half year)

7241: Photography II

This course will provide the student with further exploration of new and advanced techniques in enlarging (double exposure photographs), color printing, and coloring black & white photos. They will experiment with toning, watercolors, pen & ink, along with special mounting techniques. The student will also be introduced to the digital camera and its unique capabilities with the computer and the software package Photoshop. This course will enable the student to broaden his/her art portfolio.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly (half year)

7451: Graphic Design

This course is designed to familiarize students with industry standard graphic design software including Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Adobe Lightroom, and more. Students will have the opportunity to create digital works of art and design ranging from digital illustration to basic logos, advertisements, and posters. Students will develop design skills by creating real-world inspired projects, participating in multiple in-class practice assignments as well as guided-learning lessons, and engaging in thoughtful and purposeful critiques. Students will also work to make meaningful artistic choices and be able to verbally explain their decisions by “pitching” their work. This class does not satisfy the Art graduation requirement.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

Mathematics

3111: Algebra I

This is the first course in the New York State Mathematics sequence. This course will assist students in developing skills and processes to be applied using a variety of techniques to successfully solve problems in a variety of settings. Problem situations may result in all types of linear equations in one variable, quadratic functions with integral coefficients and roots as well as absolute value and exponential functions. Students will solve problems that require right triangle trigonometry. Elementary probability theory will be used to determine the probability of independent, dependent and mutually exclusive events. The graphing calculator will be used as a tool to enhance instruction. The New York State Algebra I Regents exam will be administered in June.

Prerequisite(s): Math 8

Grade(s): 9

Credit: 1

Meets: 5 periods weekly

3211: Geometry

This is the second course in the New York State Mathematics sequence. Students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. Congruence and similarity of triangles will be established using appropriate theorems. Transformations including rotations, reflections, translations, and glide reflections and coordinate geometry will be used to establish and verify geometric relationships. A major emphasis of this course is to allow students to investigate geometric situations. It is intended that students will use the traditional tools of compass and straightedge as well as dynamic geometry software that models these tools. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences. The New York State Geometry Regents exam will be administered in June.

Prerequisite: Algebra I

Grade(s): 9, 10

Credit: 1

Meets: 5 periods weekly

3311: Algebra II

This is the third course in the New York State Mathematics sequence. Students will build on their work with linear, quadratic, and exponential functions, and extend their repertoire of functions to include polynomial, rational and radical functions. Students will hone their abilities to model situations and solve equations, including quadratic equations, exponential equations and logarithmic equations. The Algebra 2 Regents exam will be administered in June.

Prerequisite(s): Geometry

Grade(s): 9, 10, 11

Credit: 1

Meets: 5 periods weekly

3611: Exploratory Programming

This course is an introductory course to computer programming. The basic concepts of how a computer works will be taught. Students will create websites by writing HTML using notepad ++. Java applets will be embedded into HTML documents and executed using a web browser. Students will create interactive programs and games using Python, while learning about functions, loops, classes and a number of different aspects of coding. Finch robots will be used as a way to help students bring their codes and programs to life.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

3821A: Mathematics Research (Alternate day, full year course)

This course offers students a unique opportunity to investigate a mathematical topic of their choice. Topics may range from abstract mathematical concepts to applications that explore the relationship between mathematics and the real world. Students will write a research paper on their findings, which will include an original mathematics section. Throughout the writing process, students will learn how to conduct research, write about mathematical ideas, and collaborate effectively with peers. Students will also present their research at the Long Island Math Fair and may enter other contests.

Prerequisite: None

Grade: 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly, full year

Performing Arts

7511: Intro to Music Theory & Composition

Students will explore music through guided and student-proposed composition projects using notation and digital audio workstation programs and software. Additionally, students will study and explore perspectives of music and its role in society through readings, discussions, and projects. Students may be asked to be peer mentors and / or discussion leaders. This course may be taken in grades 9, 10, 11, or 12.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

7611: Orchestra 9-10

As members of the orchestra students who play string instruments study and perform mature orchestra literature. They participate in concerts, assemblies, and festivals. This sequential curriculum provides students with opportunities to participate in performance experiences with school music organizations.

Prerequisite(s): Sufficient previous training

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

7711: Concert Band

Members of the concert band perform music of medium difficulty. They perform at concerts, football games, and pep rallies. This sequential curriculum provides students with opportunities to participate in performance experiences with school music organizations.

Prerequisite(s): Some instrumental training

Grade(s): 9, 10

Credit: 1

Meets: 5 periods weekly

7811: Chorus

The chorus provides a vocal experience for students. They participate in concerts, assemblies, and musicals learning vocal technique to sing music of varying styles, languages, and difficulty. This sequential curriculum provides students with opportunities to participate in performance experiences with school music organizations.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

7731: Jazz Ensemble

In this weekly, full-year course, students become acquainted with the elements of Jazz and its production. They study improvisation and perform suitable literature. The jazz band performs at various school functions.

Prerequisite(s): Audition and membership in a large music ensemble.

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly, outside of the regular school day

9411: Dance I

This course explores the basic techniques of various styles of dance. Throughout the year we will be studying dance using creative expression and technical achievement. We will be exploring jazz, modern/contemporary, hip hop, and composition through various exercises and floor work. The movement portion of the class consists of a compilation of warm ups, center floor exercises including balancing skills, body alignment, and stretches, as well as across the floor exercises. Students learn the beginning skills of choreography through guided group projects. Students will work with partners and start providing dance feedback using dance language. ***Course fulfills Art/Music requirement for graduation. Students seeking to take Dance I as their PE course must enroll in the half credit, alternate day, version of the course listed in the Physical Education section of the course catalog (9411A).**

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1.0

Meets: 5 periods weekly

Physical Education

9111A: Team Sports and Fitness

Physical Education is based upon the acquisition of knowledge and skills as a foundation for engaging in physical activity. However, the mere acquisition of knowledge and skills is not enough. The mission of this physical education course would be to enable all students to actively participate in sports that include teamwork. While, all students work to sustain regular, lifelong physical activity as a foundation for a healthy, productive, and fulfilling life. Our vision is to provide all students with a sequential program based on physical activities undertaken in an active, caring, supportive, meaningful and non-threatening atmosphere in which every student is challenged and successful while learning how to work as a team for the common goal. **This course may be taken for Varsity release for students in grades 10-12.**

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly

Activities may include:

Team Sports	Fitness Concepts	Cooperative Games
Basketball	Aerobics	Project Adventure
Diamond Sports	Cardio Training	
Flag Football	CrossFit	
Pillow Polo	Weight Training	
Ultimate Frisbee	Yoga	
Soccer		
Team Handball		
Volleyball		

9121A: Individual Sports and Fitness

Physical Education is based upon the acquisition of knowledge and skills as a foundation for engaging in physical activity. However, the mere acquisition of knowledge and skills is not enough. The mission of physical education is to enable all students to sustain regular, lifelong physical activity as a foundation for a healthy, productive, and fulfilling life. Our vision is to provide all students with a sequential program based on physical activities undertaken in an active, caring, supportive, meaningful and non-threatening atmosphere in which every student is challenged and successful. **This course may be taken for Varsity release for students in grades 10-12.**

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly

Activities that may be offered:

Racquet/Net Sports	Fitness Concepts	Individual Sports
Badminton	Aerobics	Disc Golf
Table Tennis	Cardio Training	Golf
Tennis	Cross Fit	Outdoor Games
Pickleball	Yoga	
Volleyball	Weight Training	

9231A: Self Defense/Judo

The students will learn the basics of self defense with an emphasis on Judo. Traditional as well as the Olympic competition styles of Judo will be emphasized. The students will learn the history of Judo as well as other martial arts and how they relate to self-defense. The students will be able to attain the first rank (yellow belt) in Judo by learning all essential techniques. If a student chooses to continue with the program, they will earn another rank each of the following years based on completion of Kata test at the end of each year.. A second year student will obtain the rank of Orange Belt. A third year student will obtain the rank Green Belt. A fourth year student will obtain the rank of Blue Belt. There will be a fitness component included that directly relates to Judo. Upon completion of the yellow belt a student may take the course the following school year to achieve the next belt level. Students receive P.E. credit.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly

9240A: Fit Body, Healthy Mind 101

This dynamic fitness class is designed to target female students, combining the principles of core strengthening and enduring principles of Pilates with the high-intensity interval training (HIIT) format. This class not only focuses on building strength and endurance but also emphasizes injury prevention through proper technique, body awareness, stretching to promote flexibility, and targeted conditioning while fostering a supportive community environment to promote a lifelong positive outlook for fitness. **This course may be taken for Varsity release for students in grades 10-12.**

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly

9241A: Strength and Conditioning

A Physical Education course geared towards covering strength and cardio muscular endurance training. The class will also have lessons geared to physical fitness and health as a lifetime sport. The students will incorporate specific types of training such as CrossFit, Yoga, Free Weight and Machine assisted workouts. Different types of Cardio endurance workouts such as running, swimming and biking (if possible). Students will gain knowledge of muscle function, physiology, and human movement, while understanding how physical activity enhances health-related physical fitness. They will look at the relationship between nutrition and performance. Students will assess their health-related fitness, learn specific activities to develop or maintain fitness, and design a personal exercise program. **This course may be taken for Varsity release for students in grades 10-12.**

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly

9261A: Yoga

Yoga is all about harmonizing the body with the mind and breath through the means of various breathing exercises, yoga poses and mindfulness practices. Some of the benefits of practicing yoga on a regular basis include the following: increase flexibility, fostering emotional awareness, stress reduction, increased focus and concentration, supports healthy sleep hygiene and overall physical wellness. Additional benefits include introducing students to self-reflection, the practice of kindness and self-compassion, and continuing growth in their self-awareness. The students will learn to observe their needs and their environment, and respect their bodies for the long-term.

The techniques that will be developed throughout the year are as follows:

Breathe: The breath is one of the most powerful tools for self-regulation. Breath activities help students learn to reduce anxiety, stabilize energy, and create a sense of safety and peace in the body.

Move: The poses help students maintain a state of alert engagement, and allows for them to feel strong and energetic.

Focus: Lead through a mindfulness practice, children will learn step-by-step, how to apply their focus and foster a sense of self-awareness.

Relax: This allows the student to learn the tools necessary for relaxation and restoration.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly

9281A: Aquatic Training 101

This course will offer a variety of challenging aquatic activities for swimmers of all abilities. The program will be designed with a “menu” of options to provide classes that are personalized. Instructional training may include refining basic swimming strokes & skills, aquatic games such as water polo, preparation for more advanced swimming courses such as Water Safety Instructor or Lifeguarding, improving competitive swimming & diving techniques and preparation for Event Training such as short & long course endurance swim races, triathlon competitions, and military swim requirements. **This course may be taken for Varsity release for students in grades 10-12.**

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly

9411A: Dance I

This course explores the basic techniques of various styles of dance. Throughout the year we will be studying dance using creative expression and technical achievement. We will be exploring jazz, modern/contemporary, hip hop, and composition through various exercises and floor work. The movement portion of the class consists of a compilation of warm ups, center floor exercises including balancing skills, body alignment, and stretches, as well as across the floor exercises. Students learn the beginning skills of choreography through guided group projects. Students will work with partners and start providing dance feedback using dance language. ***Dance I (9411A) can be taken as a student’s PE course, but does not count toward meeting the Art/Music requirement for graduation. Students seeking to satisfy the Art/Music requirement by taking Dance I must enroll in the full credit version of the course listed in the Performing Arts section of the course catalog (9411).**

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 2.5 periods weekly

Science

4111: Earth & Space Sciences (formerly PS:Earth Science)

This course marks the beginning of the Regents Science sequence and will prepare students for the physical setting-earth science assessment. In addition to the regular daily class period, students meet for an additional laboratory period every other day. Regents Earth Science is an interdisciplinary course that builds on the background in science acquired in the earlier grades. Matter, energy, space and time are put into perspective through an inquiry-centered study of the student's environment on Earth. This framework attempts to relate all areas of science. Biology, chemistry, mathematics and physics are basic to understanding the processes that affect our planet and the universe. Astronomy, geology, meteorology and oceanography are strongly interwoven throughout the course. Laboratory activities form the core of this curriculum. Successful completion of laboratory assignments is required for admission to the Regents Examination. All students take the Physical Setting/Earth Science Regents exam at the conclusion of course.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 7.5 periods weekly

4211: Life Science/Biology (formerly Living Environment)

This course prepares students for the New York State Living Environment assessment. Students develop positive scientific attitudes, utilize inquiry skills, and develop an understanding of the basic concepts of modern biological science. Molecular genetics, ecological relationships and environmental issues are emphasized to prepare students to better understand the latest trends in the life and medical sciences. Laboratory work is a major part of the course. Successful completion of laboratory assignments is required for admission to the Regents examination. All students take the Living Environment Regents exam at the end of the course.

Prerequisite(s): Earth Science

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 7.5 periods weekly

4311: Physical Science Chemistry

In this course, students learn to observe and describe phenomena, organize data, generalize relationships, and predict how matter and energy behave. They build a modern foundation in essential chemistry concepts. Key topics include structure and properties of matter, chemical reactions and energy changes, kinetics and equilibrium, behavior of solutions, acids and bases, redox and electrochemistry, the mathematics of chemistry, nuclear processes, gases and their properties, and applications of chemical principles. Successful completion of 1,200 minutes of experimentation, including the New York State Chemistry Investigations is required for admission to the Regents Examination. All students conclude the course by taking the Physical Science: Chemistry Regents Examination.

Prerequisite(s): Algebra I and Life Science: Biology

Grades: 10, 11, 12

Credit: 1

Meets: 7.5 periods weekly

4641: Science in Action: Exploring Today's Breakthroughs and Challenges

The latest scientific discoveries will affect your daily life. "Science in Action," will dive into today's hottest topics in science, from AI and genetic engineering to climate change and space exploration. No need to be a science whiz – this course will focus on discussing cool ideas, debating ethical issues, and understanding how science shapes our world. You'll explore the history behind groundbreaking inventions, debate the pros and cons of emerging technologies, and even try your hand at predicting future scientific trends. Through engaging discussions, hands-on activities, and multimedia presentations, you'll gain a new perspective on the role of science in society. Whether you're curious about the latest medical breakthroughs or fascinated by the potential of renewable energy, this course will open your eyes to the exciting and sometimes controversial world of modern science. Join us to boost your scientific literacy, critical thinking skills, and understanding of the world around you!

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly, half year

4711: The Science & Business of Agriculture

This is an interdisciplinary course that explores science, business, and family and consumer science curriculum. It is a hands-on, project-based course focusing on topics including gardening, farming, botany, hospitality management, and food science. The course seeks to analyze these topics all the while considering the impacts of technology, culture, and externalities. Students will develop understandings of natural and agricultural sciences, evaluate impacts of agricultural practices on output and the environment, and create outdoor gardens conducive to plant growth. This course will review and evaluate the food system and industries surrounding it, agriculture business systems, and food entrepreneurship while considering environmental, societal, and corporate governance. Students will have the opportunity to research the cultural heritage and relevance of food and the role it plays in communities. By leveraging an interdisciplinary co-teaching model, the course will highlight the intersections of these three content areas while engaging students in authentic learning experiences.

Prerequisite(s): None

Grades: 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

2811: Introduction to Research 9

Introduction to Research seeks to accomplish two objectives. One objective is to provide 9th graders with a sense of what it means to participate in the high school research program that begins in the 10th grade in either science or social science. The second objective is to teach 9th graders the basic skills in research and presentation, both written and oral, which are fundamental to academic success in high school, college and beyond. Those skills include: 1. How to evaluate the validity of websites. 2. How to utilize the High School Library's electronic databases. 3. How to build a bibliography. 4. How to write a science or social science research paper. 5. How to make an effective oral presentation. 6. How to use a spreadsheet program to create charts and graphs.

Prerequisite(s): None

Grade(s): 9

Credit: .5

Meets: 5 periods weekly

Social Studies

2111: Global History I

Grade 9 begins with the Paleolithic Era and the development of the first civilizations, continues with an examination of classical societies, and traces the expansion of trade networks and their global impact and continues to a period of Global Interactions from approximately 1400 to 1750. The course emphasizes the key themes of interactions over time, shifts in political power, and the role of belief systems.

Co-requisite: None

Grade(s): 9

Credit: 1

Meets: 5 periods weekly

2521: Tournament Debate I

Students learn philosophy, rhetoric and study and practice debating strategies and techniques. Current events and controversial issues are analyzed and debated. Novice debaters will hone skills, such as critical listening, research and public speaking. We will discuss current events and the historical components necessary to participate in Lincoln-Douglas and Public Forum Debates. Students are encouraged to debate with students from other schools at the Long Island Forensic Association's competitions. Students also have the opportunity to participate in local and state debate competitions.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: 5 periods weekly

2811: Introduction to Research 9

Introduction to Research seeks to accomplish two objectives. One objective is to provide 9th graders with a sense of what it means to participate in the high school research program that begins in the 10th grade in either science or social science. The second objective is to teach 9th graders the basic skills in research and presentation, both written and oral, which are fundamental to academic success in high school, college and beyond. Those skills include: 1. How to evaluate the validity of websites. 2. How to utilize the High School Library's electronic databases. 3. How to build a bibliography. 4. How to write a science or social science research paper. 5. How to make an effective oral presentation. 6. How to use a spreadsheet program to create charts and graphs.

Prerequisite(s): None

Grade(s): 9

Credit: 0.5

Meets: 5 periods weekly

Technology

4911: Design & Drawing for Production

Design and Drawing for Production encourages visual problem-solving using a common graphic language to describe forms in the human-made environment. Students are provided with opportunities to analyze, creatively design, and critically evaluate to develop problem solving and decision-making skills. Students will also be able to acquire skills in technical drawing, Computer Aided Drawing, and design and modeling techniques. Students will then use these modeling techniques and the use of contemporary tools to solve various problems. Design and Drawing for Production is an approved course to meet the one unit of art/music requirement for graduation for all students.

Prerequisite(s): None

Grade(s): 9, 10, 11

Credit: 1

Meets: 5 periods weekly

4916: Introduction to Engineering Design (IED) (C) - Project Lead the Way 1

Introduction to Engineering Design This is an engineering foundation course that teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using the sophisticated solid modeling computer software program Autodesk Inventor. This course is the first part of a Project Lead the Way sequence in the high school. Project Lead the Way is a nationwide multi-year program which, when combined with traditional secondary school mathematics and science courses, introduces students to the scope, rigor and discipline of engineering prior to entering college. This course may be taken for college credit through the Rochester Institute of Technology. This course can be used to meet the one unit of art/music requirement for graduation.

Prerequisite(s): None

Grade(s): 9, 10, 11

Credit: 1

Meets: 5 periods weekly

****NEW COURSE****

4956: 3D Unity Coding & Design (C)

Students will learn to code in C#, design immersive environments, and develop playable experiences that blend creativity with technical skill. Through hands-on projects, participants gain the tools to bring their ideas to life while building a strong foundation in modern 3D design and programming. Students must have a commensurate understanding of coding prior to taking this course. *College credit available pending formal university approval.

Prerequisite(s): Exploratory Programming or Departmental Approval

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

4961: Introduction to Film and Video Production I

Lights, Camera, Action! This course will provide students with a foundational tool kit in the basics of video capture and editing. Students will develop skills in photography, cinematography, and will learn to edit video and audio with Final Cut Pro (an industry standard software). Additional topics covered include newscast, green screen, lighting, camera angles, and special effects. *Prerequisite(s): None*

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: Everyday for 1 period for 1 semester

4971: Introduction to Film and Video Production II

Do you like movies, stories, and using your imagination? Then Let's Make A Video! Videos are one of the most exciting ways to share information in the 21st century. Learn how to produce and share videos through a variety of genres including animation, documentary, experimental, narrative, interview, and newscast. You are bound only by your own imagination.

Prerequisite(s): Introduction to Film and Video Production I

Grade(s): 9, 10, 11, 12

Credit: 0.5

Meets: Everyday for 1 period for 1 semester

World Language

5111: Spanish I

Students begin to develop proficiency in listening and speaking the Spanish language. They learn proper pronunciation and engage in simple conversations. Structures are learned and gradually, with the use of authentic materials, the students develop basic reading and writing skills. They begin to explore the culture and civilization of the Spanish-speaking world.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

5121: Spanish II

The students continue to develop their proficiency in the four basic skills of listening, speaking, reading, and writing. They expand their vocabulary, improve their pronunciation, and learn more complex grammatical structures in order to communicate in a variety of real-life situations. The students further develop their knowledge of the culture and civilization of the Spanish-speaking world.

Prerequisite(s): Spanish I

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

5211: Chinese Language and Culture I

As the Chinese language is getting more important, don't miss the opportunity to get yourself prepared for the future. This course is intended to build students' basic daily communicative skills in Mandarin Chinese including conversation, reading and writing. Pinyin, a Romanization of Chinese, will be taught as a tool for understanding the dialogs. In addition, drills on sounds and tones, vocabulary, and sentence patterns in meaningful contexts will be used in order for the students to communicate appropriately and accurately in authentic contexts. Language instruction emphasizes cooperative learning, games and performances. Students will explore the Chinese culture through films, projects and field trips.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

5221: Chinese Language and Culture II

In this course, students will gain confidence in using Chinese for daily-life activities in a target language environment. Students will expand from their base in first year Chinese (or its equivalent) to continue to develop their four skills of understanding, speaking, reading and writing in Modern Chinese. New topics will be introduced in this course with increasing sophistication in terms of usage and style. Language instruction emphasizes practical interpersonal communicative activities and presentations. Discussions on authentic cultural contexts will be conducted through films and field trips.

Prerequisite(s): Chinese I

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

5311: French I

Students develop proficiency in listening and speaking the French language. They learn proper pronunciation and engage in simple conversations. There is extensive emphasis on vocabulary acquisition. Grammatical structures are learned and gradually, with the use of authentic materials, students develop basic reading and writing skills. Focus is also on the culture and contributions of France.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

5321: French II

The students continue to develop their proficiency in the four basic skills of listening, speaking, reading, and writing. They expand their vocabulary, improve their pronunciation, and learn more complex grammatical structures in order to communicate in a variety of real-life-situations. The students further develop their knowledge of French culture and civilization.

Prerequisite(s): French I

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

5411: Italian Level I

Students begin to develop proficiency in listening and speaking the Italian language. They learn proper pronunciation and engage in simple conversations. There is extensive emphasis on vocabulary acquisition. Simple grammatical structures are learned and gradually, with the use of authentic materials, students develop basic reading and writing skills. They begin to explore Italy's culture and its contributions to our civilization.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

5421: Italian Level II

The students continue to develop their proficiency in the four basic skills of listening, speaking, reading, and writing. They expand their vocabulary, improve their pronunciation, and learn more complex grammatical structures in order to communicate in a variety of real-life situations. The students further develop their knowledge of Italian culture and civilization.

Prerequisite(s): Italian I

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly

5510: Intro to Latin

Students study the fundamental structures of classical Latin through extensive readings in the language. Emphasis is on the acquisition of a large active and passive vocabulary. Through intensive study of word derivation and word building, the students expand their English vocabulary and their understanding of the English language. They begin to explore the historical and cultural contributions of the Greco-Roman civilization to our Western civilization.

Prerequisite(s): None

Grade(s): 9, 10, 11, 12

Credit: 1

Meets: 5 periods weekly