MIDDLEBURGH Junior-Senior High School

Course Catalog 2025-2026

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Disclaimer

This catalog serves as a complete listing of all classes and electives offered by the Middleburgh Jr.-Sr. High School. Depending upon enrollment, interest and budgeting conditions not all courses will be offered during a given school year.

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Graduation Requirements:

The following information is the diploma and credential requirements currently in effect. Websites are available that offer specific regulatory requirements and more detailed information regarding the requirements for each diploma or credential. http://www.nysed.gov/curriculum-instruction/general-education-and-diploma-requirements

<u>Diploma Type: Regents (Available to all students)</u>

- Credit: 22 units of credit distributed as follows: 4 ELA, 4 Social Studies, 3 Science, 3
 Mathematics, ½ Health, 1 Arts, 1 Language other than English (LOTE), 2 Physical
 Education, 3 ½ electives
- Assessment: 5 required Regents exams(1) with a score of 65 or better as follows: 1
 Math, 1 Science, 1 Social Studies, ELA and 1 additional Math, Science or Social Studies

<u>Diploma Type: Regents with Advanced Designation (Available to all students)</u>

- Credit: 22 units of credit distributed as follows: 4 ELA, 4 Social Studies, 3 Science, 3
 Mathematics, ½ Health, 1 Arts, 1 Language other than English (LOTE), 2 Physical
 Education, 3 ½ electives. In addition, a student must earn an additional 2 units of credit in
 LOTE or a 5 unit sequence in the Arts or CTE. These credits can be included in the 22
 required credits.
- Assessment: Students may meet the assessment requirements in order to earn a Regents Diploma with Advanced Designation by passing 3 Math, 2 Science, 2 Social Studies, 1 ELA and Spanish II final exam.

<u>Diploma Type: Local (Available to students with disabilities with an individualized education program or Section 504 Accommodation Plan)</u>

- Credit: 22 units of credit distributed as follows: 4 ELA, 4 Social Studies, 3 Science, 3 Mathematics, ½ Health, 1 Arts, 1 Language other than English (LOTE), 2 Physical Education, 3 ½ electives
- Assessment: Low Pass Safety Net Option: 5 required Regents exams with a score of 55 or better as follows: 1 Math, 1 Science, 1 Social Studies, ELA and 1 additional Math, Science or Social Studies



AGRICULTURE

Course Title: 7th Grade Agriculture

Grades: 7 Credits:

Prerequisite: None

Weight for Ranking: N/A

Description: In this class, students will explore the exciting world of agriculture and learn about different careers through hands-on activities. They will grow plants, make ice cream, and try out new farming technologies. Students will also discover how agriculture affects their daily lives and the environment while exploring jobs like farming, food science, and horticulture. This class is perfect for anyone who loves nature, science, and working on real-world projects!

Course Title: 8th Grade Agriculture

Grades: 8 Credits:

Prerequisite: *None*

Weight for Ranking: N/A

Description: In this class, students will learn more about agriculture by studying plants, animals, and farming technology. They will work on hands-on projects like growing a garden and learning how food is produced. Students will also explore how farming helps with big problems like feeding the world and protecting the environment. This class is great for students who enjoy science, working on projects, and learning about important jobs in agriculture!

Course Title: Animal Science

Grades: 9-12

Credits: 1 credit, year long course

Prerequisite: *None*

Weight for Ranking: 1.00

Odd Year

Description: This course provides an in-depth look at animal production, management, and care. In the first semester, Animal Production & Management, students will study animals such as beef cattle, pigs, goats, sheep, and chickens, focusing on genetics, reproduction, selection, and behavior. Hands-on activities include hatching chicks, making ice cream, cooking burgers, and more.

In the second semester, Companion Animal Care, students will explore the small animal industry. They will learn about various breeds and gain skills in proper care, including feeding, handling, grooming, breeding, and identifying common diseases. Students will have opportunities to work directly with small animals and develop skills for animal-related careers such as breeder, dog walker, trainer, veterinarian, and more.

Upon completion, students will earn certificates in Animal Science and Small Companion Animal Science, equipping them with valuable knowledge and practical experience for future endeavors.

Course Title: Biomedical & Veterinary Science I

Grades: 9-12

Credits: 1 credit, year long course

Prerequisite: *None*

Weight for Ranking: 1.00

Odd Year

Description: This course explores the anatomy and physiology of both humans and animals, with a focus on medical and veterinary applications. Students will gain hands-on experience through lab activities, dissections, projects, and clinical case studies, where they will diagnose and solve real-world problems. Skills learned in this course prepare students for careers in medicine, veterinary science, forensics, physical therapy, biomedical engineering, and more. This class is perfect for those interested in understanding how the body works and pursuing a future in healthcare or animal science. **Requirements this course fulfills:** This course will provide students with one credit towards the

Course Title: *Dairy Science*

Grades: 9-12

Credits: 0.5 credit, ½ year course

graduation requirement in science.

Prerequisite: *None*

Weight for Ranking: 1.00

Even Years

Description: This course introduces students to the fundamentals of dairy science, preparing them for careers in the dairy industry. Topics include cow anatomy, cattle nutrition, health care, milking techniques, and showing and judging dairy cows. Students will also engage in hands-on activities such as milk grading, cheese and ice cream making, and exploring current trends and innovations in the dairy industry. Career connections include Dairy Handler, Dairy Nutritionist, Reproductive Specialist, Milk Inspector, Dairy Farmer, Veterinarian, and more—perfect for anyone passionate about dairy and agriculture!

Course Title: *Equine Science*

Grades: 9-12

Credits: 0.5 credit, ½ year course

Prerequisite: *None*

Weight for Ranking: 1.00

Even Years

Description: This course provides a foundational understanding of equine science, preparing students for careers in the horse industry. Topics include horse anatomy, feeding and nutrition, health care, training techniques, and showing horses. Students will gain hands-on experience in various aspects of horse care and management. Career connections include Barn Manager, Trainer, Veterinarian, Groom, Farrier, Breeder, Sales Broker, Show Manager, Equine Therapist, and more—ideal for anyone passionate about horses and the equine industry!

Students will earn an Equine Science certificate.

Course Title: Plant Science

Grades: 9-12

Credits: 1 credit, year long course

Prerequisite: *None*

Weight for Ranking: 1.00

Even Years

Description: This hands-on course covers the science of growing, maintaining, and producing plants. The class is divided into four exciting parts: Greenhouse Management, Soil Science, Plant Science, and Floriculture. Students will work with mini greenhouses, create edible gardens, start seedlings, design flower arrangements, and more. They'll learn about soil health, plant growth, and flower design while gaining real-world experience. This course is perfect for anyone interested in plants and nature. Career connections include Soil Scientist, Florist, Botanist, Greenhouse Manager, Crop Advisor, Biotechnologist, and Landscaper.

Requirements this course fulfills: This course will provide students with one credit towards the graduation requirement in science.

Students will earn a Plant and Soil Science and Floriculture and Greenhouse Management certificates.

Course Title: Introduction to Agriculture

Grades: 9-12

Credits: 1 credit, full year course

Prerequisite: None

Weight for Ranking: 1.00

Odd Years

Description: This course introduces students to the world of agriculture, covering a wide range of topics that shape our food, environment, and economy. Students will explore the basics of plant and animal science, farming techniques, and sustainable practices. They'll learn about soil health, crop production, animal care, and the importance of agriculture in our daily lives. Through hands-on activities, projects, and field trips, students will gain practical skills and discover various careers in the agricultural industry. This course is perfect for students interested in exploring the many opportunities that agriculture has to offer.

Course Title: Leadership and Supervised Agricultural Experiences

Grades: 9-12

Credits: 1 credit, full year

Prerequisite: None

Weight for Ranking: 1.00

Odd Years

Description: In this course, students will develop important leadership skills while exploring agriculture through real-world experiences. They will learn how to set goals, stay motivated, and work with others, while also mastering key skills like public speaking, parliamentary procedure, and job readiness. Students will build a strong resume, practice good work ethics, and keep organized records. As part of their learning, students will participate in a supervised agricultural experience (SAE), where they apply what they've learned in a real-life work setting. This course helps prepare students for leadership roles in agriculture and any career path they choose.

This course is needed to complete the CTE Agricultural Graduation Endorsement

Course Title: Biomedical & Veterinary Science II

Grades: 10-12

Credits: 1 credit, year long course

Prerequisite: Biomedical & Veterinary Science I

Weight for Ranking: 1.00

Even Years

Description: This course serves as an introduction to veterinary sciences. Students will become familiar with the various aspects of veterinary medicine such as clinic practice, disease, medications, careers, and health records. Students will learn skills that will enable them to be employed as a veterinary assistant or go on to technician or medical school. Veterinary terminology and basic veterinary office procedures are covered. Great for future medics, nurses, doctors, technicians, and anyone interested in the medical field. *Biomedical & Vet Sci I is a prerequisite.

Students will earn Veterinary Assistant 1 and Veterinary Assistant 2 certificates

Course Title: Wildlife, Fisheries & Ecology Management

Grades: 9-12

Credits: 1 credit, year long course

Prerequisite: *None*

Weight for Ranking: 1.00

Even Years

Description: In Wildlife, Fisheries, and Ecology Management students will examine the management of game and nongame wildlife species, fish and aquacrops and their ecological needs as related to current agricultural practices. Students in this course will learn about Wildlife Identification, Regulations for Management, Maps & Surveys and much more. Students will gain hands-on experiences by caring for trout and tanks, doing environmental surveys, raising quail, and more. Career Connections: Marine Biologist, Ecologist, Aquaculturist, Environmental Scientist, Ecological Chemist, Engineer, Zoologist, Geologist

Students will earn Aquaculture and Natural Resource Management certifications.

ART

Course Title: Art 7

Grades: 7

Credits: N/A - 10 week class

Prerequisite: *None*

Weight for Ranking: N/A

Description: Seventh grade students in general art examine and explore a variety of art media, techniques, technologies, and processes in self-directed art production. Students demonstrate personal productivity skills as they practice and adapt usage of the elements of art and principles of design through individual and collaborative efforts. Students' artwork shows evidence of 21st century skills of critical thinking, problem-solving, and original communication of intended meaning. They learn to understand aesthetic qualities of symbols, ideas, and personal values as subject matter of artwork. Students demonstrate a global awareness of art history and identify and analyze reasons for creating works of art. They incorporate steps of art criticism and visual literacy skills through art appreciation activities and the creation of oral, written or multimedia presentations.

Requirements this course fulfills: NYSED Jr. High course requirement

Course Title: Art 8

Grade: 8

Credits: N/A - 10 week class

Prerequisite: *None*

Weight for Ranking: N/A

Description: Eighth grade students demonstrate 21st century learning and higher order thinking skills as they refine the use of art media, techniques, technology and processes combining the elements of art and principles of design in creating works of art. Students choose content related to their own lives and learn to work independently and in teams. They analyze works of art and place them in their global historical and cultural context. They apply processes of art criticism and visual literacy while viewing and writing about personal works of art and the art of others. They gain an awareness of careers in visual art and gain an appreciation of art as a source of lifelong learning.

Requirements this course fulfills: NYSED Jr. High course requirement

Course Title: Studio in Art I

Grades: 9-12

Credits: 1 credit – full-year class

Prerequisite: None

Weight for Ranking: 1.00

Description: Art I is a foundation art course designed to reinforce and build on 21st century knowledge and skills. Students produce two-dimensional and three-dimensional artworks using a variety of media, techniques, technology, and processes. They relate art skills and strategies to other disciplines, various cultures, major art movements, and historical periods. They learn and practice responsible workplace skills and review career options which encompass math, literacy and life skills.

Requirements this course fulfills: This course fulfills the state fine arts requirement for graduation.

Course Title: Art 2 (2-Dimensional Art)

Grades: 10-12

Credits: *1 credit – full-year course*

Prerequisite: Successful completion of Studio Art 1

Weight for Ranking: 1.03

Description: Art 2 is a one credit full-year course designed to provide a more in-depth exploration into selected processes, materials and principles of two-dimensional art. Students manipulate the elements and principles of art to express their ideas through experiences in drawing, painting, printmaking and photography. Students explore various aspects of the arts in the context of global cultures and historical parameters as they examine connections between other disciplines, and technologies.

Requirements this course fulfills: This course can be used as an elective towards graduation requirements or as part of a five-unit sequence in fine arts.

Course Title: Art 3S (Sculpture)

Grades: 10-12

This course will be offered every other year opposite Art 3C

Credits: 1 credit - full-year course

Prerequisite: Successful completion of Studio Art 1

Weight for Ranking: 1.03

Description:

Art 3S is a one credit full-year course designed to provide in-depth exploration into selected techniques, materials and principles of the three-dimensional form. Students express their ideas through the creation of sculptures while exploring a variety of media that may include clay, plaster, metal, wood, glass and mixed media. Skills in learning and thinking, literacy and life skills for the 21st century are developed in the context of global cultures and historical parameters.

Requirements this course fulfills: This course can be used as an elective towards graduation requirements or as part of a five-unit sequence in fine arts.

Course Title: Art 3C (Ceramics)

Grades: 10-12

Offered every other year opposite Art 3S

Credits: 1 credit - full-year course

Prerequisite: Successful completion of Studio Art 1

Weight for Ranking: 1.03

Description: Art 3C is a one credit full-year course designed to provide an introductory exploration into the aesthetics and techniques of using clay as a medium of artistic expression. Students will learn various hand-building techniques, ceramic decoration processes and will be introduced to wheel throwing techniques. In addition, students will acquire a better understanding of the nature of clay, glazing and the use of kilns and the firing process. Students gain a better understanding of ceramic arts in the context of global cultures and historical parameters as they examine connections between other disciplines, and technologies.

Requirements this course fulfills: This course can be used as an elective towards graduation requirements or as part of a five-unit sequence in fine arts.

Course Title: Ceramics II

Grades: 11-12

Offered every other year, the same years as Art 3C

Credits: 1 credit - full-year course

Prerequisite: Successful completion of Art 3C (Ceramics)

Weight for Ranking: 1.03

Description: This ceramics course is designed for students who want a more in-depth experience working with clay. Students will refine their hand building techniques as well as learning to use the potter's wheel. Students will explore higher level creativity, craftsmanship, and design skills and acquire a better understanding of the nature of clay, glazes, and ceramic equipment.

Requirements this course fulfills: This course can be used as an elective towards graduation requirements or as part of a five-unit sequence in fine arts.

Course Title: Art 5 Grades: 11-12

Credits: 1 credit - full-year course

Prerequisite: Successful completion of Studio Art I, Art II, & one Art III

Weight for Ranking: 1.03

Description: Art 5 is a course designed for students with focus and personal motivation to develop their art portfolio. Project assignments allow students to work in a variety of artistic media in order to develop their own vision as an artist. Students will create a body of work that reflects a range of problem-solving, creative expression, and technical ability. Students will research, journal, participate in class critiques, and have artistic dialogues that will serve to inspire them to develop a high level of personal creative expression, aesthetic judgment, and technical skill in visual art.

Requirements this course fulfills: This course can be used as an elective towards graduation requirements or as part of a five-unit sequence in fine arts.

BUSINESS DEPARTMENT

Course Title: Introduction to Business

Grades: 9-12

This course will be offered every year.

Credits: 0.5 *credit* $-\frac{1}{2}$ *year class.*

Prerequisite: *None*Weight for Ranking: 1.0

Description:

This high school introductory course will build off of the 10-week business portion of 8th grade CTE. In this class, students will explore different components of the business curriculum offered at the high school. Through a few different approaches including project-based learning, students will get a taste of Marketing, Entrepreneurship, Business Law, Accounting and more as time allows. The exposure will give them a better understanding of what these other classes involve and if they are something they may want to take while in high school and beyond. This class will also introduce students to the Future Business Leaders of America Organization. Students will complete some simulations in class that represent actual competitions that take place at the regional and state level conferences. They will learn what this national organization is about, the benefits becoming a member in high school can provide for them in terms of their future and finally, how they can get involved if they choose. Students will have the option to join the club here at school if they are interested, but it is not a requirement. Lastly, students in Intro to Business will have the opportunity to help run our school store, The Armory. They will gain firsthand experience in customer service, along with running a cash register keeping the shelves stocked.

Requirements this course fulfills: This course can be used for an elective towards the graduation requirement.

Course Title: Business Law

Grades: 9-12

Credits: 0.5 credit **Prerequisite:** None

Weight for Ranking: 1.00

Description: Law relates to life, every day and everywhere, whether you are the CEO of a large company or a high school student applying for a first job. This course is designed to introduce students to the world of law and government. Students will learn why laws are created, how they are created and what happens when they are not followed. Studying law is about learning concepts and rules and also understanding how the rules apply in real life. While learning the different topics, students will be asked to analyze facts and situations in order to make ethical decisions. We will also take a field trip during the semester to Schoharie County Courthouse to meet the District Attorney, the

Court Judge and others that work in the courthouse. They will tell us about their different roles and we will also get to spend some time watching court proceedings in action. Because of the amount of independent work and the material being covered, this course is best suited for juniors and seniors.

Requirements this course fulfills: This course can be used to fulfill the ½ year PIG requirement for graduation, or as an elective towards the graduation requirements.

Course Title: CIHS Intro to Agricultural Business (AGBU 101 - SUNY Cobleskill)

Grades: 9-12

Credits: 1 credit – full-year class (3 college credits)

Prerequisite: *None*

Weight for Ranking: 1.05

Description: This course is a study of the nature and functions of the agricultural business industry. The component parts of the industry will be identified and studied in terms of size, purpose, functions performed, and interrelationships with other components. We use the same book as the college-Agribusiness Fundamentals and Applications, Ricketts and Ricketts, Second Edition. Below is a list of the topics covered:

- Agriculture and Agribusiness
- The Size and Importance of Agribusiness
- Planning and Organizing an Agribusiness
- Personal Financial Management
- Agribusiness Recordkeeping and Accounting
- Human Resource Management
- Farm Management
- Agricultural Policy
- Commodity (Futures) Marketing
- Agrimarketing Channels
- Economic Activity and Analysis

Requirements this course fulfills: This course can be used for an elective in business and students can earn college credit.

Course Title: *Personal Finance*

Grades: 10-12

This course will be offered every year.

Credits: 0.5 credit
Prerequisite: None

Weight for Ranking: 1.00

Description: Financial literacy refers to the basic skills people need to manage money and make financial decisions. People are said to be financially literate when they understand money, income and

taxes, budgeting, banking, saving, investing, credit, insurance, retirement planning and managing money for economic self-sufficiency and to build wealth. The goal of this class is to introduce students to all of these things so that they are more comfortable with these topics as they enter the real world. Not only will students learn about these different topics, but they will also apply them in a real world budgeting simulation that will take place during the semester. In addition, after completing a unit on investing through the Junior Achievement program, the students will get to compete against students from other schools in a live, one day Stock Market Challenge in the spring. This course is geared towards 10th-12th graders. The main objective of the course is to make students more financially literate before they graduate from high school and begin making their own financial decisions that will impact the rest of their lives.

Requirements this course fulfills: This course can be used for an elective towards the graduation requirement.

Course Title: *Entrepreneurship*

Grades: 9-12

Credits: 0.50 credit Prerequisite: None

Weight for Ranking: 1.00

Description:

This course will provide students with the opportunity to analyze and evaluate the various aspects of business ownership in today's market. The student will also be involved in the actual process of developing a business plan and then determining its opportunity for success. Throughout this course the student will relate the foundations of marketing and business management to real-life entrepreneurial endeavors.

Requirements this course fulfills: This course can be used for an elective towards the graduation requirement.

Course Title: Marketing

Grades: 10-12

This course will be offered every year.

Credits: 0.5 credit
Prerequisite: None

Weight for Ranking: 1.00

Description: This is a class designed for students who are interested in marketing and improving their soft skills. Students will spend the semester learning how to successfully be a part of a team as they complete different hands-on projects created to reinforce the concepts taught in Marketing. Just like companies competing in the real world, teams will be competing against each other to see who can create the most successful products. Students will learn a great deal about being responsible and

dependable as each team member contributes to the team's overall success or failure. Throughout the course of the semester, we will study many different marketing concepts and examples of them in our lives. For example, when we learn about promotions and what makes them successful, each team will create and run its own real-life promotional sale through our school store, the Armory. We will watch different commercials and look at different ads online and in the newspaper, and analyze all of the marketing techniques we see. Throughout the course, we will be doing a lot of group/project work, so attendance is very important.

Requirements this course fulfills: This course can be used for an elective towards the graduation requirement.

CAREER AND TECHNOLOGY EXPLORATION

Course Title: Career and Technology Education Exploration 7 (CTE Exploration7)

Grade: 7

This course will be offered every year.

Credits: 1.0 credit
Prerequisite: None

Weight for Ranking: N/A

Description: CTE Exploration 7 consists of 40 weeks divided between Technology, Family and Consumer Science and Business

Seventh grade technology is an introduction that consists of ten modules all related to some aspect of technology. They are as follows: Getting to Know Technology; What Resources are Needed for Technology; Using Technology to Solve Problems; Systems and Sub-Systems; Effects of Technology on People and the Environment; Choosing Appropriate Resources for Technological Systems; Processing Resources, Using Systems to Solve Problems; Controlling Technological Systems; and Social Impacts of Technology.

Seventh grade Family and Consumer Science is designed to cover basic knowledge and skills in the areas of proper etiquette, food preparation, food safety, nutrition and wellness, and shopping for food. Throughout the course, students will be exposed to various careers in the food industry.

The business portion of CTE 7 will focus on keyboarding, many aspects of the internet including security, networking and search engines. Once students know how to identify reliable websites, they will spend a little time learning about copyrights, plagiarism and how to properly cite sources. Students will also spend time using the different applications available through Google. Students will also complete the seventh grade portion of Kuder, a college and career ready program.

Requirements this course fulfills: NYSED Jr. High requirement.

Course Title: Career and Technology Education Exploration 8 (CTE Exploration 8)

Grade: 8

This course will be offered every year.

Credits: .75 credit
Prerequisite: None

Weight for Ranking: N/A

Description: CTE Exploration 8 consists of 30 weeks divided between Technology, Family and Consumer Science and Business.

Similar to CTE 7, Technology in 8th grade will continue to develop the basic concepts introduced the prior year and will focus more on machines and measuring through the creation of a CO2 car.

In FACS 7, students will be given an opportunity to acquire and practice consumer skills as they relate to clothing and textiles, as they learn the basics of maintaining a wardrobe, sewing safety, sewing basic hand stitches and buttons, and operation of a sewing machine. Students will expand on their learning from FACS 7 by choosing their own recipes and going through all the steps to prepare these foods (menu planning, ingredient lists, equipment lists, work plans). Throughout the course, students will be exposed to various careers in housing and textiles.

The business portion of CTE 8 will combine personal resource management with career instruction, and is designed to introduce students to the realities of the working world. The material will help students develop progressive skills and behavior that will help them integrate their roles with the workplace, home and community. Students will learn job-hunting techniques and on-the-job skills. Students will rely on their math knowledge to help them prepare budgets and balance checkbooks. Keyboarding will also be involved as students learn the correct ways to format resumes and other business documents. Students will also work on public speaking, a very important skill. Students will spend time looking at their own personalities and figure out what it is they are really interested in. They will learn how to use this information to ensure that they find a job they will be happy with later in life. We will spend some time researching careers and the educational paths to get to those careers. This will help students understand what it is they should be doing now and throughout high school to prepare for college and life after high school. All of this is done through the eighth grade portion of the Kuder program. Students will also take part in a smaller, scaled down version of the Budget Challenge high school students in Personal Finance take part in. This one is put on by Bank of America. This class is a great introduction into the High School Business Department and the other courses offered there.

Requirements this course fulfills: NYSED Jr. High requirement.

COMMUNICATIONS

Course Title: Introduction to Podcasting

Grades: 9-12

This course will be offered every year.

Credits: 0.5 credit
Prerequisite: None

Weight for Ranking: 1.00

Description: Students in grades 9-12 will learn the basics of podcasting and be able to produce a podcast on a topic of their choice using professional software in a three part process focused on producing a quality podcast of no more than 15 minutes. Students will begin by learning how to record and edit their own voice, interviews, audio footage and sound effects using WeVideo through equipment provided by Middleburgh Central Schools as well as a subscription to the service. Students will also learn how to enunciate (speak clearly), control the tone and pitch of their speaking voice, and use their diaphragm to control their breath while speaking.

Part two of the class will be focused on critiquing podcasts and discussing the specifics of things students felt went well, things they would do differently, and how to share information in an interesting way. Each week the class will listen to a podcast, critique it, and attempt to recreate it better. The final 5 weeks of class will be a culmination of all the skills students have learned. Each student will create an original podcast to share with their peers. Deadlines and project specifics will be decided by the class according to what they think are the most important components of a successful podcast.

Requirements this course fulfills: This course will provide students with elective credit towards the requirement for graduation.

ENGLISH LANGUAGE ARTS

Course Title: AIS ELA

Grades: 7-12

This course will be offered every year.

Credits: N/A – full-year class.

Prerequisite: RtI Team recommendation based on an array of data and anecdotal teacher

observations

Weight for Ranking: N/A

Description: This is a non credit-bearing class offered for students in grades 7-12. Academic performance is considered when determining placement in this class. Course grades, final exams, NWEA scores, MCS Writing Benchmarks and state assessment scores are reviewed prior to and during placement. Students may hone organizational skills, practice academic content, prepare for classroom exams and/or prepare for Regents exams for those who have not been successful in the past.

Requirements this course fulfills: The AIS class provides the students with additional practice and assistance

Course Title: ELA 7

Grade: 7

This course will be offered every year.

Credits: N/A – *full-year class*

Prerequisite: *None*

Weight for Ranking: N/A

Description: ELA 7 is designed to provide students with opportunities to practice and master CCLS standards at the 7th grade level. Focus is placed on reading comprehension and analysis, writing skills, vocabulary and language acquisition, and speaking and listening skills. Books suggested by the Common Core are utilized in addition to non-fiction texts, poetic pieces and short stories selected by the teacher. Texts change from class to class. Course content: Instruction focuses on teaching the students to read and respond to a variety of texts. Analysis is a major content area. In addition, students are also instructed in the formats of writing short and extended responses. These responses are based on textual evidence and are expected to determine the student's ability to comprehend the deeper meaning in the texts presented.

Requirements this course fulfills: New York Common Core learning standards for 7th grade.

Course Title: ELA 8

Grade: 8

This course will be offered every year.

Credits: N/A - full-year class

Prerequisite: *None*

Weight for Ranking: N/A

Description: ELA 8 focuses on making students more literate: the course aims to improve students' reading, writing, speaking, listening, and thinking. Throughout the course a collection of short stories, novels, non-fiction, poetry and dramatic texts will be taught. Text selections range from the canonical to the very contemporary. Students' choice reading, both in school and at home, becomes more and more the focus of the course as the year progresses. In writing, the course prioritizes formal argument and literary analysis in the style students will see on the 8th grade state test. Students will also compose informational pieces as well as original narratives. To improve speaking and listening, students will take part in both formal debates and informal classroom discussions, with a focus on responding rather than simply sharing. By year's end, students will push to create their own argumentative and analytical questions that can be answered in both speaking and writing.

Content and curriculum will be adapted and adjusted based on students' data as teachers learn more and more about individual student strengths and student needs. Likewise, teachers will be looking to enrich those students who demonstrate standards mastery early in the course.

Requirements this course fulfills: New York Common Core learning standards for 8th grade.

Course Title: ELA 9

Grade: 9

This course will be offered every year.

Credits: *1 credit – full-year class*

Prerequisite: *None*

Weight for Ranking: 1.00

Description: ELA 9 is the foundation for high school ELA studies preparing students for the 22st century skills they need to become productive workers and citizens. It is also designed as a survey of various types of text as well as a guide for how to interpret them. Additionally, writing is a focus of the year in order to better prepare students for the rigor of Next Generation Standards and the Regents exam they align to, specifically ELA (11th grade) and Global Studies (10th grade). Students will use the *Prentice Hall Literature Series: Timeless Voices, Timeless Themes* as well as a variety of memoirs, novels, and nonfiction readings.

Requirements this course fulfills: This course meets the graduation requirement for ELA 9.

Course Title: ELA 10

Grade: 10

This course will be offered every year.

Credits: 1 credit - full-year class

Prerequisites: *None*

Weight for Ranking: 1.03

Descriptions: ELA 10 is designed to provide students with opportunities to practice and master CCLS standards at the 10th grade level. Focus is placed on reading comprehension, reading analysis, vocabulary and language acquisition, as well as speaking and listening skills. Additionally, writing is a focus of the year, in order to better prepare students for the rigor of Next Generation Standards and the Regents exam they align to, specifically ELA (11th grade) and Global Studies (10th grade). Works of study may include *Night* by Elie Wiesel, *Othello* by William Shakespeare and *12 Angry Men* by Reginald Rose.

Requirements this course fulfills: This course will meet the graduation requirement for ELA 10.

Course Title: ELA 10 Honors

Grade: 10

This course will be offered every year.

Credits: 1 credit - full-year class

Prerequisites: Students must have a score of a 3 or better on their 8th grade ELA assessment, 90% or better in the previous ELA course, or 85% or better overall average, and completion of a summer reading assignment. Recommendation (or lack of) from a teacher may be taken into consideration but is not required.

Weight for Ranking: 1.03

Description: ELA 10 Honors is designed to provide students with opportunities to practice and master Next Generation standards at the 10th grade level with specific attention given to reading, writing and language analysis. This course is taken with AP World History, as a Humanities Collaborative for the 10th grade. Texts may include: *The Book Thief* by Marcus Zusak, *Things Fall Apart* by Chinua Achebe, *Anthem* by Ayn Rand, *The Things They Carried* by Tim O'Brien, and *Macbeth* by Shakespeare.

Requirements this course fulfills: This course will meet the graduation requirement for ELA 10.

Course Title: ELA 11

Grade: 11

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: *None*

Weight for Ranking: 1.03

Description: ELA 11 is designed to educate students in reading, writing and comprehension, in addition to skills that accompany each. The course reflects both the state and federal standards as demonstrated in the Next Generation Standards. This course examines American texts in addition to some British literature, which complements the American texts. Instruction focuses on teaching the students to read and respond to difficult questions that accompany the texts they are reading. Analysis is a major content area. The readings are very difficult and require a good deal of explanation. In addition, students are expected to master the type of writing encountered on the NYS Common Core exam in English Language Arts.

Requirements this course fulfills: This course will meet the graduation requirement for ELA 11.

Course Title: ELA 12

Grade: 12

This course will be offered every year.

Credits: 1.0

Prerequisite: None

Weight for Ranking: 1.0

Description: ELA 12 is a survey course designed to replace four elective classes previously offered at MCS: Poetry, Mythology, Classics in Literature, and Contemporary Literature. The four literary modules will align with the four quarters and in this order: 1) Survey of World Mythology; 2) Survey of Poetry; 3) Classics in Literature; and 4) Contemporary Literature. In addition to the assigned reading, students will be expected to choose a book each quarter to read on their own. Students will also be writing throughout the units as well as completing DYRT quizzes, reading response journals, and unit tests. In addition, students will be writing practice college essays, and students will complete an interdisciplinary research paper.

Requirements this course fulfills: This course will meet the graduation requirement for English 12.

Course Title: AP English Literature and Composition

Grade: 11

This course will be offered every year pending student interest, enrollment and staff availability.

Credits: *1 credit – full-year class*

Prerequisite: 90% or better in previous course (ELA 10) and 85% or better overall average

Weight for Ranking: 1.05

Description: Students in this college—level course read and analyze predominantly American literature written in a variety of times, from 19th Century through the contemporary period. Students will also read some works from the English literature canon for historical and/or literary context. This course will provide students with the intellectual challenges and workload consistent with a typical undergraduate literature class. At the culmination of the course, the students will take the AP English Literature and Composition Exam given in May. Based on their scores, they may be granted advanced placement, college credit, or both at colleges and universities throughout the United States. Students will be required to take the NYS Common Core exam in English Language Arts as well as the AP exam in May.

Requirements this course fulfills: This course will meet the graduation requirement for English 11.

Course Title: CIHS Introduction to Literature; SUNY Cobleskill

Grade: 12

This course will be offered every year pending enrollment and staff availability.

Credits: 1 credit – full-year class.

Prerequisite: 90+ average requirement; Recommendation (or lack of) from a teacher may be taken

into consideration but is not required.

Weight for Ranking: 1.05

Description: This course introduces the student to literary analysis through readings in various genres and across a broad spectrum of styles and eras. Additionally, through writing critical/analytical assignments, the student learns the terms associated with literary analysis and gains additional experience in writing in support of a thesis. The culminating activity is a Writing Symposium where students are given the floor to present their findings after writing a critical literary analysis on a book of their choice.

Requirements this course fulfills: This course will meet the graduation requirement for English 12. College credit is available with inquiry.

FAMILY AND CONSUMER SCIENCES

Course Title: Baking and Pastries

Grades: 9-12

This course will be offered every year (fall) if available per staff and student interest.

Credits: 0.5

Prerequisite: None

Weight for Ranking: 1.00

Description: An introductory course in the principles of baking, with emphasis on kitchen safety and sanitation, bakeshop ingredients and their functions, measurement and scaling, baking tools and equipment and plate presentation. Students will obtain the practical and theoretical training necessary to produce quality, scratch baked items including quick breads, muffins, yeast breads, cookies, cakes, pastries, and assorted pies.

Requirements this course fulfills: This course can be used for elective credit towards graduation.

Course Title: Food Exploration

Grades: 9-12

This course will be offered every year (spring).

Credits: 0.5
Prerequisite: None

Weight for Ranking: 1.00

Description: An introductory course for those wishing to learn the essentials of cooking in areas such as grains and grain products, fruit and vegetables, milk and dairy products, as well as meat and meat alternatives. Labs and classroom experiences will allow students to work safely in a cooperative kitchen setting, while examining the particulars in areas such as meal preparation, food safety and sanitation, influences on food choices, food product marketing, diet and health implications based on MyPlate, food service and etiquette, and transferable skills related to career pathways in food and nutrition. Students will spend about one-half of class time practicing basic food preparation skills.

Course Title: Global and Gourmet Foods

Grades: 10–12

This 40-week course will be offered every year if available per staff and student interest.

Credits: 1.0

S: 1.0

Prerequisite: *None*

Weight for Ranking: 1.00

Description: Have you ever wondered where food dishes originated from? Do you like preparing food? Trying new dishes? This class will introduce fundamental cooking skills associated with the preparation of international and ethnic specific cuisines. Students will focus on specific cooking techniques from worldwide regions while utilizing authentic ingredients and tools in a hands-on lab setting. Investigation of history, geography, climate and traditions specific to each culture will be studied. Students will comprehend recipe modification, safe food handling practices, and food science principles. This course teaches students to recognize the social and cultural factors that influence individuals. Students will explore careers in culinary and pastry arts while participating in entrepreneurial endeavors. Any student interested in a career in culinary, hospitality and tourism and event planning, as well as those interested in exploring more about international cuisine, are encouraged to take this course. Due to the amount of independent work and the material being covered, this course is best suited for juniors and seniors.

Requirements this course fulfills: This course can be used for elective credit towards graduation.

Course Title: Clothing and Textiles

Grades: 9–12

This 20-week course will be offered every year if available per staff and student interest.

Credits: 0.5

Prerequisite: *None*

Weight for Ranking: 1.00

Description: Students taking this course will investigate the relationship between art, textiles and clothing design throughout history, as well as the basic elements of design and color theory. The decision-making process will be applied to various student selected projects including hand sewing, weaving, looming, macrame, embroidery and machine sewing. Approximately one-half of the course will be devoted to developing basic construction skills for which the student will be expected to provide fabric and/or materials outside of those provided by the classroom.

Requirements this course fulfills: This course can be used to fulfill the art/music graduation requirement if Housing & Design is also completed. If completed as a standalone course, this course can be used for elective credit towards graduation.

Course Title: Housing and Design

Grades: 9–12

This 20-week course will be offered every year if available per staff and student interest.

Credits: 0.5

Prerequisite: None

Weight for Ranking: 1.00

Description: The content of this course will enable students to explore design, personal values, and environmental factors as they affect the selection of housing. Interior design, floor plan layouts, selection of furnishings, and home care are stressed. Careers related to housing, household management, and interior design will be explored. Students will create a home floor plan with furnishings, elevation drawings and design boards.

Requirements this course fulfills: This course can be used to fulfill the art/music graduation requirement if Clothing & Textiles is also completed. If completed as a standalone course, this course can be used for elective credit towards graduation.

Leadership / Humanities

Course Title: The H.O.P.E. Classroom

Grades: 9–12

This 40-week course will be offered every year if available per staff and student interest.

Credits: .5

Prerequisite: *None*

Weight for Ranking: 1.00

Description: The H.O.P.E. Classroom is designed to ignite and empower students, giving students the ability to connect and the tools to give H.O.P.E. and Jump into Action, building a community of empathy and compassion in the school, the community, and the world.

This isn't just another curriculum—it's a dynamic approach to social-emotional well-being and leadership training. Rather than simply teaching socialization, the H.O.P.E. Classroom promotes active, purposeful connections and habits that enhance students' social-emotional health. Designed to complement existing SEL programs, the H.O.P.E. Classroom offers a fresh perspective by reframing these abilities as Human Skills vital for success in every part of life.

Requirements this course fulfills: This course can be used to fulfill ½ elective credit towards graduation.

WORLD LANGUAGE

Course Title: Spanish 7

Grade: 7

This course will be offered every year

Credits: *N/A - full-year class*

Prerequisite: *None*

Weight for Ranking: N/A

Description: This is a one-year introductory course. The emphasis is on listening, speaking, reading, and writing to be able to express simple ideas in the present tense. Students learn over 250 vocabulary words and are able to use them for listening, reading, writing, and speaking. Students are also exposed to cultural customs in an effort to develop cross-cultural understanding. Students must pass the class and the final to be eligible for Spanish 1.

Requirements this course fulfills: This course meets the NYSED regulation for foreign language.

Course Title: Spanish I

Grade: 8

This course will be offered every year

Credits: 1 credit - full-year

Prerequisite: Students must pass Spanish 7 and the course final to be eligible for Spanish 1.

Weight for Ranking: 1.00

Description: The focus continues from seventh grade on vocabulary development so as to be able to listen, read, write, and speak in Spanish. Students are also expected to begin to apply grammatical rules to their speaking and writing. Students continue to be exposed to cultural customs. Students must pass the class and the final exam to receive the one credit of foreign language required to earn a diploma. Students who do not pass the class and the final must take one more year of Spanish 1.

Requirements this course fulfills: Students will earn one credit towards graduation as well as meet the minimum graduation requirement for foreign language.

Course Title: Spanish II

Grade: 9

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: Spanish I Weight for Ranking: 1.03 **Description:** Spanish II is a continuation of the study of Spanish with an emphasis on communicating across the language skills of listening, speaking, reading and writing. The focus is on grammar accuracy. Students are expected to be able to communicate fluently in the present tense. Students will begin an analysis of the past tense through vocabulary by the end of Spanish II. Students will use a variety of media and technology to accomplish these skills.

Requirements this course fulfills: This course can be used for an elective towards the graduation requirement as well as count towards the foreign language sequence needed for an Advanced Regents Diploma.

Course Title: Spanish III

Grades: 10 - 12

This course will be offered every year.

Credits: *1.00*

Prerequisite: Spanish II Weight for Ranking: 1.03

Description: Students in this course are held to a higher level of accountability and become more self-sufficient academically. The goal is increased proficiency in reading, writing, speaking and listening. Students will study the following tenses: future, conditional, preterite and imperfect through a variety of media and technology. There is a locally developed final exam for this course.

Requirements this course fulfills: This course can be used for an elective towards the graduation requirement as well as count towards the foreign language sequence needed for an Advanced Regents Diploma.

Course Title: Spanish IV (ASPN 200 – SUNY Albany)

Grades: 11 - 12

This course will be offered every year pending enrollment and staff availability.

Credits: 1 credit - full-year class (4 college credits)

Prerequisite: Spanish III - 80% average or above, 85% on Spanish 3 final, teacher recommendation

Weight for Ranking: 1.05

Description: This course focuses on communication, combining achievement and proficiency such that the student is able to function in a real Hispanic environment. Students will be immersed in the four proficiency areas of reading, writing, listening and speaking, through literature, projects, current events and use of authentic materials, such as films, music, newspapers and magazines. This is a college-level course offered through SUNY Albany.

Requirements this course fulfills: A grade C or higher will earn a student 4 college credits.

Course Title: General Spanish

Grades: 9-12

This course will be offered every year as needed.

Credits: 1 credit – full-year class

Prerequisite: N/A

Weight for Ranking: 1.00

Description: Students are introduced to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. There are two main objectives to the course. The first is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

Requirements this course fulfills: Students will earn one credit towards graduation as well as meet the minimum graduation requirement for foreign language.

HEALTH and PHYSICAL EDUCATION

Course Title: Health 8

Grade: 8

This course will be offered every year.

Credits: N/A

Prerequisite: *None*

Weight for Ranking: N/A

Description: Intermediate level (grade 8) students are required to take 8th grade health. The curriculum is based on: A Guidance Document for Achieving the New York State Standards in Health Education - 2005. Intermediate level health curriculum includes: self-management, relationship management, stress management, communication, decision making, planning and goal setting, advocacy, physical activity and nutrition, HIV/AIDS, sexual risk, alcohol, tobacco, and other drugs, family life, unintentional injury prevention, violence prevention, mental health, and human sexuality.

Requirements this course fulfills: This course meets the NYSED requirement for Jr. High health.

Course Title: HS Health

Grades: 9-12

This course will be offered every year.

Credits: N/A

Prerequisite: *None.*

Weight for Ranking: N/A

Description: All high school students are required to take high school health. Due to the sensitivity of some material covered, this course is recommended for students in grades 10-12. The curriculum is based on: A Guidance Document for Achieving the New York State Standards in Health Education -2005. Topics include but are not limited to: self-management, relationship management, stress management, communication, decision making, planning and goal setting, advocacy, physical activity and nutrition, HIV/AIDS, sexual risk, alcohol, tobacco, and other drugs, family life, unintentional injury prevention, violence prevention, mental health, and human sexuality.

Requirements this course fulfills: This course fulfills the .5 health requirement needed for graduation.

Course Title: PE 7 and 8

Grade: 7

This course will be offered every year.

Credits: N/A

Prerequisite: None

Weight for Ranking: N/A

Description: Physical Education is an integral part of a student's physical and mental wellbeing. We offer a diverse number of activities to provide students with the opportunities to develop cooperative and leadership skills. We also offer many team, individual, and lifetime sports as part of our units at all levels. Fitness is a vital component of our curriculum as well. The junior high levels focus mostly on awareness of personal fitness and the basics of exercise. It is the goal of the Middleburgh Central School Physical Education Department to instill in every student the components necessary in maintaining a healthy existence throughout his/her lifetime.

Requirements this course fulfills: This course fulfills the NYSED requirement for Jr. High Physical Education.

MATHEMATICS

Course: *AIS Math* Grades: 7-12

This course will be offered every year.

Credits: *N/A – full-year class*

Prerequisite: Teacher recommendation or standardized test results

Weight for Ranking: N/A

Description: This is a non-credit bearing class offered for students in grades 7-12. Students are placed in the class based on their performance on NYS math assessments. The AIS class provides the students with additional practice and assistance with the material currently being taught. Assistance is also provided in the learning standard areas which students have been identified as deficient. Homework assistance may also be provided, though this is not the focus of the class. Students may also hone organizational skills, practice academic content, and prepare for classroom exams and/or prepare for Regents exams for those who have not been successful in the past.

Requirements this course fulfills: The AIS class provides the students with additional practice and assistance.

Course Title: Math 7

Grade: 7

This course will be offered every year.

Credits: *N/A – full-year class*

Prerequisite: *None*

Weight for Ranking: N/A

Description: The 7th grade math curriculum is in alignment with the NYS Mathematics Next Generation Curriculum. The topics include content from the following strands: number sense and operations; Algebra; Geometry; measurement; and statistics and probability. Visit the website EngageNY for more in-depth information. The material will be presented in different ways to promote conceptual understanding, fluency, and problem solving. Students will take the 7th Grade State Assessment in May.

Requirements this course fulfills: New York State's Mathematics Next Generation Curriculum for 7th grade.

Course Title: Math 8

Grade: 8

This course will be offered every year.

Credits: N/A - full-year class

Prerequisite: *None*

Weight for Ranking: N/A

Description: The 8th grade math curriculum is in alignment with the NYS Mathematics Next Generation Curriculum. The topics include content from the following strands: number sense and operations; Algebra; Geometry; measurement; and statistics and probability. Visit the website EngageNY for more in-depth information. The material will be presented in different ways to promote conceptual understanding, fluency, and problem solving. Students will take the 8th Grade State Assessment in May.

Requirements this course fulfills: New York State's Mathematics Next Generation Curriculum for 8th grade.

Course Title: *Math 7 Honors*

Grade: 7

This course will be offered every year.

Credits: N/A – full-year class

Prerequisite: *Math 6 with teacher recommendation* and placement test

Weight for Ranking: N/A

Description: Students are selected for the Math 7 Honors program at the end of 6th grade. The selection criterion includes (but is not limited to): standardized test results, 6th grade math academic performance, overall academic performance and teacher recommendation. The Math 7 Honors program is a rigorous, challenging and demanding course of study that is best suited for those who meet *all* the entry criteria. This course begins the accelerated sequence of the NYS Next Generation Curriculum: Algebra I; Geometry; and Algebra II. Solving linear equations and inequalities, quadratic equations and systems, operations with polynomials and algebraic fractions, linear and quadratic graphs, factoring and Pythagorean Theorem are among the major algebraic topics that will be covered. Students will take the Math 7 State Assessment in May.

Requirements this course fulfills: New York State's Mathematics Next Generation Curriculum for 7^{th} grade and portions of 8^{th} grade.

Course Title: Algebra I

Grades: 8-10

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: None (exception -8^{th} graders who have successfully completed Accelerated Math 7)

Weight for Ranking: 1.03

Description: This is a one-year credit-bearing course that counts towards a student's mathematical commencement requirements aligned to the Next Generation Learning Standards, intended to be the first of a three-year sequence. Students will study linear equations and inequalities, linear regression models, quadratic and exponential expressions (including rational exponents), quadratic functions, and formalize and extend the concept of functions

(including function notation, domain and range, and exploration of many types of functions). Students enrolled in this course will sit for the Algebra I Regents in June.

Requirements this course fulfills: This course counts towards a student's mathematical commencement requirement and meets New York State's mathematics requirements towards earning a Regents Diploma or Regents Diploma with Advanced Designation.

Course Title: *Geometry*

Grades: 9-11

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: Algebra I Weight for Ranking: 1.03

Description: This is a one-year credit-bearing course that counts towards a student's mathematical commencement requirements aligned to the Next Generation Learning Standards and is intended to be the second year of a three-year sequence. This course employs an integrated approach to the study of connecting Algebra to geometric relationships and proofs. Properties of triangles, quadrilaterals, and circles will receive particular attention. Congruence and similarity of triangles will be established using appropriate theorems; transformations including rotations, reflections, translations, and coordinate geometry will be used to establish and verify geometric relationships; and topics in trigonometry extending to three-dimensional geometry will be explored. Students enrolled in this course will sit for the Geometry Regents in June.

Requirements this course fulfills: This course counts towards a student's mathematical commencement requirements and meets New York State's mathematics requirements towards earning a Regents Diploma or a Regents Diploma with Advanced Designation.

Course Title: Algebra II

Grades: 10-12

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: Geometry
Weight for Ranking: 1.03

Description: Advanced topics include: polynomial, rational, and radical relationships; the story of trigonometry and its contexts; real numbers, logarithms, exponential and logarithmic functions and graphs; sequence and series; probability; model data distributions; drawing conclusions and using data. Students enrolled in this course will sit for the Algebra II Regents in June.

Requirements this course fulfills: This course is to satisfy the Algebra II requirement of the Next Generation Learning Standards. The course culminates with the NYS Regents Examination, in which a student must receive a passing score to obtain an Advanced Regents Diploma.

Course Title: *Pre-Calculus*

Grades: 11-12

This course will be offered every year.

Credits: 1 credit – full-year class.

Prerequisite: Algebra II Weight for Ranking: 1.03

Description: This course is designed to prepare students for college level math courses, including Calculus. Topics include: a review of Algebra II materials as well as functions and their graphs; trigonometry with applications; matrix algebra; polar graphing; limit theory; and conic sections. Emphasis is placed on graphing polynomial, rational, exponential, logarithmic, and trigonometric functions. TI-84 graphing calculators are used throughout the year. All students will take a teacher prepared final exam in June.

Requirements this course fulfills: This course will fulfill a fourth-year math credit preparing students to be college and career ready.

Course Title: Calculus

Grade: 12

This course will be offered every year.

Credits: *1 credit – full-year class*

Prerequisite: *Pre-Calculus or Algebra II (with teacher recommendation)*

Weight for Ranking: 1.05

Description: This course is a college level course in Calculus. The objectives are to prepare students for college Calculus and to broaden the student's appreciation for the foundations of mathematics and the rationale behind its procedures. Topics covered include functions, limit theory, differential calculus, integral Calculus, and applications. The TI-84 graphing calculator will be used throughout the year. All students will take a college-level final exam in June.

Requirements this course fulfills: 1 HS credit.

Course Title: *Concepts of Math*

Grades: 10-12

rades: 10-12

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: Two mathematics courses

Weight for Ranking: 1.00

Description: This is a third-year math elective. Once a student has completed two Regents level courses they may fulfill their graduation requirements in math by passing this course. This course covers a wide range of topics. The fundamental purpose of this course is to formalize and extend important concepts and skills related to high school mathematics. The focus is to review and deepen understanding of a variety of Pre-Algebra, Algebra, Geometry, and Trigonometry topics. Financial literacy and the use of technology will be implemented into the course. All students will complete a cumulative final project that is given in June.

Requirements this course fulfills: Once a student has completed two Regents level courses they may fulfill their graduation requirements in math by passing this course.

Course Title: Business Math

Grades: 10-12

This course will be offered every year.

Credits: *1 credit – full-year class*

Prerequisite: Two mathematics courses

Weight for Ranking: 1.00

Description: This is a third-year math elective. Once a student has completed two Regents level courses they may fulfill their graduation requirements in math by passing this course. This course covers a wide range of topics. The fundamental purpose of this course is to take Math concepts and apply them to real world scenarios that students will be sure to encounter once they enter adulthood. Some topics covered include: gross and net pay, banking services, loans and credit cards, sales tax, unit prices, and more!

Students in Business Math will also be responsible for the financial piece of running the Armory, the school store. They will be in charge of counting inventory and keeping track of sales, and making sure

that the two match up. Students will also help set prices at the beginning of the year after learning about the concept of price markups and costs versus profits.

Requirements this course fulfills: Once a student has completed two Regents level courses they may fulfill their graduation requirements in math by passing this course.

Course Title: Foundations of Math

Grade: 9

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: *None*

Weight for Ranking: 1.00

Description: This is a credit-bearing course that counts towards a student's mathematical commencement requirements and meets New York State's mathematics requirements towards earning a Regents Diploma. This course is aligned to the Next Generation Learning Standards for Algebra I, but is intended for students who need additional math preparation by extending Algebra I over two years. This course must be followed by Algebra I where students will take the Algebra I Regents Exam at the end of this second year. This course emphasizes developing skills and processes to successfully solve problems and become more mathematically confident through the study of elementary algebra. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe for students to experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. There is no Regents exam for this course, but a local final exam will be given.

Requirements this course fulfills: This course counts towards a student's mathematical commencement requirements and meets New York State's mathematics requirements towards earning a Regents Diploma.

Course Title: Principles of Engineering

Grades: 11-12

This course will be offered based on availability.

Credits: 1 credit - full-year class

Prerequisite: *CAD/CAM* **Weight for Ranking:** 1.03

Description: Open to grades 11-12. The prerequisite for this course is a successful completion of CAD/CAM. Principles of Engineering is a one credit 40-week advanced course, intended for the student interested in the engineering field. This course will provide the student with the basic knowledge about the field of engineering and will be presented through the use of case studies. These case studies will concentrate on the following five areas: automobiles; structures; robotics;

communications and computer control. The case study approach will allow the student to solve problems using the same techniques used by engineering firms. The skills that will be developed through the completion of assigned tasks and projects are: communication skills; technical writing; uses of technical tools; uses of computer drawing and machining equipment; and the measurement and application of both mathematics and science.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement and can be used for a technology sequence OR students may use as a third unit of math to meet the graduation requirement.

Course Title: Statistics CIHS

Grades: 11-12

This course will be offered every year.

Credits: 1 credit – full-year class - (3 college credits)

Prerequisite: Algebra II Weight for Ranking: 1.05

Description: Sponsored by SUNY Cobleskill, Statistics is equivalent to a first semester college course in Elementary Statistics. This course is designed to be comparable to a typical non-calculus-based technology introductory statistics course taught in a college/university. The course emphasizes: (1) exploring data; (2) planning a study; (3) anticipating patterns and (4) statistical inference. The graphing calculator will be the chief tool for data analysis. Statistics includes; data types, standard deviation, z-scores, t-scores, distribution frequencies, sampling error, survey/polling projects, nonparametric statistics, and related topics. The TI-84 graphing calculator will be used throughout the course. There is no Regents exam for this course, but a local final exam will be given.

Requirements this course fulfills: This course will fulfill a fourth-year math credit preparing students to be college and career ready. Upon successful completion, students may earn three college credits.

MUSIC

Course Title: Music 7

Grade: 7

This course will be offered every year.

Credits: N/A - 20-week class

Prerequisite: *None*

Weight for Ranking: N/A

Description: This class focuses on reading and performing music on the guitar and keyboard. Building on skills learned in Grades K-6 music, students will learn how to practice an instrument with the intention of mastering songs and pieces of music. On the guitar, students will learn chord progressions in the Key of G, strumming patterns, standard notation, and TAB notation. On the piano, students will learn to play two-handed melodies, as well as play a melody accompanied by chords in the Key of C. Students will also use computers to compose, edit, and publish pieces of music they create electronically. Students are graded on written tests/quizzes, performance tests, and individual/group projects.

Requirements this course fulfills: This course meets the NYSED Jr. High requirements for music.

Course Title: Music 8

Grade: 8

This course will be offered every year.

Credits: N/A

Prerequisite: *None*

Weight for Ranking: N/A

Description: This class focuses on how music impacted the growth of our society and culture through analyzing songs through genres of music such as blues, country, jazz, rock and pop. Students will review and continue to explore the foundations of music including rhythm, notes and structure. Students will have the opportunity to develop their piano, ukulele, and guitar skills from Music 7. Students will also continue using computers to compose, edit, and publish pieces of music electronically. Students are graded on written tests/quizzes, class work, and individual/group projects.

Requirements this course fulfills: This course meets the NYSED Jr. High requirement for music.

Course Title: Jr. High Band

Grades: 7-8

This course will be offered every year

Credits: N/A

Prerequisite: None

Weight for Ranking: N/A

Description: The group rehearses every other school day with the goal of performing at three different concerts during the school year. This is a class where instrumental ensemble skills are taught and improved upon. There are no auditions and students are never pressured to sing alone. The only requirement is concert attendance and a small-group band lesson once in a six-day rotation.

Requirements this course fulfills: This course is an elective opportunity for students in grades 7 and 8.

Course Title: Jr. High Choir

Grades: 7-8

This course will be offered every year

Credits: N/A

Prerequisite: None

Weight for Ranking: N/A

Description: The group rehearses every other school day with the goal of performing at three different concerts during the school year. This is a class where singing ensemble skills are taught and improved upon. There are no auditions and students are never pressured to sing alone. The only requirements are concert attendance and small-group vocal lessons once a week.

Requirements this course fulfills: This course can be used as part of the state graduation requirement for fine arts and can be used as an elective.

Course Title: Music Theory & Composition 1/2/3

Grades: 9 - 12

This course will be offered yearly as a scaffolded 3-level class.

Credits: 0.5 credit – full-year class offered every other day

Prerequisites: Level 1 - None, Level 2 - Theory 1, Level 3 - Theory 2 **Weight of Ranking:** Level 1 - 1.00, Level 2 - 1.03, Level 3 - 1.03

Scope/Description: Students will learn the fundamental elements of music such as pitch, rhythm, harmony and structure. Emphasis will be placed on ear training, sight-reading, and the practical

application of theoretical knowledge. By the end of the course, students will have the skills to analyze and create basic musical compositions, providing a strong base for further study in music. This course is intended for students of all levels who have an interest in understanding and composing written music for traditional and emerging ensembles. This class has been created to meet the needs of students of all levels by scaffolding content knowledge for each unit building on what students already know from previous levels.

Requirements this course fulfills: This course meets the graduation requirement for fine arts and can be used as an elective.

Course Title: *High School Band*

Grades: 9-12

This course will be offered every year.

Credits: 0.5 – full-year class offered every other day

Prerequisite: *None*

Weight for Ranking: 1.00

Description: The group rehearses every other school day with the goal of performing at three different concerts during the school year. This is a class where playing skills are taught and improved upon. In addition, every band member receives an instructional lesson once every six days. There are no auditions and the only requirement is concert attendance and small group lesson attendance.

Requirements this course fulfills: This course can be used as part of the state graduation requirement for fine arts and can be used as an elective.

Course Title: High School Choir

Grades: 9-12

This course will be offered every year.

Credits: 0.5 credit – full-year class that meets every other day

Prerequisite: *None*

Weight for Ranking: 1.00

Description: This group rehearses every other school day with the goal of performing at three different concerts during the school year. This is a class where singing skills are taught and improved upon in both large group (choir) and small-group (weekly lesson) format. There are no auditions and all students are encouraged to join regardless of prior experience. The only requirements are concert attendance and small-group vocal lessons once a week.

Requirements this course fulfills: This course can be used as part of the state graduation requirement for fine arts and can be used as an elective.

Course Title: *Modern Band*

Grades: 9-12

This course will be offered every year.

Credits: 0.5 credit - full-year class that meets every other day **Prerequisite:** None, but enrollment in HS band is preferred

Weight for Ranking: 1.03

Description: Students in the class will play guitar, bass, piano, drums, ukulele, or sing. Students will be encouraged to try new instruments, so previous experience is not required. Songs will be learned in a variety of ways from iconic chord charts to reading traditional notation. Students will help the teacher select music to rehearse and perform based on personal preferences and experience level of the group. Students will be encouraged to create their own music in addition to playing covers of popular music.

Requirements this course fulfills: This course can be used as part of the state graduation requirement for fine arts and can be used as an elective.

SCIENCE

Course Title: Science 7

Grade: 7

This course will be offered every year.

Credits: N/A

Prerequisite: None

Weight for Ranking: *N/A*

Description: Included in this course are topics found in the NYS Science Learning Standards. These topics include structure and function, matter and energy, chemical reactions, waves, forces, natural selection, interdependence, space, weather and climate, systems, history of earth and human impact. The goal of science in 7th grade is to enable students to understand science concepts through the use of scientific inquiry. Students will develop their skills of analysis, inquiry, and design through active laboratory work on a regular basis.

Requirements this course fulfills: This course fulfills the state requirement for 7th grade science.

Course Title: Accelerated Science 7

Grade: 7

This course will be offered every year.

Credits: N/A

Prerequisite: Students should have scored a 4 on their 5/6 grade science assessment and come with recommendation of the 5/6 grade science teacher. Students will also need to be in the accelerated math program.

Weight for Ranking: N/A

Description: This course is intended to give students the opportunity to increase the availability of science courses they are able to take during high school. Included in this course are topics found in the NYS Science Learning Standards. These topics include structure and function, matter and energy, chemical reactions, waves, forces, natural selection, interdependence, space, weather and climate, systems, history of earth and human impact. Students will explore 8th grade science concepts that are critical base knowledge for success in earth science, chemistry and physics. The goal of this course is to utilize scientific inquiry to advance their skills of analysis, inquiry, and design through active laboratory work on a regular basis. It will also allow students to move at a faster pace. Students successful in this course will take the living environment regents, in lieu of the ILS exam, during their 8th grade year.

Requirements this course fulfills: This course fulfills the state requirement for middle school science

Course Title: Science 8

Grade: 8

This course will be offered every year.

Credits: N/A

Prerequisite: *None*

Weight for Ranking: N/A

Description: Included in this course are topics found in the NYS Science Learning Standards. Major concepts include structure and function, matter and energy, chemical reactions, waves, forces, natural selection, interdependence, space, weather and climate, systems, history of earth and human impact. Topics covered in 8th grade science expand upon and compliment those topics covered in 7th grade science. Students will be engaged in laboratory experiences that have been designed to teach them the interrelationships of the physical environment. Students will use creative problem solving to develop simple solutions to simple problems and develop explanations of natural phenomena in a continuing creative process that incorporates scientific inquiry.

Requirements this course fulfills: This course fulfills the state requirement for 8th grade science.

Course Title: AIS (Chemistry, Earth Science, Living Environment)

Grades: 9-12

This course will be offered every year or as needed.

Credits: N/A

Weight for Ranking: N/A

Description: This class provides students with additional practice and assistance.

Requirements this course fulfills: The AIS class provides the students with additional practice and assistance

Course Title: Chemistry

Grades: 11-12

This course will be offered every year.

Credits: *1 credit – full-year class*

Prerequisite: Students should have completed and passed Integrated Algebra, Geometry, and be enrolled in Trigonometry or equivalent. Successful completion of Regents Geometry including a passing grade on the Geometry Regents. Successful completion of Regents Earth Science and a grade of 75 or higher on the Earth Science Regents exam.

Weight for Ranking: 1.03

Description: The Physical Setting/Chemistry course is intended to provide the student with an understanding of the theoretical and practical aspects of Chemistry and the ability to handle equipment and chemicals safely. This course will enable the successful student to enter the freshman level Chemistry class at any university this means that it will prepare them for a college Chemistry class. The class meets five times per week and the lab component meets two days out of a six-day cycle. This course is intended for above average students with a history of successfully completing Regents level Science courses. The topics in Chemistry include, but are not limited to, matter and energy, atomic structure, bonding, the periodic table, mathematics of Chemistry, kinetics and equilibrium. acids and bases, redox and electrochemistry, nuclear Chemistry and organic Chemistry. There are five lecture periods each week plus a Chemistry lab that meets twice in a six-day cycle. Students must satisfactorily complete all required laboratory experiences in order to sit for the Regents examination. Students will need to take the NYS Regents in Physical Setting/Chemistry.

Requirements this course fulfills: This course counts towards the graduation requirement in science.

Chemistry - Lab Requirement: Required for all students enrolled in Chemistry. The lab component meets two days out of a six-day cycle. Students must meet the minimum lab requirements to sit for the Regents exam.

Course Title: Earth Science

Grade: 10

This course will be offered every year.

Credits: *1 credit – full-year class*

Prerequisite: Students should have completed and passed Regents Living Environment and Algebra

and associated Regents exams. Weight for Ranking: 1.03

Description: Students will study many aspects of Earth, thus gaining critical thinking skills and a better understanding of the world in which we live. Course content includes Earth formation, composition of Earth, relationship between the Earth, Sun and Moon, geology, meteorology, and astronomy. Students will need to take the NYS Regents in Physical Setting/Earth Science.

Requirements this course fulfills: This course counts towards the graduation requirement in science.

Earth Science - Lab Requirement: Lab component meets every other day. This is not a separate course offering. It is in addition to Regents Earth Science and is a mandatory course requirement - 1200 minutes of laboratory experiences as required by NYS education regulations. Failure to successfully complete the 1200 minutes will exclude the student from taking the Physical Setting/Earth Science Regents exam.

Course Title: AP Environmental Science - Advanced Placement

Grade: 12

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: Students should have completed and passed Regents Living Environment, Regents Earth

Science and Regents Chemistry –both the course and Regents exams.

Weight for Ranking: 1.05

Description: This course is a comprehensive study of the basics of environmentalism and is designed to link together the major ideas in Living Environment, Earth Science and Chemistry while introducing students to all environmental fields. Course content consists of basic mechanics of ecosystems and earth sciences, energy use and production, alternative energy, human population growth and impact, climate change, pollution, waste disposal, land and water use and sustainability. Students will be required to take the Advanced Placement exam in May.

Requirements this course fulfills: This course will provide students with one credit towards the graduation requirement in science.

Course Title: *Living Environment*

Grade: 9

This course will be offered every year.

Credits: 1 credit – full-year class

Prerequisite: *None*

Weight for Ranking: 1.03

Description: This course is a comprehensive study of Biology designed to prepare students for the Living Environment Regents and college-based Biology courses. Course content includes the Nature of Life, Exploring Life, Cells, Ecology, Genetics, Mechanisms of Evolution, The Evolutionary History of Biological Diversity, Plant Form and Function, Animal Form and Function.

Requirements this course fulfills: This course will count towards the graduation requirement in science.

Living Environment – Lab Requirement: Required for all students enrolled in Living Environment. The lab component meets every other day for one semester, either in the fall or spring. Students must meet the minimum lab requirements to sit for the Regents exam.

Course Title: *Natural Disasters*

Grades: 10 – 12

Credits: 1 credit

Prerequisite: One year of high school science, passed one science Regents exam.

Weight for Ranking: 1.00

Description: The *Natural Disasters* course has been designed to give high school students an alternative selection in their science requirements in the Middleburgh Central School District. The course is a 40 - week course that is scheduled to meet for 43 minutes per day and is designed to provide students with current information regarding the major natural disasters that we are faced with today. These disasters include but are not limited to earthquakes, tornadoes, hurricanes, tsunamis, volcanic eruptions, flooding, and asteroids. Students will leave this class with a better understanding of the forces of nature and the disasters that they cause. From meteorological events to geological events this course will give students a much better view of their world and surroundings.

Requirements this course fulfills: A student interested in enrollment into the Natural Disasters course should consider the following requirements:

- 1. Successful completion of one Regents science course.
- 2. General knowledge of your surroundings.
- 3. Interest in events affecting people's everyday lives and the environment.

This is not a Regents science course. Therefore it is highly advised that students fulfill the Regents requirements for science **before** enrolling into this class

Course Title: Conceptual Chemistry and Physics

Grades: 11-12

This course will be offered every year.

Credits: *1 credit – full-year class*

Prerequisite: Earth Science or Natural Disaster

Weight for Ranking: 1.00

Description: This course provides an introduction to, and practical applications of, major concepts in chemistry and physics. This course is divided into two semesters. The first semester is Chemistry and the second semester is Physics. For chemistry, topics will include properties and applications of elements and compounds, using the Periodic Table, chemical bonding and reactions, solubility, acids and bases, and organic chemistry. For physics, topics will include motion, forces, energy, electricity, magnetism, and waves. Student input on topics of interest is encouraged.

Requirements this course fulfills: Successful completion of this course will provide students with one-credit towards the graduation requirement in science.

Course Title: *Physics*

Grades: 11-12

This course will be offered every year

Credits: 1.00 – full-year class.

Prerequisite: Successful completion of Algebra 2 including a passing score on the Regents exams.

Successful completion of Chemistry

Weight for Ranking: 1.05

Description: The Physical Setting/Physics course has a rigorous mathematical and theoretical component. This course is intended for above average students with a history of success in both mathematics and science. The class meets five times per week and the lab component meets two days out of a six-day cycle. Students must meet the minimum lab requirement to sit for the Regents exam. The topics include but are not limited to: mechanics, energy, waves, electricity/magnetism and modern physics.

Requirements this course fulfills: This course counts towards the graduation requirement in science.

Physics - Lab Requirement: Required for all students enrolled in Physics. The lab component meets two days out of a six-day cycle. Students must meet the minimum lab requirements to sit for the Regents exam.

SOCIAL STUDIES

Course Title: Social Studies 7

Grade: 7

This course will be offered every year.

Credits: N/A
Prerequisite: None

Weight for Ranking: N/A

Description: The seventh grade social studies curriculum provides for the study of the first century of United States history. The course begins with a comprehensive study of geography at all levels, worldwide to local, and examines how Americans have adapted over time to their environment. This is followed by a chronological examination of major historical events that helped shape the development of American culture. In addition, emphasis is placed on the evolution of the U.S. government, its foundation, and traditions.

Requirements this course fulfills: This course fulfills the state requirement for 7th grade social studies.

Course Title: Social Studies 8

Grades: 8

This course will be offered every year.

Credits: N/A

Prerequisite: None

Weight for Ranking: N/A

Description: This class is a continuation of 7th grade social studies covering the history of the United States after the Civil War (1865). Important 8th grade topics include Immigration, Industrialization, Westward Expansion, World War I and II, the Civil Rights Movement, Women's Suffrage, the Cold War, September 11th, and more.

Requirements this course fulfills: This course fulfills the state requirement for 8th grade Social Studies.

Course Title: American Politics - UHS (GOVT 141-SUNY Cobleskill)

Grades: 11 - 12

This course will be offered every year.

Credits: 0.5 credit – half-year class (3 college credits)

Prerequisite: *None*

Weight for Ranking: 1.05

Description: This course presents an introduction to American Politics through the examination of U.S. political institutions, philosophical foundations, and the political culture/society of the U.S. In addition, this course will analyze how the development of the U.S. political system has impacted society and how individuals or groups may impact the government. Students will read materials on the U.S. governmental system that will be discussed in class. Every Friday a student or students will lead the class in presenting a current topic related to the American Government. Students will be expected to discuss its significance and lead a class discussion about the topic. The presentation (leading the class) will be a test/project grade. This course will meet the graduation requirement for Participation in Government. Course Goals/Objectives: To develop a basic understanding of the American governmental system and to begin to think in a theoretical way about these important issues, an important course goal is to learn something about the nature of government and to enjoy this class.

Requirements this course fulfills: This course meets the graduation requirements for Participation in Government and students can earn college credit.

Course Title: *Economics*

Grade: 12

This course will be offered every year.

Credits: 0.5 credit – half-year class

Prerequisite: *None*

Weight for Ranking: 1.0

Description: In this course, theory and practice in modern economic life will be studied. This course includes an overview of economic principles such as the role of each factor of production (land, labor, capital, and entrepreneurship), the role of the consumer, government involvement in economic planning, the study of economic growth, and the analysis of the factors of growth, money, banking, International Trade/Competition Investment and current problems. Other topics include the operation of the market (microeconomics) and overall economy (macroeconomics) and the role of the government will be examined, including fiscal and monetary policies.

Requirements this course fulfills: This course meets the graduation requirements for Economics.

Course Title: Global History and Geography I

Grade: 9

This course will be offered every year.

Credits: 1 credit - full-year course.

Prerequisites: NA

Weight for Ranking: 1.00

Description: The Global History and Geography core curriculum is designed to focus on the five social studies standards, common themes that recur across time and place, and ten historical units. This curriculum provides students with the opportunity to explore what is happening in various regions

and civilizations at a given time. In addition, it enables students to investigate issues and themes from multiple perspectives and make global connections and linkages that lead to in-depth understanding. As students explore the five social studies standards, they have multiple opportunities to explore the content and intellectual skills of history and the social science disciplines. Course Content: Global History and Geography I units: Early Civilizations; Classical Civilizations; the Middle Ages, European Renaissance and Enlightenment.

Requirements that this course fulfills: This course meets the Global History and Geography graduation requirement in social studies.

Course Title: Global History and Geography II

Grade: 10

This course will be offered every year.

Credits: *1 credit - full-year course.*

Prerequisites: Global History and Geography I

Weight for Ranking: 1.03

Description:

Global History and Geography II is a comprehensive course that examines world history from the 19th century to the present, focusing on political, economic, and social developments across diverse cultures. Students will analyze significant events, movements, and figures, exploring themes such as imperialism, globalization, and human rights. Emphasis will be placed on geographical context and its impact on historical developments. Through engaging discussions, critical readings, and research projects, students will enhance their analytical skills and gain a deeper understanding of global interconnections, preparing them for informed citizenship in an increasingly interconnected world.

Requirements this course fulfills: This course meets the Global History and Geography graduation requirement in social studies.

Course Title: Introduction to Sociology - UHS (SOSC 111 - SUNY Cobleskill)

Grades: 11 – 12

This course will be offered every year (with student interest and available staffing).

Credits: 1 credit – full-year class – (3 college credits)

Prerequisite: *None*

Weight for Ranking: 1.05

Description: This course will provide students with the fundamental ideas of Sociology: the scientific study of human social life, groups and societies. The course is designed to facilitate the use of critical thinking skills in the analysis of society and human behavior. Topics include: Sociological

Perspective; Social Interaction in Everyday Life; Sociological Investigation; Groups and Organization; Culture; Deviance; Society; Socialization; and Global Stratification.

Requirements this course fulfills: This course can be used as a social studies elective and students can earn college credit.

Course Title: Microeconomics - UHS (ECON 123 -SUNY Cobleskill)

Grades: 11 - 12

This course is offered every year.

Credits: 0.5 credit – half-year class (3 college credits)

Prerequisite: *None.*

Weight for Ranking: 1.05

Description: The purpose of this course is to introduce students to the basics of economic decision-making by businesses, consumers and the government. In addition to the fundamental models of supply and demand, perfect competition and imperfect competition, the course will examine the strengths and weaknesses of the modern capitalist economy and the efficacy of government policies. Students will learn to use mathematical and graphical models to analyze market decisions.

Requirements this course fulfills: This course will meet the graduation requirement for Economics and students may earn college credit.

Course Title: Participation in Government

Grade: 12

This course will be offered every year.

Credits: 0.5 credit – half-year class

Prerequisite: *None*

Weight for Ranking: 1.0

Description: This course focuses on the formation of effective public policy. Students are taught skills of decision-making, deliberation and problem solving in the context of evaluating real issues confronting the communities in which the students live. Central to this course is the manner in which decisions are arrived through involvement of individuals as participating citizens. Another area studied is how citizen influence can be used in policy making at various levels of government. Emphasis will be on real-world issues that are in line with content standards and course assessments. Students are encouraged to participate in government on the local level by attending and summarizing local government meetings.

Requirements this course fulfills: This course will meet the graduation requirement for Participation in Government.

Course Title: AP Psychology

Grades: 11 - 12

This course will be offered every year.

Credits: 1 credit - full-year course

Prerequisites: *None*

Weight for Ranking: 1.05

Description:

The Advanced Placement Psychology course is designed for high school students who wish to explore the scientific study of behavior and mental processes. This rigorous curriculum aligns with the updated 2025 AP exam framework, offering an in-depth examination of psychological theories, research methodologies, and critical issues in psychology.

Students will engage with key concepts across various domains, including biological, cognitive, developmental, social, and abnormal psychology. Emphasis will be placed on the application of psychological principles to real-world situations, fostering analytical and critical thinking skills. Through a combination of lectures, discussions, and hands-on activities, students will learn to interpret psychological research and understand its implications.

Additionally, the course will cover ethical considerations in psychological research, prepare students for the AP exam format, and enhance their ability to formulate and test hypotheses. Students will also explore contemporary issues in psychology, such as mental health, cultural influences, and technology's impact on behavior.

By the end of the course, students will be equipped to critically evaluate psychological research and apply their knowledge to various contexts, preparing them for success in higher education and beyond. This course not only aims to cultivate a passion for psychology but also to empower students with the knowledge and skills necessary for the AP exam and future academic endeavors.

Requirements this course fulfills: Students who earn a qualifying score on an AP Exam are typically eligible to receive college credit and/or placement into advanced courses in college.

Course Title: US History & Government

Grade: 11

This course will be offered every year.

Credits: *1 credit – full-year class*

Prerequisite: None

Weight for Ranking: 1.03

Description: This class covers the full range of U.S. history from humble beginnings to the current day. Major topics to be discussed include: Immigration; Industrialization; Westward Expansion; World War I and II; the Civil Rights Movement; Women's Suffrage; the Cold War; September 11th, and more. There will be a New York State Regents Exam at the end of the year.

Requirements this course fulfills: This course meets the US History and Government graduation requirement in Social Studies.

Course Title: AP US History - Advanced Placement

Grades: 11 and 12

This course will be offered every year.

Credits: 1 credit - full-year class

Prerequisites: Completion of Global History and Geography I & II

Weight for Ranking: 1.05

Description:

The Advanced Placement U.S. History course offers a comprehensive exploration of American history from pre-Columbian times to the present, with an emphasis on critical thinking, analytical skills, and historical inquiry. This rigorous curriculum is designed to prepare students for the AP exam while fostering a deep understanding of the political, social, cultural, and economic developments that have shaped the United States.

Students will engage with key themes such as the founding of the nation, westward expansion, civil rights movements, the impact of industrialization, and the role of the United States in global affairs. Through the examination of primary and secondary sources, students will learn to analyze historical documents, evaluate differing perspectives, and construct well-supported arguments.

The course will include a variety of instructional methods, including lectures, discussions, group projects, and research assignments, encouraging active participation and collaboration among students. Additionally, students will develop their writing skills through document-based questions and essay assignments, preparing them for the AP exam format.

By the end of the course, students will possess a nuanced understanding of U.S. history and its complexities, allowing them to draw connections between past events and contemporary issues. This course aims to cultivate a passion for history and empower students with the knowledge and skills necessary for success in higher education and beyond, fostering informed and engaged citizens.

Requirements this course fulfills: This course meets the US History and Government graduation requirement in Social Studies. Students who earn a qualifying score on the AP Exam are typically eligible to receive college credit and/or placement into advanced courses in college.

Course Title: AP World History - Advanced Placement

Grades: 10-12

This course will be offered every year.

Credits: 1 credit - full-year class

Prerequisites: 90% or better in previous course and 85% or better overall average

Weight for Ranking: 1.05

Description:

The Advanced Placement World Modern course provides an intensive examination of global history from approximately 1200 CE to the present, emphasizing themes of interaction, conflict, and change. Aligned with the updated 2023 AP exam framework, this course encourages students to develop a nuanced understanding of historical events and their interconnectedness.

Students will explore key concepts, including the effects of globalization, the rise of empires, revolutions, and the impact of industrialization and technology on societies. Through an analysis of primary and secondary sources, students will cultivate critical thinking and historical inquiry skills, enabling them to evaluate multiple perspectives on historical narratives.

The curriculum incorporates diverse regions and cultures, highlighting significant developments in Europe, Asia, Africa, and the Americas. Students will engage in discussions, collaborative projects, and research assignments that promote an appreciation for the complexities of the modern world.

Additionally, the course prepares students for the AP exam by familiarizing them with its format, including multiple-choice questions, short answer responses, and document-based essays. Emphasis will be placed on the construction of coherent arguments supported by evidence.

By the end of the course, students will be equipped to critically analyze historical events, recognize patterns of change over time, and understand the historical roots of contemporary global issues. This course not only aims to foster a passion for history but also to prepare students for success in higher education and beyond.

Requirements this course fulfills: This course meets the Global History and Geography graduation requirement in social studies. Students who earn a qualifying score on the AP Exam are typically eligible to receive college credit and/or placement into advanced courses in college.

Course Title: 9-11: Attack on America

Grades: 10, 11 and 12

This course will be offered on D.L.

Credits: 0.5 credit – half-year class

Prerequisites: *None*Weight for Ranking: 1.0

Students in this course will develop an understanding of the forces that led to the 9-11 attacks and the policies the United States adopted in response. Key topics to examine include a deep dive into the events of 11 September 2001, the rise of modern terrorism and development of the al Qaeda ideology, U.S. foreign and domestic policies before and after the attack like the Global War on Terror, and the impact on U.S. and international communities.

Course Title: The Hunt for Osama Bin Laden

Grades: 10, 11 and 12

This course will be offered on D.L.

Credits: 0.5 credit – half-year class

Prerequisites: *None*Weight for Ranking: 1.0

Students in this course will develop an understanding of the Al Queda leader Osama Bin Laden and the U.S. effort to avenge the 9-11 attack by hunting him down over the course of 10 years. Key topics include an overview of the 9-11 attack, creation and expansion of the Al Queda network, the decade-long effort to track Bin Laden to Abbottabad, Pakistan, and Operation Neptune Spear May 2nd. 2011.

Course Title: The Economics of War

Grades: 10, 11 and 12

This course will be offered on D.L.

Credits: 0.5 credit – half-year class

Prerequisites: *None* **Weight for Ranking:** 1.0

Satisfies as a requirement for Economics

Students will dive into an exciting exploration of how economics and war connect in intriguing ways! This course takes you on a journey through the use of economic strategies like aid, sanctions, "trade wars," and financial controls. You'll discover how these tools fit into a broader plan to reach important goals during conflicts. We'll discuss the key players—like the US and other governments—who use economic methods to support military efforts. You'll gain insight into how war impacts the economy of countries involved, such as Iraq, Syria, and Afghanistan, as well as the effects on U.S. government spending and the overall economy.

In addition, we'll examine the role of contractors and private military security companies, along with the challenges posed by corruption in wartime economics. While we'll look at some historical examples, a lot of our focus will be on the economic strategies used in modern conflicts in Iraq, Syria, and Afghanistan, and we'll even think about what might happen in future wars.

Get ready to uncover the powerful relationship between economics and warfare in today's world!

Course Title: The Modern President

Grades: 10, 11 and 12

This course will be offered on D.L.

Credits: 0.5 credit – half-year class

Prerequisites: *None*Weight for Ranking: 1.0

Satisfies as a requirement for Participation in Government

This course will take you on an exciting journey through the American political system, especially focusing on the executive branch of the U.S. Government. We will explore how modern presidents make decisions during crises and compare their leadership styles. From Ronald Reagan to Donald J. Trump, we will dive into their foreign policy choices and how these impact issues like terrorism, war, the economy, and governance. You will gain an insider's view of how significant events shape policies in the White House, both for foreign and domestic affairs. We will discuss America's evolving role in a fast-paced world, highlighting how modern technology, the non-stop news cycle, and globalization

influence the presidency. Additionally, we'll look into the important roles of key White House staff members and how their responsibilities have grown in the governing process. You will learn about the intricate details of staffing thousands of federal positions, including the U.S. Senate confirmation process, making this journey not only informative but also engaging and relevant for your understanding of today's political landscape. Join us to uncover the dynamic and impactful world of U.S. politics!

SPECIAL EDUCATION

Middleburgh Central School offers the continuum of Special Education services. These services are based on individual student needs. For a full description of options see the school website. If you have any questions, ask your school counselor and call the Special Education Office.

TECHNOLOGY

Course Title: Career and Technology Education Exploration 7 (CTE Exploration 7)

Grade: 7 Technology

This course will be offered every year.

Credits: .25 credit
Prerequisite: None

Weight for Ranking: N/A

Description: CTE Exploration 7 consists of 40 weeks divided between Technology, Family and Consumer Science, Agriculture and Business.

Seventh grade Technology is an introduction that consists of multiple modules related to all aspects of technology and technological equipment and systems. The students will learn how technology has evolved through the years and has influenced some of the latest technological advances. The students will work independently and in groups to research a NASA space mission. They will present how the mission has changed technology and set the stage for future innovations and space missions. They will also learn the physics associated with the design and function of a rocket. They will use this knowledge to design and build a scaled bottle rocket using the Jr. High machine shop and drafting lab. The students will also evaluate and test their design at our annual Technopalooza Expo in June.

Seventh grade Family and Consumer Science is designed to cover basic knowledge and skills in the areas of proper etiquette, food preparation, food safety, nutrition and wellness, and shopping for food. Throughout the course, students will be exposed to various careers in the food industry.

The business portion of CTE 7 will focus on keyboarding, and many aspects of the internet including security, networking and search engines. Students will also start to learn how to use Microsoft Office 365 and will complete several units on personal accounting and budgeting.

Requirements this course fulfills: NYSED Jr. High requirement.

Course Title: Career and Technology Education Exploration 8 (CTE Exploration 8)

Grade: 8 Technology

This course will be offered every year.

Credits: .25 credit
Prerequisite: None

Weight for Ranking: N/A

Description: CTE Exploration 8 consists of 30 weeks divided between Technology, Family and Consumer Science and Business.

Eighth grade Technology reinforces the topics and skills that were introduced in seventh grade technology. The students will be certified in the operation of the Jr. High machine shop and computer labs. The students will research and choose a presentation format for a famous inventor that they are given. They will study how their inventions and innovations have enhanced technology and help predict what technological advances are in our future. The students will use the CAD and drafting lab to design a CO2 dragster, then build the dragster in the machine shop. Topics such as material selection, machine operation and maintenance, hand machining and sanding techniques, paint preparation and graphics will all be addressed as well as the use of our 3D printers and vinyl-cutting machine. The students will also evaluate and test their design at our annual Technopalooza Expo in June.

Students will also be given an opportunity to acquire and practice consumer skills as they relate to clothing and textiles, as they learn the basics of maintaining a wardrobe, sewing safety, sewing basic hand stitches and buttons, and operation of a sewing machine. Child development will encompass the ages and stages of child development, developmental safety concerns within the home, child care basics and interaction with parenting simulators both in and out of the classroom. Students will also get an introductory view of interior design elements and components and incorporate this knowledge in a hands-on project. Throughout the course, students will be exposed to various careers in sewing, child care and development and housing and textiles.

The business portion of CTE 8 will combine personal resource management with career instruction, and is designed to introduce students to the realities of the working world. The material will help students develop progressive skills and behavior that will help them integrate their roles with the

workplace, home and community. Students will learn job-hunting techniques and on-the-job skills. Students will rely on their math knowledge to help them prepare budgets and balance checkbooks. Keyboarding will also be involved as students learn the correct ways to format resumes and other business documents. Students will also work on public speaking, a very important skill. Students will spend time looking at their own personalities and figure out what it is they are really interested in.

Requirements this course fulfills: NYSED Jr. High requirement.

Course Title: Design and Drawing for Production (DDP)

Grades: 9-12

This course will be offered every year.

Credits: *1 credit – full-year class.*

Prerequisite: *None*

Weight for Ranking: 1.00

Description: Design & Drawing for Production is a 1 credit 40-week course, which will provide students with basic knowledge about mechanical drawing. The topics covered will enable students to comprehend the need for technical drawings and their importance in today's technological world. Through "hands-on" learning activities, students will gain useful experience in mechanical drafting techniques, and practices. This course will develop proficiency in technical drawing by exposing them to advanced drawing techniques, equipment and software. The first 10 weeks of the course will focus on hand drawing techniques. The last 30-weeks of the course will explore the uses of AutoCAD and Inventor, ONSHAPE as tools for drawing and designing. AutoCAD is 2-dimensional drafting software, used by professionals in the engineering and architectural fields. Inventor & ONSHAPE is state-of-the art solid modeling software, used worldwide as a tool for design and engineering professionals. These software applications will allow students to design, draw and analyze components and assemblies on the computer in a virtual-reality environment. This class will be used as a stepping-stone for future courses. Student projects and portfolios will be displayed at Technopalooza in June.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement. It can also be used to fulfill the art /music graduation requirement and can be used for a five credit technology sequence.

Course Title: Career and Technical Exploration - High School

Grades: 10-12

This course will be offered every year and as an independent study in 12th grade.

Credits: 1 credit – full-year class

Prerequisite: *DDP*

Weight for Ranking: 1.05

Description: Open to students in grades 10-12 who have successfully completed Design and Drawing for Production. This course provides applied experiences in assorted trade and construction techniques necessary in the development of residential and manufacturing construction projects. This class will be broken into three components. Component one will focus on a variety of classroom and hands-on activities including an introduction into the basic home construction trades of architecture, electrical, plumbing, surveying, masonry, and carpentry. The second component will focus on manufacturing trades including wood shop tools, welding, metal shop tools, manufacturing processes, jigs and fixtures. Topics in wood characteristics, metallurgy, and plastics will be discussed throughout the year. The third component of this class will be an independent exploration into one or more of these trades culminating with a student portfolio and presentation. Eleventh and twelfth grade students may take this course as an independent study and work as a student mentor in the classroom, building upon the skills learned in their first successful completion of the course.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement and can be used for a five credit technology sequence.

Course Title: CAD/CAM & 3D Replication - CIHS (SUNY Cobleskill)

Grades: 10-12 *Offered even years*

Credits: 1 credit – full-year class (3 college credits)

Prerequisite: *DDP*Weight for Rank: 1.05

Description: This course provides advanced and applied experiences on the topics that were discussed in Design and Drawing for Production, using new techniques and multiple solid modeling software packages. Students will learn 3-dimensional drafting techniques with AutoDESK Inventor and Solidworks. These software packages will allow you to design, draw and analyze components and assemblies on the computer in a virtual-reality environment. Students will also learn how Solidworks and AutoCAD can be used in conjunction with MasterCAM to generate computer automated CODE that is used by the TechnoCNC machine. Parts can also be printed on a 3D printer or cut on our Vinyl Machine. This course will consist of a variety of classroom and hands-on activities. This course is offered through an articulation agreement with SUNY Cobleskill and their 3D Manufacturing Program. Topics to be discussed include computer controlled programming, remote control systems, GPS data collection, Drone automation, robotics, manufacturing and machine jigs and fixtures.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement, can be used for a five credit technology sequence and students may earn college credit.

Course Title: Architecture (ARCH)

This course will be offered as an independent study in 12th grade for the 202 SY.

Credits: 1 credit - full-year class

Prerequisite: Successful completion of DDP or by permission of the instructor

Weight for ranking: 1.03

Description: The prerequisite for this course is a successful completion of DDP or by permission of the instructor. Architectural Drawing is a 1 credit 40-week course, intended to teach students the fundamental skills and knowledge necessary for architectural planning, designing, and drafting of residential buildings. This course is designed to show students how to prepare architectural drawings that will effectively and accurately communicate ideas and designs to clients, sub-contractors, and construction workers. Topics to be discussed will include the history of architecture, architectural styles, proper drawing techniques, room planning, aesthetics, and blueprint reading. Each student will design a floor plan for a residential dwelling, using AutoCAD Architectural Desktop and Chief Architect X4. Major projects will include a design for an entire structure, as well as developing a scale model of the design, using a 3D Printer and CNC machine. The blueprints and scale model they create will be displayed at Technopalooza in June.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement and can be used for a five credit technology sequence.

Course Title: Principles of Engineering & Math (POE)

This course will be offered as an independent study in 12th grade for the 2023-2024 SY.

Credits: 1 credit - full year class

Prerequisite: CAD/CAM
Weight for Ranking: 1.03

Description: Open to grades 10-12. The prerequisite for this course is a successful completion of CAD/CAM. Principles of Engineering is a 1 credit 40-week advanced course, intended for the student interested in the engineering field. This course will provide the student with the basic knowledge about the field of engineering and will be presented through the use of case studies. These case studies will concentrate on the following five areas; hydraulics, structures, robotics, communications, and computer control. The case study approach will allow the student to solve problems using the same techniques used by engineering firms. The skills that will be developed through the completion of assigned tasks and projects are: communication skills, technical writing, uses of technical tools, uses of computer drawing and machining equipment, and the measurement and application of both mathematics and science. The students will use the entire metal / woodworking machine shop, as well

as the 3D printers and CNC machine to develop product prototype solutions. The projects will be exhibited at the annual Technopalooza Event in June.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement and can be used for a technology sequence OR *students may use it as a third unit of math to meet the graduation requirement.*

Course Title: Manufacturing Systems

Grades: 11-12

This course will be offered as needed in the future.

Credits: 1 credit

Prerequisite: CAD/CAM Weight for Ranking: 1.05

Description: The prerequisite for this course is a successful completion of CAD/CAM. This is a 1 credit, 40-week course designed to teach students the business, manufacturing, and marketing techniques associated with product producing companies. During the course of the year the class will develop a company with executive officers, choose a product to market, construct the product and market the product that is produced. Importance of company officers and proper business techniques will be discussed along with the balancing of company funds and stockholder profits. The students will develop techniques associated with the machining of raw materials into useable products using a CNC machine, Thermoforming Machine, wood and metal working equipment. Impacts of the economy, society, and the environment will all be discussed.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement and can be used for a technology sequence.

Course Title: Materials Processing

Grades: 10-12

This course will be offered as needed in the future.

Credits: 1 credit - full-year class

Prerequisite: Successful completion of DDP or by permission of the instructor

Weight for ranking: 1.03

Description: This course is designed to teach students the design, manufacturing and finishing techniques associated with assembly of products in materials processing companies. The students will develop techniques associated with the machining of raw materials into usable products. Impacts of the economy, society, and the environment will all be discussed. The course is designed to offer students a broad view of how humans change materials to satisfy their needs. Areas to be discussed in modules will include metals, woods, polymers, and composites. Students will learn through

instructional lessons, demonstrations and laboratory activities. Each student will complete a three-week project in each of the three modules.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement and can be used for a technology sequence.

Course Title: TV Studio Production I (TV1)

Grades: 9-12

This course will be offered as needed in the future.

Credits: 1 credit - full-year class

Prerequisite: *None*

Weight for Ranking: 1.00

Description: There is no prerequisite for this course. Television Media Production is a 40-week course for students interested in the video/television production industry. Topics to be covered will include camera operation, sound and video editing, video software, green screen technology, storyboarding, and journalism. The students will learn the basic and detailed operation of video equipment including the maintenance and care for the equipment. Students will gather all of their projects into a digital portfolio of their work. The portfolio will be used as a major portion of their grade. The class will be responsible for filming morning news broadcasts for the entire school, and also supply material to be aired on PUBLIC access channels. Each student will need to have a signed permission slip for a parent/guardian in order to participate in this class.

Requirements this course fulfills: This course can be used as an elective towards the graduation requirement and can be used for a technology sequence.