



MORAVIA
CENTRAL SCHOOL DISTRICT

2023-2024

Course Description Book

Moravia High School

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Agriculture

FFA

FFA is an important and integral part of each program in Agricultural Education. Membership in FFA and participation in FFA awards programs is strongly encouraged.

Leadership Development

Credits: ½ (Government)

Length: 20 weeks

Prerequisite: FFA officers receiving credit for Government may enroll

Course Description: Open to students in grade 12 who are interested in developing leadership skills.

Students are required to be an FFA officer unless permission is granted by the instructor.

This course is designed to provide students the opportunity to develop leadership skills. Students will gain experience in Public Speaking, Parliamentary procedure and working on committees. Students will participate in community service projects and learn more about how our government system works.

Agriculture Mechanics

Credits: 1

Length: 40 weeks

Prerequisite: Open to students grades 9-12

Course Description: This is a year-long course which is designed to introduce the student to basic shop skills necessary to develop a well rounded agricultural mechanics program. Topics include: measurement, woodworking, residential electric, power tools, welding, metal working, and small engines. Throughout the course, students will be graded on participation in intracurricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience program.

Advanced Agriculture Mechanics

Credits: 1

Length: 40 weeks

Prerequisite: Open to students grades 10-12 who have successfully completed the Agriculture Mechanics course.

Course Description: This is a year-long course designed to further develop skills built in the beginning Agriculture Mechanics course while focusing on skills and knowledge needed for a career in welding or fabrication. Topics include: measurement, power tools, welding (SMAW and MIG), plasma cutting, and project building. Throughout the course students will be graded on participation in intracurricular FFA activities as well as the development and maintenance of an ongoing Supervised Agricultural Experience program.

Food Science

Credits: 1 credit (Science)

Length: 40 weeks

Prerequisite: Open to students grades 11-12. It is strongly recommended that students take Chemistry prior to this course.

Course Description: What science do you have AT LEAST 3 times a day? From farm to table, in this year-long class, students will have the opportunity to learn about how food is raised, but more specifically discover the requirements of how to prepare and serve food. Curriculum will revolve largely around both fresh and processed food quality. Course units include food safety, regulations, processing, preservation, product development, and nutrition. Was it mentioned that this course is about FOOD?! The basic concepts and principles of this course will largely be based in the sciences. Students are expected to have taken **Chemistry, or an equivalent course**, prior to enrolling. This course will be largely performance based.

Pre-Veterinary Science

Credits: 1 credit (Science)

Length: 40 weeks

Prerequisite: Open to students grades 10-12 who have successfully completed Animal Science course.

Course Description: Have you ever thought about being a vet? Do you like caring for others and your pets at home? This is a year-long science course intended to follow the successful completion of Animal Science. This course will provide hands-on experience in animal care combined with academic work in the applied biological sciences and math. Students will develop communication, problem-solving, and critical thinking skills as they complete independent research and apply their learning to animal care projects. This course is appropriate as an elective for students interested in exploring the field of veterinary medicine, agriculture, or public health at the collegiate level. Topics include animal handling, safety and sanitation, veterinary terminology, anatomy, physiology and nutrition, parasitology, understanding zoonotic diseases and their prevention, and exploring animal science-related careers.

Animal Science

Credits: 1`credit (Science)

Length: 40 weeks

Prerequisite: Open to students grades 9-12

Course Description: Do you have animals? Are you a carnivore? Do you care about your pets as much as your siblings? Animal Science is a course intended to introduce students to the basic science and biology of animals. Students will gain a general understanding of Animal Science through the study of Animal Production. An emphasis will be placed on the following topic areas: reproduction, genetics, digestion, nutrition, animal rights, animal welfare, and animal behavior. Students should be prepared to work directly with animals and care for animals as part of required coursework. There are no prerequisites for this course, however, this course must be taken prior to taking Pre-Vet Science.

Greenhouse and Nursery Management

Credits: ½ credit (Science)

Length: 20 weeks

Prerequisite: Open to students grades 9-12. Successful completion of Horticulture course is strongly recommended.

Course Description: This ½ year elective course will focus on ornamental plants. Students will gain knowledge of plant propagation, general plant care, greenhouse management, landscape design, and customer sales and service. Students will be responsible for caring for plants on a regular basis including plants in the greenhouse as well as the various gardens around the school grounds. Students will also have the

opportunity to design and create a landscape design of their choice. Taking Horticulture is strongly recommended prior to enrolling in this class.

Horticulture

Credits: 1 credit (Science)

Length: 40 weeks

Prerequisite: Open to students grades 9-12

Course Description: This course will cover many areas of the plant world. Students will gain knowledge in plants, soil science, basic floral design, plant propagation, landscape design, trees, shrubs, customer sales, and service. Students will be responsible for designing and completing a major landscape design. Students will be responsible for the care of the gardens at the high school and elementary school.

Environmental Science

Credits: 1 credit (Science)

Length: 40 weeks

Prerequisite: Open to students grades 11-12

Course Description: Do you like to go outside? Do you care about the environment and your effect on the space around you? This course is for you! This science course is an introduction to ecology, forestry, environmentalism and wildlife management. Topics include local tree identification, habitat restoration, pollution, agroforestry, population restoration, and careers. This is a hands-on course where students will be actively working in the school's land lab. Students will be assessed on problem based assignments and projects.

Dairy Science

Credits: ½ credit (Science)

Length: 20 weeks

Prerequisite: Open to students grades 9-12

Course Description: This course will cover the components of the dairy industry. Topics about dairy production, dairy judging, products, nutrition, herd management, animal health, and various breeds. Students interested in learning more about the practices of the dairy industry should enroll in this course.

Agriculture Science and Technology

Credits: ½ credit (Science)

Length: 20 weeks

Prerequisite: Open to students grades 9-12

Course Description: This course provides instruction in the foundations of the various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science, and agricultural mechanics skills will be the focus of the curriculum. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA. Students will receive personal guidance and counseling with preparatory instructional program selection. Students interested in advancing their supervised agricultural experience (SAE) and developing an agricultural science fair project should enroll in this course.

Agriculture, Food and Natural Resources (AFNR)

Credits: 1 credit (Science)

Length: 40 weeks

Prerequisite: Open to first year agricultural students

Course Description: Students participating in this course experience hands-on activities, projects, and problems. Student experiences involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics. While surveying the opportunities available in agriculture and natural resources, students learn to solve problems, conduct research, analyze data, work in teams, and take responsibility for their work, actions, and learning. The course is structured to enable all students to experience an overview of the fields of agricultural science and natural resources so that students may continue through a sequence of courses throughout high school.

Agribusiness & Entrepreneurship

Credits: ½ credit (Economics)

Length: 20 weeks

Prerequisite: Open to students grades 9-12

Course Description: Small business is the backbone of the American economy. Agribusiness & Entrepreneurship is the core class for the Agribusiness Pathway.

Financial success in business operations often depends upon the managerial skills of the individual owner/operator. Agribusiness & Entrepreneurship is designed to give students a background in the decision making process and day-to-day financial management skills required to effectively operate a business. Through exploring business types, economics, marketing, and business planning management, students will be introduced to business communications, along with ethics & social responsibility. Students will begin to develop a business plan where they will learn about financing, recordkeeping, accounting, staffing, taxes and government regulations (all necessary for the protection of their businesses). Students then move into marketing, investigating how to persuade others to buy their products and services, and learning how to manage an existing business.

Ag in Art

Credits: ½ credit (Art)

Length: 20 weeks

Prerequisite: Open to students grades 9-12

Course Description: This course will cover a wide variety of topics and artistic techniques. Have you ever made a barn quilt or put your food into art? In this course, you will investigate the visual resources of the science and practice that sustains human life: agriculture. The entirety of this course will be project based.

Floriculture (Floral Design)

Credits: ½ credit (Art)

Length: 20 weeks

Prerequisite: Open to students grades 9-12

Course Description: Throughout this course, students will demonstrate an understanding of the principles and elements of floral design. Students will prepare flowers and plants for floral arrangements. In addition, students will prepare floral arrangements for special occasions using the principles and elements of design, such as designing single flower boutonnières to multiple flower arrangements. It will also give students a hands-on opportunity to use their own creativity and artistic abilities in preparing their principles and elements of design. In addition, students will become more familiar with the different aspects in the floral design industry.

Art

Intro to Studio in Art 2D

Credits: ½ credit

Length: 20 weeks

Prerequisite: Open to students in grades 9-12. This class satisfies ½ humanity requirement for graduation. It is preferable to take this course and studio art 3D in 9th grade if a sequence in Art is desired.

Course Description: Studio in Art is the NYS foundation course in the Visual Arts. Students are exposed to some of the more complex issues of art and art history which continues in the higher-level courses. This class involves a continuing process of providing students with opportunities to develop a basic background in the arts including creative problem-solving skills and exposing them to the possibilities of art as a tool of self-expression. This class is geared toward a wide range of artistic abilities.

The units of study include 2-dimensional design, drawing, painting, digital arts, and art history. Students learn the language of art and art techniques within an art history framework whenever possible. Art history is geared to help students realize that some art techniques have evolved to higher levels, that there are many different factors that influence individual artists, and that there are sometimes specific reasons why certain art movements occurred.

Intro to Studio in Art 3D

Credits: ½ credit

Length: 20 weeks

Prerequisite: Open to students in grades 9-12. This class satisfies ½ humanity requirement for graduation. It is preferable to take this course and studio art 2D in 9th grade if a sequence in Art is desired.

Course Description: Studio in Art is the NYS foundation course in the Visual Arts. This is a transition class in which students continue to practice and improve their understanding and skills. Students are exposed to some of the more complex issues of art and art history which continues in the higher-level courses. This class involves a continuing process of providing students with opportunities to develop a basic background in the arts including creative problem-solving skills and exposing them to the possibilities of art as a tool of self-expression. This class is geared toward a wide range of artistic abilities.

The units of study include 3-dimensional design, pottery, digital arts, sculpture, printmaking, and art history. Students learn the language of art and art techniques

within an art history framework whenever possible. Art history is geared to help students realize that some art techniques have evolved to higher levels, that there are many different factors that influence individual artists, and that there are sometimes specific reasons why certain art movements occurred.

Advanced Art

Credits: 1

Length: 40 weeks

Prerequisite: Successful completion of Studio Art

Course Description: Advanced Art is an extension to Studio Art. We continue to work with design, drawing, painting, and art history. Concentration is on using the foundations of design and history developed in the previous courses to further knowledge and expertise in drawing and creativity. Creative solutions to standard problems are preferred over traditional solutions. The Advanced Art course will allow students the opportunity to better decide if they want to pursue Advanced Placement Art.

Advanced Placement Studio Art

Credits: 1

Length: 40 weeks

Prerequisite: Five piece portfolio, Short written piece documenting the student's purpose for taking the course and understanding of "college level" and the amount of required work to be done at home, K-12 Art Faculty Review including portfolio, self motivation/discipline, and artistic potential. The Art Department will individually review exceptions.

Course Description: Advanced Placement Art is a college level course. This course is designed as a two year course. The end result is a portfolio of drawings consisting of three different sections: The submission of a portfolio is a requirement of the course.

1. **Quality** –5 pieces – any original artwork considered drawing. This work should be excellent.
2. **Breadth** – 12 slides – Evidence of ability to work on a wide range of drawing problems.
3. **Concentration** – 12 slides – Pursuit of a single concern in depth. A written commentary accompanies this area.

This portfolio will be judged by a Board of Examiners and graded. A grade of four or five on a scale of one to five will receive three college credits at most institutions in this country.

The student electing to take this course should be a serious art student willing to devote a great deal of time and effort. Typically this student is interested in art and is going on to college. He/She is interested in receiving up to six college credits, applicable at most colleges in the U.S. Or he/she is interested in pursuing a career in art and will need this portfolio to gain entrance to a quality college of art.

Crafts

Credits: ½

Length: 40 weeks

Prerequisite: Successful completion of Studio Art

Course Description: This course is designed for students who wish to learn a variety of crafts. In the Crafts Class students will develop an appreciation for hand craftsmanship by exploring various techniques used by cultures around the world, and discovering how those crafts are made. Students will get to experience working with a variety of art mediums such as paint, clay, fabric, metal, ink, and yarn, while also learning good studio habits. This class will improve hand-eye coordination skills as well as decision making since students will need to consider design elements and aesthetic attributes to improve their art.

Desktop Publishing

Credits: ½ credit

Length: 40 weeks

Students will be responsible for the production, design, and publication of the school yearbook. This production based course requires both in class and after school time. Students must be present at activities and sports events, conduct interviews and sell business ads. This is a wonderful opportunity for members of the team to exercise their creativity, while developing skills that include writing copy, captions and headlines; digital photography; desktop publishing and using appropriate technology tools for media production. Creating the yearbook is a fun process and the end result of all the effort is a product the students can be proud of.

Intro to Digital Art

Credits: ½ credit

Length: 20 weeks

Course Description: Through lectures, demonstrations, tests, and a variety of projects the students will explore a wide range of digital art applications. Digital Imaging courses explore the creative and conceptual aspects of designing and producing digital imagery, graphics, and photography. Students study techniques, genres, and styles from various mediums and forms. Topics may include the development of ideas, application of tools and technology; composing, capturing, processing, and programming of imagery and graphic information; their transmission, distribution, and marketing; and contextual, cultural, and historical considerations.

CCC Computer Graphic Design

Credits: ½

Length: 20 weeks

Prerequisite: Intro to Digital Art

Course Description: The studio course introduces the basic vector techniques of digital painting and imaging primarily using Adobe Illustrator. Students will create original imagery using Illustrator, input imagery created in another medium, and manipulate photographic imagery. Students will learn to use Illustrator and Adobe Photoshop in collaboration to create digital imagery. The student will link artwork created to the Elements of Principles and Design.

Course Objectives: Students will be able to:

- Use a digital camera and scanner
- Identify and use the tools in Adobe Illustrator
- Prepare image files to be used for monitor display or printing on a variety of print output devices
- Use the principles and elements of art to create aesthetically aware images.
- Constructively engage in positive critique sessions.
- Display basic knowledge of various aspects of Adobe Illustrator through a number of hands-on projects.
- Effectively use Adobe Illustrator with Adobe Photoshop and Adobe InDesign to create designs.

Digital Photography

Credits: ½ credit

Length: 20 weeks

Prerequisite: Studio Art 2D or 3D

Course Description: Through lectures, demonstrations, tests, and hands-on projects the students will learn all aspects of digital photography. They will learn how to operate a digital camera and all of its functions. They will learn and work with studio lighting, as well as enhancing and altering photos on the computer. Projects will include documentary, portraiture, commercial, and fine art photography.

- **Recommended** to have your own digital camera but not a necessity.
- Time outside of class will be required for taking photos.

CCC Photoshop and Advanced Photography

Credits: ½

Length: 20 weeks

Prerequisite: Intro to digital art or digital photography

- Recommended to have your own digital camera.
- Time outside of class will be required for taking photos.

Course Description: Lectures, demonstrations, and hands-on activities will enable students to discover the basic theory and application of Adobe Photoshop. Students will complete a series of aesthetically inspired assignments pertaining to captured images, processing, and manipulating digital images. Images will be displayed using a computer monitor or outputted to a printer for critique.

Course Objectives:

Students will be able to:

- Use a digital Camera and Scanner
- Identify and use the tools in Adobe Photoshop
- Prepare image files to be used for monitor display or printing on a variety of print output devices
- Use the principles and elements of art to create aesthetically aware images.
- Constructively engage in positive critique sessions

Digital Video Production

Credits: 1

Length: 40 weeks

Prerequisite: Preference will be given to Art majors and Drama Majors and/or teacher recommendation.

Course Description: The course provides an opportunity for students to have authentic broadcasting experience including planning, developing stories, interviewing, taping and editing footage – all skills to prepare students for the experience they may encounter after high school. Periodically throughout the year, students will produce a News Show called “The Blue Devil Broadcast” in which they highlight various events happening in the Moravia School District.

Pottery

Credits: ½

Length: 20 weeks

Prerequisite: Open to students in grades 10-12. Beneficial if student has taken Studio Art

Course Description: This is a messy yet fun hands-on learning class where students will become familiarized with the process of creating ceramic artwork. In this course, students will learn different techniques which include wheel throwing, slab method, coiling method, pinching method, and glazing. Along with these different methods, students will be introduced to the different tools and glazes used in pottery. The history and process of clay/ceramics will also be taught during this course. By the end of the course, students will have a wide variety of both functional and decorative pieces to take home as well as a love for making pottery!

Advanced Pottery

Credits: ½

Length: 20 weeks

Prerequisite: Open to students in grades 10-12. Students must have completed Pottery 1

Course Description: This is a more advanced course in pottery making after being introduced to the different techniques used in pottery the year before. After mastering throwing, pinching, slabs, and coiling, students will begin to make larger, more difficult pieces of pottery. In this course, students will be given the task to create multiple piece

projects as well as make series (sets) of their pottery. Students will be introduced to new styles of pottery as well as be encouraged to use stricter vocabulary that relates to the creation and function of pottery. This year, new advanced tools are accessible which will allow students to create larger pieces than the year before. The year will be broken into two different sections. The first half of the year, we will look into the ergonomics of pottery. For the second half of the year, we will work in the “Art for Arts sake” style of pottery. At the end of the year, students will have a full portfolio that shows their true talents in pottery making.

Printmaking

Credits: ½

Length: 20 weeks

Prerequisite: Successful completion of Studio Art

Course Description: Students will learn techniques of fine art printmaking such as relief printing, monotype, intaglio, collagraph and collage while incorporating the elements and principles of art. The goal of this course is for students to gain the skills and confidence to produce multiple images while exploring personal visual expression. Hand printmaking techniques will engage students with problem solving in drawing, design and color. Class activities are project based giving students an opportunity to practice art fundamentals while learning technical skills in Printmaking.

Studio in Sculpture

Credits: ½ credit

Length: 20 weeks

Prerequisite: Studio Art 3D

Course Description: Sculpture courses promote the expression of ideas through three-dimensional works. Students explore representational and abstract sculpture through subtractive (carving), additive (modeling), and assemblage techniques in one or more media. A study of historical and contemporary sculpture and sculptors from a worldwide perspective, and instruction and practice in the critique process are addressed.

Business

Students interested in learning more about business and finance have the opportunity to try one class or acquire a Business Administration Pathway. The purpose of the pathway is to prepare students for employment and post-secondary study.

Business Administration Pathway (3.5 credits)

| Required Courses | Additional Courses |
|-------------------------------|----------------------------------|
| Career & Financial Management | Introduction to Personal Finance |
| CCC Principles of Business | Personal Finance |
| CCC Accounting | Career Exploration |

Recommended Sequence:

| | |
|----|--|
| 9 | Career & Financial Management |
| 10 | Introduction to Personal Finance CCC Principles of Business |
| 11 | Personal Finance |
| 12 | CCC Accounting Career Exploration |

Career & Financial Management

Credits: 1/2

Length: 20 weeks

Prerequisite: Open to students in grades 9-10.

Course Description: Do you like money? Would you like to learn how to invest your money? This project-based financial literacy course develops student understanding in such areas as economic decision-making, banking (checking, savings accounts, credit cards, and loans), saving, budgeting, and investing. Students acquire an understanding and appreciation of the need for personal financial management and investing. To encourage immediate implementation of financial management skills, this course utilizes an on-going project for course delivery and reinforcement. The course content is sequenced for students to develop a full understanding of their role and responsibility in their financial future. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. In addition,

students learn to prepare a resume, job application and cover letter as well as how to interview. This course is a required part of a business sequence.

CCC Principles of Business (3 College Credits)

Credits: 1

Length: 40 weeks

Prerequisite: Open to students in grades 10-12.

Course Description: Would you like to earn 3 college credits through CCC (Cayuga Community College)? Do you plan on studying business in college or owning a business one day? If so, this course is for you! This project-based business course develops student understanding and skills in such areas as business law, economics, financial analysis, human resources management, information management, marketing, operations, and strategic management. Through the use of three projects, students acquire an understanding and appreciation of the business world. They conduct an environmental scan of the local business community and investigate their business activities. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Formal reflection is an on-going component of the course.

CCC Accounting (4 college credits)

Credits: 1 (may be used towards a 3rd math credit for graduation)

Length: 40 weeks

Prerequisite: Open to students in grades 11-12.

Course Description: Would you like to earn 4 college credits through CCC (Cayuga Community College)? Do you plan on studying business in college or owning a business one day? If so, this course is highly recommended for you! This is the first of a two course sequence in accounting required by all business majors including marketing, management, and finance. Students will create a business of their choice and process transactions through the entire accounting cycle. They will also be introduced to computerized accounting and will use a computer to process a variety of transactions and financial statements.

Introduction to Personal Finance

Credits: 1

Length: 40 weeks

Prerequisite: Successful completion of Algebra 1 (graduation requirement)

Course Description: This course prepares students for financial success in the future. Students will learn financial literacy by navigating the complex world of personal finance (budgeting, counting money, earning an income, checking & savings accounts, comparison shopping, credit cards, vehicle transportation, housing costs, and insurance).

Personal Finance

Credits: 1 (may be used towards a 3rd math credit or Economics credit)

Length: 40 weeks

Prerequisite: Successful completion of Algebra I Regents Exam or teacher's recommendation.

Course Description: In this project-based class, students will participate in a robust classroom economy through Stash101, an immersive banking and investing simulation. Students will learn financial literacy by navigating the complex world of personal finance—budgeting, paying bills, earning an income, saving, investing, and more. Through project-based learning, students experience a safe space to explore real-world financial situations and practice informed decision-making around money. In addition, students will participate in online competitions including the Stock Market Game and Virtual Personal Finance Simulation.

Career Exploration

Credits: ½ - 1 credit

Length: 20 - 40 weeks

Prerequisite: Open to students grades 11 & 12

Are you interested in an internship, community service, or job shadowing? If so, this class is for you! Career exploration focuses on activities that help students develop a general awareness of themselves, the world of work, and the application of academic concepts. These activities provide an opportunity for examination of career options that match each student's interests and aptitudes. Students will have an opportunity to observe and interact with professionals in the workplace to learn more about the

demands and rewards of a career they are interested in. Students will choose which type of WBL (Work Based Learning) experience they would like to explore and will submit a proposal for approval. The WBL experience may include the following activities:

- Job shadowing
- Community service/volunteering
- Career-focused research projects
- School-based enterprises
- Entrepreneurship
- Career Exploration Internship

Driver Education

Driver Education - Summer

Credits: ½

Length: 6 weeks - Summer

Prerequisite: 16 years old as of July 1st of the year you are taking the course; first time enrolled in class; physically able to drive a car safely (e.g. eyesight and use of body limbs). Parental permission required.

Course Description: The course is divided into two sections: lecture and driving. The student must obtain a minimum passing grade of 65 *in each section* and pass the final exam to receive a blue card. Class work involves reading, discussion, presentations, tests, films, and guest lecturers. Laws of the road, the driver's manual, and current problems are all discussed to make the students more aware, alert, and competent. Car work involves four students with the instructor, grouped to work on fundamental driving maneuvers and driving situations.

Attendance Policy: New York State requires 24 hours of classroom instruction, and 24 hours of in car instruction (6 hours of actual driving, 18 hours of observation).

Work Requirements: Daily reading assignments, an individual or small group project and chapter tests. Extra driving practice outside of class is recommended.

Upon Completion: To receive a Blue Card MV-285, the student must pass the classroom phase, in-car instruction phase and pass the final exam. This allows the student at age 17 to register for a night driving license if they already have a license. It also provides for lower insurance rates. For non-licensed drivers, a yellow slip is available after the third week of the course. A student failing one of the two sections of the course, but who has an overall grade of 65 – will receive ½ school credit.

English

English 9

Credits: 1

Length: 40 weeks

Prerequisite: none

Course Description: This course is a survey of literature by authors from around the world. The reading will focus on three genres of literature: fiction, nonfiction, and drama, with additional poetry readings interspersed throughout. In addition, the course will investigate many different writing styles including but not limited to personal narrative, creative, persuasive, analytical and research. The main focus will be improving writing skills, with an emphasis on critical thinking and close reading. Students will enhance their grammar and vocabulary skills as well as have opportunities for choice based independent reading. Summer reading is required.

English 10

Credits: 1

Length: 40 weeks

Prerequisite: none

Course Description: English 10 continues to build students' skills of reading, writing, speaking, and listening according to the New York State Next Generation Learning Standards. Self-directed independent reading and writing practice are core to daily classroom activities. Students will ask complex questions and think critically about texts, content, and discussions. To expand their perspectives promoting empathy and social action, students will connect with and respond to texts to learn how to evaluate them for validity and quality. Through these lenses, students will learn to assess/challenge/modify their beliefs by viewing/analyzing the world from different perspectives. Summer reading is required.

English 11

Credits: 1

Length: 40 weeks

Prerequisite: none

Course Description: English 11 Regents presents both English and American literature. The coursework is designed to facilitate mastery of the Common Core State

Standards, the English Regents Exam, and to assist students in becoming better readers, writers, speakers, and thinkers. In addition to literature, composition skills will be emphasized to reinforce and strengthen student writing. Other areas of study include vocabulary, outside reading, speech, and films.

The study of literature is inextricably linked to the development of students' own writing and speaking skills. Students will use close reading, literary analysis, and claim-based arguments as tools to interpret literature and as models to encourage independent thought. Writing exercises, content-specific vocabulary, and implementation of grammatical concepts are incorporated into the course. Students in English 11 will demonstrate the ability to be reflective and work and learn at a pace appropriate to the junior level.

Honors English 9-11

Credits: 1

Length: 40 weeks

Prerequisite: Successful completion of previous year's English course. Students must also meet academic criteria established by the English Department. Recommended for students expecting to enroll in AP English. Summer reading and accompanying assignment is required.

Course Description: These courses focus on the writing process and an in-depth study of literature: short stories, novels, poetry, essays, non-fiction and drama. Students are introduced to critical reading and writing skills necessary for passing the English Regents Exam and for ensuring success in college, as well.

English 11 Honors/AP English Language and Composition

Credits: 1

Length: 40 weeks

Prerequisite: English 10

Course Description: This course serves the dual purposes of preparing students for both the Advanced Placement exam in English Language and Composition and the New York State Common Core Regents exam. The Advanced Placement portion of the curriculum is taken from college level rhetoric courses and includes units on reading and writing narrative, expository, and argumentative essays. In addition, students will complete a research skills unit and learn the terminology necessary for effective rhetorical analysis. The remainder of the curriculum consists of literature and poetry

units that stress recognition of theme and the methods used to convey meaning. Vocabulary acquisition and varied sentence structure are also emphasized.

The study of literature is inextricably linked to the development of students' own writing and speaking skills. Students will use close reading, literary analysis, and claim-based arguments as tools to interpret literature and as models to encourage independent thought. Writing exercises, content-specific vocabulary, and implementation of grammatical concepts are incorporated into the course. Students will demonstrate the ability to be reflective and work and learn at a pace appropriate to that of a collegiate level course.

The Advanced Placement Examination in English Language and Composition may provide successful students with up to 6 college English credits depending on the school a student chooses to attend. Students enrolled in Advanced Placement English are expected to take the Advanced Placement Examination in Language and Composition that is administered in early May of their junior year. There is an AP exam fee. Monies are available to assist those in need. Please see your school counselor.

AP English Literature and Composition / CCC ENGL 101-102

Credits: 1

Length: 40 Weeks

Prerequisites: A grade of 85% or better on the English Regents Exam, a writing sample, and recommendation by members of the English Department.

Course Description: Advanced Placement English Literature and Composition is based upon the curriculum and resources required by The College Board. This program is modeled on the one-year Freshman English Literature and Composition courses commonly taught in colleges. The study of poetry is emphasized, as is the reading of drama and novels. In addition, expository writing on literature is an area of significant focus. Students are expected to have detailed knowledge of the literature they have read in previous courses. The Advanced Placement Examination in Literature and Composition may provide successful students with up to 6 college English credits.

Students enrolled in Advanced Placement English are expected to take the Advanced Placement Examination in Literature and Composition that is administered in early May of their senior year. There is an AP exam fee. Monies are available to assist those in need. Please see your school counselor.

English 12

Credits: 1

Length: 40 weeks

Prerequisite: none

Course Description: This course gives students an opportunity to explore a thematic approach to the universal ideas found in world literature and British literature. Selected fiction, non-fiction, poetry, and drama will be explored using all facets of language arts – listening, speaking, reading, and writing. Areas of emphasis in writing instruction include composing essays in a variety of rhetorical modes, including research writing and literary analysis. Seniors continue developing and fine-tuning their ability to cite thorough textual evidence to support analyses when responding to grade-appropriate complex literary and informational texts in various written and spoken modes.

Young Adult Literature

Credit: ½

Length: 20 Weeks

Course Description: In this course, we will study contemporary young adult literature created by a diverse group of authors across a variety of genres. Through class discussions, creative projects and traditional writing assignments, we will analyze the social, cultural, and media influences of these texts. Students will also have the opportunity to explore social/emotional issues through literature. Students who enroll in this course should be prepared (and excited!) to read several novels as well as articles and other types of media to support our study of the themes and influence of young adult literature.

Media and Information Literacy

Credits: ½

Length: 20 Weeks

Course Description: Through this course, students will look at the role media plays in their lives. We will analyze new and traditional forms of media to determine purpose, bias, credibility, and relevance. We will investigate the effect of misinformation on our society and learn how to consume and create media responsibly. Students who enroll in this course should be prepared to engage in constructive discussions of topics that invite differing opinions.

Creative Writing

Credits: ½

Length: 40 Weeks

Course Description: This course is an elective designed to allow students to advance their creative writing abilities. Students will develop their authentic voice as writers, experimenting with a variety of genres and styles. Strategies will be provided to help students conquer writers' block. They will learn to critique and accept criticism of their work through conferences. Students will edit and revise their writing for professionalism and potential publishing. The course will follow the NYS ELA Next Generation Learning Standards for Reading, Writing, Speaking, and Listening.

Family and Consumer Sciences

Food and Nutrition

Credits: 1

Length: 40 weeks

Prerequisite: Open to all students in grades 10-12

Course Description: This course is an introduction to the basic principles of food preparation and wellness. The focus of this course is nutrition, reading recipes, measuring ingredients, and knife skills. This information will help ensure a safe and healthy learning environment for everyone. Throughout this course students will cook and bake a variety of dishes as well as analyze the nutritional impact on overall health.

International Food

Credits: 1

Length: 40 weeks

Prerequisite: Successful completion of Food and Nutrition

Course Description: International Food introduces students to the ways in which the culture and traditions of regions and countries influence food choices. Students will identify and prepare foods from various regions and countries to compare cuisines, ingredients used, and preferred cooking methods. Students will also examine the issues and conditions which affect the availability and quality of food in the global market.

Textile Design and Production

Credits: ½

Length: 20 weeks

Prerequisite: Family and Consumer Sciences

Course Description: Textile Design and Production offers students the opportunity to expand their skills in fashion design and textile production. Students will learn hand sewing techniques, machine operation, garment design and production. Students will work on a wide variety of projects including the construction of a log cabin quilt and a simple garment. Students will also learn about clothing decisions, fashion, design elements, fibers and fabrics, clothing care, purchasing ready-to-wear, and careers.

Housing and Interior Design

Credits: ½

Length: 20 weeks

Prerequisite: Family and Consumer Sciences

Course Description: In Housing and Interior Design students will investigate how lifestyle, social factors, and stages in the life cycle influence housing decisions. Through hands-on experience, students will discover design elements and principles as they relate to architecture and interior design. The student will explore the exterior and interior design of homes. Interior design options, such as furniture, wall coverings, window treatments, and floor covering will also be discussed.

Foreign Language

Spanish 1

Credits: 1

Length: 40 weeks

Prerequisite: 9th grade or higher

Course Description: Students work to develop the four basic language acquisition skills: listening, speaking, reading, and writing. Students will also learn about the cultures of the Spanish-speaking world. Basic grammar skills are introduced, explained and used. Emphasis is on participation, pronunciation, oral comprehension and enunciation. The present tense of verbs and a variety of vocabulary topics are learned. This class is designed for students who failed the Proficiency Exam in middle school or for transfer students without a foreign language credit. One credit of a foreign language is required to graduate.

Spanish 2

Credits: 1 (Cayuga Community College credit optional)

Length: 40 weeks

Prerequisite: Spanish 1

Course Description: This course is Part I of Checkpoint B of the NYS Foreign Language Syllabus. Students build on skills learned in Spanish 1. The course is a balanced blend of grammar and culture from the Spanish speaking nations of the world. Students are taught in a variety of ways. Students will continue to work on learning the present tense and its progressive form while also learning present progressive, preterite, imperfect, and future tenses. There are many engaging games and activities to assist with the memorization of vocabulary and grammar concepts.

Spanish 3

Credits: 1 (Cayuga Community College credit optional)

Length: 40 weeks

Prerequisite: Spanish 2

Course Description: This course is Part II of Checkpoint B of the NYS Foreign Language Syllabus. The course is a balanced blend of grammar and culture from the Spanish speaking nations of the world. Students are taught in a variety of ways.

Students will build on skills learned in Spanish 1 & 2. They will review the preterite, imperfect, and future tenses while also learning the conditional, present perfect and subjunctive tenses. At this level students are required to read, write and speak more in the target language. There are many engaging games and activities to assist with the memorization of vocabulary and grammar concepts.

Spanish 4

Credits: 1 (Cayuga Community College credit optional)

Length: 40 weeks

Prerequisite: Spanish 3 (Cayuga Community College credit optional)

Course Description: This course is the beginning study of Checkpoint C of the NYS Foreign Language Syllabus. Students explore the use of Spanish in the United States and a theme of “identify” helps students to connect to the language and the different cultures of the Spanish-speaking world through community outreach, culinary experiences, literary projects, and movie reflections. Students at this level work with students in the elementary and middle schools to teach students introductory Spanish vocab and phrases. This course continues to prepare students for college and future jobs. This course focuses on the fine tuning of skills learned in previous years and prepares students for the NYS Seal of Biliteracy.

Spanish 5

Credits: 1 (Cayuga Community College credit optional)

Length: 40 weeks

Prerequisite: Spanish 4

Course Description: This course is the continued study of Checkpoint C of the NYS Foreign Language Syllabus. This course continues to prepare students for college and future jobs. This course focuses on the fine tuning of skills learned in previous years and prepares students for the NYS Seal of Biliteracy. All Seal of Biliteracy work still outstanding at the beginning of this level will be addressed, completed, and practiced in this course. At the intermediate high- advanced- low level students will follow classes conducted with a 90% Spanish fluency. They will improve upon their 4 modes of communication through various listening and speaking activities that encourage them to improve their pronunciation and proficiency through music and videos followed by discussions and written assignments. Students will be expected to write compositions at a more advanced level using evidence from resources provided, personal opinions, and persuasive speech.

All writing assignments will be structured to demonstrate an understanding of all grammatical tenses and level-appropriate vocabulary. We will dive deeper into the subject matter and expand our understanding of each verbal tense and mood with an emphasis on the subjunctive mood. We will read at least two level-appropriate novels and several other articles, short stories, and poems that will show us how the language is used in multiple contexts. Authentic Hispanic literature and articles will be used to explore the history and culture of the Spanish-speaking world. Students will be expected to participate in the target language as much as possible and to actively build upon their understanding and use of it through applications of conversation, debate, circumlocution, and comparative speech.

World Languages New York State Seal of Biliteracy

Credits: Distinction Seal on High School Diploma and Transcript

Length: Project Guidelines Designed to be Completed in 1 Academic Year

Description: The Seal of Biliteracy is a formal recognition of a student's **high level of proficiency** in reading, writing, listening and speaking in English and in one or more additional World Languages. The Seal of Biliteracy distinction on your high school transcript and diploma specifically:

- Shows your commitment to World Languages and cultural awareness.
- Provides universities with a method to recognize and give you credit for attainment of high level skills in multiple languages.

In order to be awarded a Seal of Biliteracy, students must complete a culminating project or portfolio that includes a survey, project proposal, mentor packet, 10 or more journal entries, 4 target language projects, a home language writing piece, and a works cited list. Students will then submit their project or portfolio to a panel and present an oral defense of their work. Students will be assigned to a mentor. The mentor will work with each individual student to set up monthly check-ins as well as ongoing methods of communication to support the student pursuing the project.

Health

High School Health Education

Credits: ½

Length: 20 weeks

Prerequisite: Required High School Course

Course Description: Health education instills in students the knowledge and skills needed to examine alternatives and make responsible health-related decisions. Drawing on knowledge from the biological, environmental, psychological, social, physical, and medical sciences, health education helps students learn to prevent and manage health problems. Topics include: human growth and development, nutrition, family life, alcohol, tobacco, and other drug substances, safety, first aid, and survival, community health, environmental health, diseases and disorders, consumer health, emotional health, and healthy lifestyles.

Mathematics

Algebra 1

Credits: 1

Length: 40 weeks

Prerequisite: none

Course Description: The units of study include: expressions, polynomial expressions, linear equations and systems, inequalities and systems, descriptive statistics, linear and exponential functions, transforming functions, polynomial equations and graphs, and quadratic equations and graphs. The final unit is a synthesis of modeling with equations and functions. There will be a CCSS Regents exam in June.

Algebra 1A

Credits: 1

Length: 40 weeks

Prerequisite: none

Course Description: The units of study include: expressions, polynomial expressions, linear equations and systems, inequalities and systems, descriptive statistics, linear and exponential functions, transforming functions There will be a final exam in June.

Algebra 1B

Credits: 1

Length: 40 weeks

Prerequisite: Successful completion of Algebra 1A

Course Description: This course will be the second half of Algebra 1. The topics from Algebra 1A will be reviewed and new topics will include: linear and exponential functions, transforming functions, polynomial equations and graphs, and quadratic equations and graphs. The final unit is a synthesis of modeling with equations and functions. There will be a CCSS Regents exam in June.

Geometry

Credits: 1

Length: 40 weeks

Prerequisite: Successful completion of Algebra 1

Course Description: The units of study include: Geometry Basics, Parallel and Perpendicular Lines, Congruent Triangles, Relationships in Triangles, Similar Triangles, Right Triangles and Trigonometry, Polygons & Quadrilaterals, Transformations, Circles, Volume and Surface Area, Constructions, and Proofs. There will be a CCSS Regents exam in June.

Math Lab

Credits: 0

Length: 40 weeks

Prerequisite: Teacher recommendation or student request

Course Description: This course is designed to enrich the students with a concrete view of the Math material. The labs consist of activities and examples that demonstrate and extend understanding of the topics taught in a math course.

Algebra 2

Credits: 1

Length: 40 weeks

Prerequisite: Successful completion of Algebra 1 and Geometry

Course Description: This course is a full year course that is a continuation and extension of the two courses that preceded it. Algebra 2 covers topics of Operations; Equations and Inequalities; Variables and Expressions; Patterns, Functions, Relations; Coordinate Geometry; Trigonometric Functions; Measurement; and Statistics and Probability. Students may expect daily homework. Students will sit for a Regents examination at the end of this course which leads to an Advanced Regents Diploma.

CCC College Algebra and Trigonometry

Credits: 1/2 HS credit (3 College Credits)

Length: 20 weeks

Prerequisite: Algebra 2 (average class grade and regents score >70)

Course Description: A Continuation of the study of Intermediate Algebra, the fundamentals of Trigonometry. The concept of function is then introduced and applied to algebraic, rational, exponential and logarithmic functions. Applications of the right triangle are emphasized. A non-graphic scientific calculator is required.

CCC Pre-Calculus

Credits: 1/2 HS credit (3 College Credits))

Length: 20 weeks

Prerequisite: MATH 104 or Algebra 2 (average class grade and regents score >80)

Course Description: This course completes the study of algebraic and trigonometric skills necessary for the successful study of calculus. Trigonometric functions and identities are applied to analytic geometry. Applications of oblique triangle trigonometry and vectors are emphasized. Theory of equations including remainder, factor and De Moivre's theorem are used to study and help in graphing of equations. Using standard equations to graph and evaluate ellipses, hyperbola and parabolas is also emphasized.

Series and sequences (arithmetic and geometric), as well as the binomial theorem, and mathematical induction are introduced. A graphing calculator is required.

AP Calculus / CCC Math 108 Calculus I

Credits: 1 HS credit (4 College Credits))

Length: 40 weeks

Prerequisite: MATH 106

Studies functions; properties of limits and continuity; derivatives with applications to related rates, maximum/minimum and curve sketching; the chain rule; differentials; the mean value theorem; Newton's Method; integration with applications to plane areas, volumes of solids of revolution by disk, shell, and cross sections. Differentiation and integration of exponential and logarithmic functions are applied to growth and decay.

Students must take the AP Calculus exam that is held in May.

AP Statistics / CCC Math 214 Statistics

Credits: 1/2 HS credit (3 College Credits))

Length: 20 weeks

Prerequisite: MATH 106 or MATH 104 (with teacher recommendation)

Course Description: Topics range from data collection, descriptive statistics and linear regression models to inferential statistics. Includes probability, counting principles, and binomial probability distribution. Normal probability distribution and student's t-distribution are discussed in single and two-populations applications. Statistical inference (confidence intervals and hypothesis testing) in sociology, psychology, and business/industry are stressed. Additional topics may include Chi-square goodness of fit test, tests for independence, and testing the significance of the linear regression model.

Students must take the AP Calculus exam that is held in May.

Music

Senior High Concert Choir

Credits: ½

Length: 40 weeks

Prerequisite: Open to students in grades 9-12

Course Description: This chorus performs a variety of music, ranging from pop, jazz, Broadway, and classical. General knowledge of sight reading is a plus. Attendance at each performance is required. Students may qualify for All-County Chorus, Area All-State Chorus, and All-State Chorus. A willingness to experience new music is a must. Students should be willing and eager to sing in a large group.

Choralaires

Credits: ½

Length: 40 weeks

Prerequisite: An audition is required

Course Description: A small women's ensemble, performing a variety of music including jazz, pop, Broadway and classical. This is a small choral ensemble and students must be comfortable singing in a small group.

Jazz Band

Credits: ½

Length: 20 weeks

Prerequisite: Instrumentation is limited to saxophone, clarinet, trombone, trumpet, guitar, piano, and percussion.

Course Description: Jazz band is a select group that performs advanced music from the regular concert band setting. The band plays all varieties of music including, swing, big band, Latin, pop and rock. Rehearsals are held one evening per week. The band performs at all high school concerts and other selected events during the school year. An audition may be required to gain access to this group.

Symphonic Band (Senior High Band)

Credits: 1

Length: 40 weeks

Prerequisite: Open to students in grades 9-12, Students must be proficient in playing a band instrument.

Course Description: The band performs all styles of music including classical, symphonic, 20th century, marches, pop, musicals, and rock. The band rehearses every other day during school time. One group lesson per week is required, plus 20 minutes of practice at home each day. In addition, the Marching Band practices during the months of February, March, April, May, and June. If you are in Symphonic Band, you must be in the Marching Band. Performances include the Winter Holiday Concert, March Pops Concert, Senior Farewell Concert, Graduation, and various marching band competitions and parades both local and out of town.

Piano/Guitar Class

Credits: 1 or ½

Length: 20 weeks

Prerequisite: Music Theory 1 or have special permission from the instructor. Permission to take the class may be granted without having Music Theory only to upperclassmen who already have the basic understandings of theory through years of playing and/or singing in band or chorus.

Course Description: This class will be offered as a 1 credit or ½ credit course focusing on learning both piano and guitar throughout the school year. It will consist of a great deal of individual work as the only way you improve on an instrument is through PRACTICE! The theory you have learned previously should provide you with a solid foundation, but it is understood that you may be at different levels in terms of understanding theory as well as playing both the piano and guitar coming into the class. Guidelines will be set to suit your individual needs and goals. We will be working as individuals and as a team to achieve our ultimate performing goals.

Grading: Grading for this class is based primarily on performing tests. Every 2 weeks you will be playing your chords, scales, songs, etc. that were previously assigned to you. The majority of the playing tests will be for both piano and guitar so that each instrument is getting a consistent amount of practice time. You may also have occasional written exams (more likely during the beginning of the year). Following is the breakdown of how you will receive grades: 60%: Performing Tests, 25%: Written Test & Quizzes, 15%: Behavior, Attitude, & Effort

Equipment: Each of you will be given your own guitar for the year! You may choose to keep your guitar in your assigned spot in the cabinet or you may choose to bring it home. No matter where you choose to keep your guitar you must make sure it is in the Chorus Room during class time. You do not have to have a piano or keyboard at home in order to achieve success on the piano. You will be given class time to practice so you can still achieve a great deal of success on the piano even without the instrument at home.

Elements of Musical Theater

Credits: ½

Length: 20 weeks

Prerequisite: Open to students in grades 9-12

Course Description: This class is designed for students actively involved in the choral and drama programs at Moravia High School. It is offered every other school year in rotation with Introduction to Piano and Guitar. In this class you will explore the three main elements of musical theater performance: singing, acting, and dancing. At the conclusion of the class students will all participate in a Broadway review performance where they will get the opportunity to showcase all that they have learned throughout the course.

Singing: All students in this class should be actively involved in high school chorus. Students will learn a variety of musical theater songs to perform for the class. This includes different decades and styles of musical theater.

Dancing: Students must come to class in appropriate dancewear if we are dancing. Students do not need to have any prior dance experience. All students will be required to purchase necessary shoes which may include jazz shoes or tap shoes.

Acting: Students will participate in a variety of acting games and will learn how to perform in different styles. This includes, but is not limited to, dramatic scenes, comedic scenes, and improvisation.

Other Aspects: Students will all have the opportunity to not only perform, but play the role of the director. They will learn about the aspects that go into directing a musical (lighting, sound, production details, etc) and they will all take a turn directing their own scenes.

Musical Theater Review: The show will culminate in a Broadway musical theater review where all students will be involved in performing scenes and directing scenes. All dance elements and acting styles will be included in this final production.

Physical Education

Physical Education

Credits: ½

Length: 40 weeks

Prerequisite: Required course for all students in grades 9-12 to graduate

Course Description: This course meets the New York State Standards for Health and Physical Education:

Standard 1: Person Health and Fitness - Students will have the necessary knowledge and skills to establish and maintain physical fitness, participate in physical activity and maintain personal health.

Standard 2: A Safe and Healthy Environment - Students will acquire the knowledge and ability necessary to create and maintain a safe and healthy environment.

Standard 3: Resource Management - Students will understand and be able to manage their personal and community obligations.

The New York State Physical Fitness Screening Test or Fitnessgram screening is administered at all grade levels.

Students are expected to:

1) Participate regularly in class except when a 1 day medical excuse from the parent or doctor note, signed by the school nurse, is presented to the teacher. 2) Wear appropriate attire. 3) Provide a sweatshirt, or similar clothing, for cold weather. 4) Have name on belongings. 5) Provide a folder as a portfolio. 6) have a pencil or pen and paper available daily for class usage.

In 9th and 10th grade PE a student is expected to participate in all activities included in the curriculum. Hopefully, he/she has achieved sufficient knowledge and skill to move into the elective program in the junior year. Activities include field hockey, flag football, fitness, lead-up activities and games, volleyball, basketball, racquetball, badminton, table tennis, tennis, softball, soccer, lacrosse, track & field, outdoor snow activities, weight training, and others as determined by staff and students. Eleventh and twelfth grade PE is on a selective program. Within a PE class, choices will be offered. All activities will be co-ed. Stress will be put on lifetime activities. Elective activities run for

four- week periods. Students are graded on a per class basis on a scale of 1 to 5. Students may receive 1 point for being prepared, 1 point for sportsmanship, 1 point for skill and 2 points for effort. Their daily class totals comprise 75% of their grade. 25% of their grade is derived from knowledge work including quizzes, written assignments, research projects, and article summaries. A written assignment or additional class makeup work is left up to the discretion of the instructor. Students must make up all missed classes including field trips, medicals, absences and specials. Classes can be made up during 10th period, or with a pre-signed pass during a study hall.

CCC Fitness Center 1

Credits: 1

Length: 20 weeks

Prerequisite: Open to upperclassmen only

Course Description: Fitness Center 1 will provide an orientation to Moravia HS Fitness Center and provide multiple physical assessments. Students will identify components of an effective workout plan using the FITT Principle, and use those components to build a personal program.

CCC Fitness Center 2

Credits: 1

Length: 20 weeks

Prerequisite: Must pass Fitness Center 1

Course Description: Fitness Center 2 will build on the workout plan they created in Fitness Center 1 implementing more advanced training techniques. Students will expand on their fitness by adding recovery techniques and learning nutritional tips.

Science

The Living Environment

Credits: 1

Length: 40 weeks

Prerequisite: Open to students in grades 9-12

Course Description: This course is designed to provide a broad general understanding of the fundamental principles of life. Included are units on physiology, reproduction, modern genetics, evolution and ecology. An emphasis is placed on lab work with an extra period every other day for that purpose. A required number of labs must be successfully completed in order to be allowed to take the Regents exam.

The Physical Setting: Earth Science

Credits: 1

Length: 40 weeks

Prerequisite: Must have passed one Regents Science Exam

Course Description: You will gain an awareness of the uniqueness of the Earth and learn of the major physical, geological, and meteorological features of the Earth. Topics studied will include maps, weather, rocks and minerals, plate tectonics, weathering and erosion, glaciers, astronomy and Earth's history. Computer programs are used to improve understanding. An emphasis is placed on lab work with an extra period every other day for that purpose. The regents exam is the final exam.

Physical Science

Credits: 1

Length: 40 weeks

Prerequisite: Must have passed one Regents Science Exam

Course Description: This class is geared towards students who work hard, but struggle in science. Physical Science is a lab based course designed to allow students hands-on experience with the phenomenon observed in the world around us. We will discuss various concepts in Chemistry, Physics, and Earth Science.

The Physical Setting: Chemistry

Credits: 1 HS and 8 CCC credits in Natural Science (NS)

Length: 40 weeks

Prerequisite: Passing grades in Algebra 1, Earth Science, and Living Environment, Students may advance if they have an 85 or above on the Living Environment Regents AND above an 85 on the Algebra Regents.

Course Description: This course is an intensive fast paced quantitative science designed for the student who intends to pursue a college level education. Students must possess extremely strong math, literacy, and study skills. The student is expected to take charge of their own learning experience and will be asked to do some tasks independently. The major areas covered will be a broad understanding of the fundamental principles of: the physical behavior of matter and thermodynamics, atomic structure and bonding, periodic trends, formulas and equations, solutions, kinetics and equilibrium, acids, bases and salts, redox and electrochemistry, organic chemistry, and nuclear chemistry.

This course also has a laboratory class period where theory will be put to practical use.

The CCC curriculum is the same as the Regents curriculum with more depth. The student is expected to take charge of their own learning experience and will be asked to do some tasks independently. Expect at least 2 hours of homework/lab work or studying each night.

All students dual enrolled will take a Semester I Final and a Semester II final for CCC credit in addition to the Regents Exam in June.

The Physical Setting: Physics

Credits: 1 HS - 4 CCC credits in Natural Science

Length: 40 weeks

Prerequisite: Must have passed Regents Chemistry and Algebra 2/Trig

Course Description: This Physics course follows the same NYS Core Curriculum. If you opt to take the CCC component you will be required to attend Physics 2 periods **EVERYDAY** as opposed to every other day. The CCC curriculum is the same as the Regents curriculum but goes more in depth. There are opportunities to explore concepts and questions of interest to the learner. There will be more challenging exams, quizzes, and labs during the course. The student is expected to take charge of

their own learning experience and will be asked to do some tasks independently. Expect at least 2 hours of homework/lab work or studying each night.

Advanced Placement Biology/ CCC Biology 103-104

Credits: 1 HS and 4 CCC credits in Natural Science (NS)

Length: 40 weeks

Prerequisite: Living Environment and Chemistry Course and Regents Examinations. It is strongly suggested that students had an overall average of 85 or above in both the Living Environment and Chemistry courses and Regents exams to expect to succeed in this course.

Course Description: This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their freshman year. Topic of study include: Scientific Methodology (inquiry, investigations, and statistical analysis of results), Biochemistry, Molecular Biology, Cell Structure and Function, Biological Energy Transformation, Cell Communication and the Cell Cycle, Heredity, Gene Expression and Regulation, Evolution, Ecology, Diversity of the Animal Kingdom, Physiology, and Growth and Development.

Since this is a college level course students are required to be able to work independently and should expect about 2 hours of homework a night. Some AP students, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite. Other students have fulfilled a basic requirement for a laboratory science course and will be able to undertake other courses to pursue their majors. **All students enrolled in AP Biology will take the AP Biology exam in May, a Semester I Final and a Semester II final for CCC credit.**

Social Studies

Global History I

Credits: 1

Length: 40 weeks

Prerequisite: Required for all ninth grade students

Course Description: Global Studies I (9th grade) is a World History course. Emphasis is on major points in European and non-Western civilizations up to approximately 1789 (French Revolution). Areas of study include world religions, cultures, economics, politics, and geography. This course is the first part of a 2 year sequence (Global

Studies II is taken in 10th grade) which culminates in a Regents exam. A local exam is given at the end of the 9th grade course.

Advanced Global History and Geography

Credits: 1

Length: 40 weeks

Prerequisite: Teacher recommendation as well as pre-admittance testing

Course Description: This course is an introductory course to the AP World History course. Emphasis is on major points in European and non-Western civilizations up to approximately 1789 (French Revolution). Content covered involves deeper investigation of ancient history and the impact it has had on modern events. College level materials are used and more content is covered independently as homework assignments. Students must have strong reading, writing, and analytical skills.

Global History II

Credits: 1 Required course for 10th graders

Length: 40 weeks

Prerequisite: Passing grade in Global Studies I

Course Description: The focus of this course is a chronological examination of Global History, from the Scientific Rev and Enlightenment through present time. Students are expected to make connections among events occurring at similar times across different regions of the world. The final exam will be a Regents exam.

Advanced Placement World History

Credits: 1

Length: 40 weeks

Prerequisite: Passing grade in Advanced Global History & Geography

Course Description: The purpose of the AP World History course is to develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. It emphasizes relevant factual knowledge used in conjunction with leading interpretive issues and types of

historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage. Periodization, explicitly discussed, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course, along with consistent attention to contacts among societies that form the core of world history as a field of study.

The course is designed to prepare students for the AP exam in World History that is administered in May. **All students enrolled in AP World History are required to take the AP exam in May.** Students will also take the NY State Regents exam in Global History and Geography at the conclusion of the course.

U.S. History and Government

Credits: 1

Length: 40 weeks

Prerequisite: Required course for 11th graders

Course Description: The focus of this course is a chronological examination of American History, from colonial times to the present. Students will be required to do homework, assigned readings, participate in class discussions, and pass tests. In June, students will take the Regents exam.

Advanced Placement US History & Government

Credits: Credit: 1 H.S.and College Credit - Alternative to US History & Government

Length: 40 weeks

Prerequisite: Minimum 85 average in Global II/teacher recommendation

Course Description: A survey course in American History from the Age of Exploration to the present. Students are required to do assigned readings, study primary documents, write analytical essays, and participate in class activities. **Students are required to take the AP Exam in early May.** This course is more rigorous and demanding than the US History & Government class. Students are also required to take the New York State Regents Exam.

Economics

Credits: ½ graduation requirement

Length: 20 weeks

Prerequisite: Must be a senior

Course Description: Students are given a survey course in micro and macroeconomics. Areas covered in the course are: supply and demand, forms of business organizations, competition and monopolies, government regulation of business, unemployment and inflation, advertising and marketing, the business cycle, money and banking, investing, taxation and international trade. A comparison of economic systems found in the world is also included. A local exam is given at the end of the course.

Participation in Government

Credits: ½ graduation requirement

Length: 20 weeks

Prerequisite: Must be a senior

Course Description: Government is a one semester course focusing on the citizen's role in government. It involves four levels of government: school, local, state, and national. The state syllabus requires that this be an issue-related course with a heavy emphasis on student participation. Students will also be required to complete a project for their final exam.

History Through Film

Credits: 1

Length: 40 weeks

Prerequisite: open to all students 10-12

Course Description: Often, movies can spark a person's interest in history. However, many times one has to ponder, "Fact or fiction"? This is a question that an individual often wonders as they walk out of a movie theater having watched a "historical movie" Many times a person asks after watching a movie "Is that how it really happened?" In this course we will watch various historical films and examine that very question.

We will separate fact from fiction, myth from reality. In doing this we'll compare the Hollywood portrayal to the real story. As we examine each film students will learn interesting facts about history; and along the way see that movies can be a valuable

way to learn about history - provided you take what you see with a grain of salt and are willing to look into the true story yourself.

The accuracy of each movie will be judged using a variety of methods. We will use group discussion, web quests, look at primary accts from the time period, and secondary and tertiary sources. After discussing and researching the facts the class will decide whether the movie is more Hollywood or more History.

Some of the movies we will be watching this year may include but are not limited to *Saving Private Ryan*, *Longest Day*, *Brave Heart*, *We Were Soldiers*, *Last of the Mohicans*, *All Quiet on the Western Front*, *The Patriot*, *Gandhi*, *Hotel Rwanda*, *Men of Honor*, *Eight Men Out*, *Lord of War*, *Blackhawk Down*, *Wind Talkers*, individual episodes of *Band of Brothers*.

Technology

Mechanical Drawing

Credits: ½

Length: 20 weeks

Prerequisite: Open to any student in grades 9-12

Course Description: Lettering, sketching, geometric construction, orthographic projection, dimensioning, sectioning, isometric and oblique drawings, and graphs. Outside work is required.

Computer Aided Design (CAD)

Credits: ½

Length: 20 weeks

Prerequisite: Passing grade in Mechanical Drawing

Course Description: This is an introductory course in Computer Aided Drafting. The CAD program used in this course is Auto CAD LT. Drawings that are required will include border/title block, one-view, orthographic projection, isometric drawings, dimensioning, and geometric construction.

Materials

Credits: 1

Length: 40 weeks

Prerequisite: Open to students in grades 9-12

Course Description: This class is introductory in nature and will be taught in the metal shop. Emphasis will be placed upon the understanding and use of basic tools, equipment, processes, and materials used in the fabrication of metal products. Topics covered will include: forging/heat treating, sand casting, sheet metal, arc/oxyacetylene welding, and elementary lathe operations. Course instruction will be divided between lecture (25%) and hands-on activities (75%). Project materials fee required.

Production Systems

Credits: 1

Length: 40 weeks

Prerequisite: Open to students in grades 9-12

Course Description: This class is introductory in nature and will be taught in the wood shop. Emphasis is placed upon the understanding of and use of basic tools, equipment, processes and materials used in the fabrication of wood products. Students will also gain exposure to product determination, design of jigs and fixtures, machining, assembly, and finishing of wood products. Course instruction will be divided between lecture (25%) and hands-on activities (75%). Project materials fee required.

Basic Electronics

Credits: ½

Length: 20 weeks

Prerequisite: Open to students in grades 9-12

Course Description: This is a basic course which deals with the areas of electrical safety, A.C. and D.C. theory, measuring instruments, generation and transmission of

power, practical applications such as lighting, and simple printed circuits. The students will be required to design and build electronic devices of their own choice as a learning experience.

Transportation Systems

Credits: ½

Length: 20 weeks

Prerequisite: Open to students in grades 9-12

Course Description: This course provides students with an opportunity to study transportation systems of land, marine, and aerospace. The course will cover such topics as use of parts manuals and parts lists, use of appropriate tools and techniques in engine repair, servicing procedures, safety, engine theory of operation. The students will complete lab activities in areas such as: small engine tear down and repair, fuel systems, lubrication systems, cooling, exhaust, ignition servicing and troubleshooting.

Home Repair and Maintenance

Credits: ½

Length: 20 weeks

Prerequisite: Open to students in grades 9-12

Course Description: This ½ credit course is a study of repairs that are commonly undertaken by the average homeowner. Areas of hands-on learning experience may include drywall installation and repair, ceramic tile, wiring, plumbing, basic automobile maintenance, alternate energy, property care and landscaping, and basic woodworking. Examples of projects include black iron “STEAM PUNK” lamps, ceramic tile night stands, PVC yard decorations, and more.

REGIONAL EDUCATION CENTER

Occupational education is provided under the supervision of the Board of Cooperative Education Services (BOCES) at the Regional Education Center in Auburn. Juniors and Seniors selecting occupational education will spend one half of the day at the Center and the other half-day at the high school. Students completing a program should acquire entry-level skills in the desired occupation.

BOCES Program List:

Applied Electrical Technology

These students are involved in "live" work with off-campus construction and restoration sites. Students master the fundamentals of residential wiring and, as a second-year student, learn electrical codes and their interpretations, the proper installation of metallic and PVC conduit.

Auto Body Technology

The Auto Body Program prepares students for employment in the automotive body repair field. It focuses on training in the repair and/or replacement of damaged metal and glass in vehicles. Students get hands-on experience in straightening bent frames, removing dents, welding torn metal, replacing parts and refinishing.

Automotive Technology

The Automotive Technology Program provides knowledge and practical experiences that teach the basic phases of automotive repair, along with related safety procedures. Students learn to diagnose, troubleshoot, and perform preventive maintenance while repairing automobiles. Students can add to their credentials the ASE Certification (Automotive Service Excellence Certification), an industry-wide accepted certification.

Computer Systems & Network Admin

The first year of this program begins with basic PC repair and troubleshooting. Students learn the basics of computer technology. The student will learn proper computer help desk and technician skills. In the second year, the students build upon previous experience and gain a solid foundation in network and systems administration, complete with training in the latest technologies used by businesses today.

Construction & Building Trades

Students will learn everything from foundation forming to interior finish. The program includes masonry, which enhances an understanding of form work and structural design. Students get hands-on experience in all phases of the construction industry by planning, developing, and building an actual structure.

Cosmetology

Students attend for two years, including a 20-day summer school session, to satisfy requirements. Students focus on mastering professional techniques for hair, skin, and nails in a salon environment, with hands-on instruction and training, as well as developing interpersonal communication skills. A clinical experience provides students with real-life experience in the field. In addition, this program prepares students for the New York State Licensing Exam. To be eligible to take the exam, students must complete 1,000 hours of instruction.

Criminal Justice

Criminal Justice prepares students for careers in security, law enforcement, and the legal field. The curriculum includes extensive preparation in all aspects of law enforcement, including corrections, social services, probation, police investigative work, pre-law studies, and a whole lot more! In addition to academics, students will do hands-on learning such as fingerprinting, handcuffing, criminal takedown tactical training, self-defense, crime scene investigation, crowd control and traffic control.

Culinary Arts

Students learn everything from culinary techniques and methods to catering and gain management skills needed to succeed in the food service industry. The food service program teaches menu planning, cooking, baking and catering/production techniques, as well as restaurant management. Students learn in a commercial kitchen where they prepare lunches, buffets, and banquets during the year.

Early Childhood Education

The focus of this Program is to prepare students for careers working with children from birth to eight years of age. The first year of the program covers prenatal development, birth through middle childhood, child nutrition, and techniques for effective guidance. The second year focuses on developing curriculum and internships in the public schools. ECE students establish networks with the Offices of Children and Family Services, the Department of Health and the Department of Mental Health through their experiences and course study.

Emerging Careers In Commerce

This Program provides students with the opportunity to explore their interests in fashion, music, gaming, and entertainment. Students dive into real-world learning systems, develop lifelong skills, and graduate with a professional portfolio filled with quality work examples and a resume - the perfect resource for a college or job interview!

Exploration in Construction & Mechanical Trades

In the Exploration in Construction & Mechanical Trades program students learn in a professional environment while gaining skills necessary to obtain and maintain employment in a variety of automotive, mechanical and construction fields.

Exploration in Food Service & Hospitality

In the Exploration in Food Service & Hospitality Careers program students will learn basic food preparation, culinary techniques, baking, cooking and proper food handling. Students will work in a professional environment while gaining skills necessary to obtain and maintain employment in a variety of food service settings.

Graphic Design & New Media

Students receive broad-based instruction and hands-on experience in visual communications fields. Graduates of this program will be prepared to enter college or begin entry-level employment in their chosen field. Students gain experiential knowledge and skills with emerging media technologies that apply to graphic design, illustration, digital photography, marketing, computer animation, web design, and video production

Health Related Occupations

The Health Related Occupations Program provides a broad foundation of theory and clinical skills enabling students to pursue entry-level employment or continuing education. Permanent certification for Homemaker Home Health Aide can be obtained after successful completion of the junior year of study and the completion of supervised clinical experiences. Certification as a Nursing Assistant requires successful completion of the senior year of study and completion of the State Certification examination. These courses prepare the students to provide basic care to clients in their homes, long-term care facilities, residential facilities, and hospitals. Students in the senior year also take a unit in phlebotomy, which provides knowledge and skills necessary to draw blood specimens from veins (performing venipuncture).

Heavy Equipment Repair & Operation

In the Heavy Equipment Repair & Operation Program, students learn entry-level skills needed in today's construction industry. Instruction and experience are provided in shop management, equipment repair and operation, and Class A & B truck driving. Learn to operate and repair loaders, dozers, graders, and backhoes. Additional information about transit work, road & foundation layouts, and measurements are included. Students who demonstrate good mechanical aptitude and like working outside in all types of weather will be successful in this program. A solid background in reading and math work is strongly recommended.

Machining & Welding

Our competency-based Machining and Welding Program is a unique blend of two professions. The goal of this program is to help students develop job readiness skills relative to the welding and machining occupations. Good work ethics and employable skills are taught through classroom theory and shop activities. The course curriculum will be presented by classroom instruction, shop activities, and industrial tours.

Outdoor Powersports Equipment & Technology

The Program focuses on all aspects of system operations and component breakdown related to the small gasoline engine industry. Students learn the general theories of

systems and apply repair/troubleshooting techniques to small gas engines while utilizing the same tools and equipment found in repair shops all over the country. Students get the opportunity to practice on customer and school owned equipment. Safe operation practices are implemented into every aspect of student training.

Plant, Animal & Life Sciences

The Plant, Animal, and Life Sciences Program is a stimulating and challenging option for employment bound or college-bound high school students. Not sure what you want to do...just know you like working with plants and animals and being outside...we'll help you figure it out.

New Visions Program

Senior year only for Medical Professions

New Visions is a stimulating and challenging option for college-bound high school seniors who are interested in medicine and related life sciences and who would like to learn the fundamentals about health care professions. Cayuga-Onondaga BOCES, in cooperation with Auburn Community Hospital, will provide an inside look at medical professions found in hospitals and ancillary health care facilities. Through daily involvement with various medical staff, students will learn what is required of healthcare professionals and the application of their education to real-life situations on the job. Students will gain a better understanding of the responsibilities and professional demands of a busy technical environment and will see how working together as a team can provide quality patient care.