

BLOOMFIELD
HIGH SCHOOL
2019-2020



COURSE DESCRIPTION BOOK
& IB PROGRAM OF STUDIES

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Bloomfield Middle School/High School Mission Statement

The mission of the Middle/High School is to cultivate students’ passion for knowledge and commitment to self reflection, in order to lead balanced lives and contribute to their global community. To this end, the Middle/High School Staff accepts the responsibility for providing a rigorous well rounded college and career ready program that provides our students with the opportunities to become empathetic, knowledgeable and caring individuals who will make a positive impact on the world.

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Grades

A student receives credit for a course if they earn a minimum grade of 65%. The final average for a course is based on 80% class work, 5% midterm grade and 15% final examination.

Weighted Grading

In conjunction with Bloomfield Central's philosophy to increase academic rigor and achievement, weighted grading has been implemented based on the following formula:

- International Baccalaureate Course average multiplied by 1.05
- AP Course average multiplied by 1.05
- Gemini (FLCC) Course average multiplied by 1.05

Terms

Credit - Value given to a course that is successfully completed (Carnegie unit).

Half-credit Courses - Courses usually taken for a half-year or on a part-time basis.

School credit – Given if satisfactory work is maintained in any specific subject. This is indicated by a grade of 65% or better.

Regents credit – Given when both the Regents examination in a subject is passed with a grade of 65% or better and the student passes the corresponding course with a 65% or better.

Required Courses – Courses that all students need in order to meet state and local graduation requirements.

Elective Courses – Courses taken by choice, not required of the student.

Prerequisite – The requirement that must be met before going on with advanced subjects in the same area.

AP – Advanced Placement Courses

Gemini – Dual enrollment college credit courses offered in the high school that grant college credit through FLCC (Finger Lakes Community College) for free.

IB – International Baccalaureate, A cohesive, comprehensive, rigorous pre-university program of study offered to juniors and seniors. Please see the IB handbook for detailed information.

NYS Graduation Credit Requirements

Required Courses	Regents Diploma	Regents Diploma with Advanced Designation
English	4 units	4 units
Social Studies	4 units	4 units
Math	3 units	3 units
Science	3 units	3 units
Language other than English (LOTE) **	1 unit	3 units (A)
The Arts	1 unit	1 unit
Health	½ unit	½ unit
Physical Education	2 units	2 units
Electives	3.5 units	1.5 units
Total	22 units	22 units

Required Exams

(Passing score of 65 or above)

English Language Arts

Regents Math

Regents Global History

Regents U.S. History

Regents Science

LOTE Proficiency

Required Exams

(Passing score of 65 or above)

English Language Arts

Algebra I

Geometry

Algebra II

Regents Global

Regents U.S. History

Regents Living Environment and one additional Regents Science

LOTE Regional Assessment

**Students who complete two units of study in a single language other than English, no later than the end of grade 8, must pass the Second language examination in order to earn one unit of credit toward the high school diploma.

A: To earn the Advanced Designation, the student must complete *one* of the following options: Language Other than English (3 credits); Career and Technical Education (5 credits); or The Arts (5 credits)

***For students with disabilities that entered 9th grade prior to September 2011: The Local Diploma is available for students that score between 55-64 on a Regents Examination or pass the Regents Competency Test in the specified subject area.

Diploma with Honors

Students may be awarded a Regents Diploma with Honors or an Advanced Designation Regents with Honors. To earn a diploma with Honors, a student must achieve an overall average of 90% or higher in required Regents examinations.

Advanced Placement Course Information

The [Advanced Placement \(AP\) Program](#) is a cooperative educational endeavor between secondary schools and colleges/universities. Since its inception in 1955, the AP has motivated high school students with the opportunity to take college courses in a high school setting. Students who participate in the program not only hone college level skill, but also in many cases, earn college credit while they are in high school. Advanced Placement courses are taught by dedicated and enthusiastic Bloomfield Central teachers who follow course guidelines developed and published by the [College Board](#). All students enrolled in AP courses are strongly encouraged to take the AP examination in May. *(Some courses are co seated with Gemini or IB.)*

Advanced Placement Offerings

- AP English Literature
- AP Calculus
- AP World History
- AP Psychology
- AP Biology
- AP Chemistry
- AP US History
- AP Music
- AP Statistics

FLCC (Gemini) Course Information

Bloomfield Central is proud to offer [Gemini courses through Finger Lakes Community College \(FLCC\)](#). Since FLCC is recognized at four-year colleges across New York State, students who attend four-year schools can most often transfer their FLCC credit to the college of their choice. For the 2015-16 school year Gemini credits are FREE! Students will need to register for the classes and there will be a small registration fee of \$5.00 per credit hour.

Gemini Course Offerings

Gemini Course Title (Bloomfield Course Title)

- Composition I /II (Freshman Composition)
- Principals in Financial Accounting (Accounting)
- Personal Money Management (Personal Finance)
- French 201/202(French III/IV)
- Spanish 201/20(Spanish III/IV)
- Health (Gemini Health)
- General Chemistry 121/122* (AP Chemistry)
- General Biology 121/122* (AP Bio I)
- General Physics 121/122 (IB Physics)
- Mathematics of Money
- Statistics*
- Music Appreciation
- Basic Musicianship
- Environmental Science

*Co seated with AP

IB Program of Studies

The [International Baccalaureate \(IB\) Program](#) is an academically challenging and balanced program of education with assessments that prepare students for success at university and life beyond. The program is taught during the students' junior and senior years of high school and has gained the recognition and respect from the world's leading universities.

IB Course Offerings

- IB Literature (HL)*
- IB History of the Americas (HL)*
- IB Biology (HL) or (SL)*
- IB Music (HL) or (SL)
- IB French (SL)
- IB French A/B Initio (SL)
- IB Spanish (HL) or (SL)
- IB Spanish A/B Initio (SL)
- IB Math Studies (SL)
- IB Math (SL)
- IB Visual Art (SL) or (HL)
- IB Design Technology (SL)
- IB Psychology (SL)*
- IB Physics (SL)
- IB Theory of Knowledge (TOK)
- IB CAS (creativity, activity, service)

*Co seated with AP

Note: In accordance with Bloomfield's educational philosophy that all students have the ability to learn, IB, Advanced Placement and FLCC Gemini courses are available to all students.

Art

The Arts Learning Standards

Standard 1: (Creating, performing and participating in the arts) Students will actively engage in the processes that constitute creation and performance in the arts (dance, music, theater, and visual arts) and participate in various roles in the arts.

Standard 2: (Knowing and using arts materials and resources) Students will be knowledgeable about and make use of the materials and resources available for participation in the arts in various roles.

Standard 3: (Responding to and analyzing works of art) Students will respond critically to a variety of works in the arts, connecting the individual work to other works and to other areas of human endeavor and thought.

Standard 4: (Understanding the cultural dimension and contributions of the arts) Students will develop an understanding of the personal and cultural forces that shape artistic communication and how the arts in turn shape the diverse cultures of past and present society.

Art Courses

Studio in Art

**This course can fulfill the NYS Fine Art requirement*

Prerequisite: None

Grade: 8 - 12

Full year: Every day

Unit: 1 credit

The only requirement for Studio in Art is an open mind and ability to have fun. Are you ready? Studio in Art is a comprehensive study of the visual arts allowing the student to explore who they are through their artwork in a variety of media, techniques, styles and types of arts. We will make art, talk about art, study art, and learn a little history along the way. The course is designed to help students enjoy, appreciate and come to value works of art. Everyone is an artist; all you need is courage, perseverance, and confidence. This course will show students the infinite possibilities and uses of art in their lives. This class is required for students interested in majoring in art, IB art, drawing & painting, and open to all. If you want variety, this is the class!

Useful Creations (Formerly Functional Art)

**This course can fulfill the NYS Fine Art requirement*

Prerequisite: None

Grade: 8-12

Half year: Every day

Unit: 0.5 credit

Talk about FUN! We are going to make creations of art that have a function! The student will learn about design, creativity, problem solving and thinking about how objects work. Think of all the possibilities: furniture, instruments, cards, calendars, gift bags, vessels, bowls, a piñata, and books to name a few. Your options are unlimited! Materials: flash drive and resourcefulness with materials that you have in your house.

Drawing & Painting I

Prerequisite: Studio in Art

Grade: 09 - 12

Full Year: Every day

Unit: 1 credit

This course is an introduction to the fundamentals of observation, artistic invention, and basic principles of perspective and composition through the creation of still life, landscape, portraiture and much more. Create imaginative artwork and experiment with a variety of media such as pencil, charcoal, marker, colored pencil, chalk pastel, watercolor and acrylic paint.

Drawing & Painting II

Prerequisite: Studio in Art, Drawing & Painting I

Grade: 10 - 12

Full Year: Every day

Unit: 1 credit

Drawing II builds on the knowledge and skills acquired in Drawing I on a more advanced level. The basic drawing skills that have been developed are used to solve more sophisticated art problems. Students explore self-expression and creative problem solving techniques. In Painting II, students will further their artistic independence with continued guided exploration of both familiar and new media, concepts and techniques. Students will continue to build their portfolio of work and will be encouraged to develop their own creative styles.

**This course is offered every other year.*

Sculpture

Prerequisite: None

Grade: 9 - 12

Half Year: Every day

Unit: 0.5 credit

Sculpture is any art creation that is three-dimensional. Sculpture can stand on its own, hang on a wall as a relief or hang from the ceiling as a mobile. In this course you would learn a variety of techniques and work with a variety of media such as wood, wire, paper mache, soapstone, cardboard, plaster, furniture, clay and more. We will also dabble in a little history on sculptors to develop your ability to understand and talk about art. Materials needed: Flash drive

Ceramics I

Prerequisite: None

Grade: 9 - 12

Half Year: Every day

Unit: 0.5 credit

Remember making mud pies as a kid? Instead of mud pies, sign up for Ceramics and make creations out of clay. Who doesn't love to work with clay? You'll make all kinds of vessels from traditional to contemporary. You will experience all the different techniques of clay including: pinch, coiling, modeling, slab, and combination of all of these techniques. Opportunities for wheel throwing are possible. Materials needed: Flash drive **Creative Art Therapy**

Creative Art Therapy

Prerequisite: None

Grade: 9 - 12

Half Year: Every day

Unit: 0.5 credit

Art therapy brings joy to the people making the art and often involves bringing joy to others. This class will make connections with other people & life skills like patience, self confidence, perseverance to name a few.... We will experiment with different materials and explore creative problem solving and making connections with others. The focus will be on how art makes people feel. We will explore media like painting, collage, fibers & crafts to name a few.... This class uses art as a means of communication & lets people express & explore their thoughts and emotions.

Photography -Not offered in 2019-20 school year

Prerequisite: None

Grade: 9 - 12

Half Year: Every day

Unit: 0.5 credit

Ready to take pictures? You get the opportunity to work on a life skill of capturing photographic moments in this class. Explore portraiture, landscapes, lighting, contrast, editing, and of course, take your own photos to develop your personal portfolio. Your own digital camera is not mandatory but helpful because it's the best way to capture great photographs whenever you want. We will have picture days at school, so bringing in new ideas and props are essential in creating these photos. You do need either a smartphone or digital camera, digital slr is preferable.

Computer Art I

**This course can fulfill the NYS Fine Art requirement*

Prerequisite: None

Grade: 8 - 12

Full Year: Every day

Unit: 1 credit

Who said the computer is just for typing term papers? Not in this class! It is everything but word processing. You will use the computer as an art tool to draw and design solutions to creative problems and learn how to manipulate images on the computer using software such as Adobe Photoshop, InDesign, and Illustrator. This class will be fantastic introduction to possible career paths in art, as well as the opportunity to sharpen your art skills in an advanced setting. *Please purchase a flash drive prior to class.*

IB Visual Arts I & II

Prerequisite: Studio in Art

Grade: 11 - 12

Two Full Years: Every day

Unit: 2.0 credits

The IB Visual Arts class is a 2-year college preparatory course where you learn to use a variety of media, research about artists in various cultures and societies, and get to choose your own projects to complete. One person may choose to delve into ceramics and create the sculpture of a human head, where the next person may have an interest in painting an abstract mural. The entire class works together as a team to bounce ideas off one another and help one another to be successful on their own artistic journey. At the end of the two years, the members of the class are fully prepared to have their own IB art show for the community and are able to present their artwork and thought process to an outside art examiner.

This class is a tremendous opportunity for you to learn how to budget your time, how to work well with peers, and how to think for yourself to grow as an artist and as an individual.

THIS 2 YEAR COURSE FULFILLS 'GROUP 6' REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

Business and Marketing

Career Development and Occupational Studies Learning Standards

Unlike the content-oriented standards, the Career Development Standard outlines a strategy for learning rather than specific knowledge and skills. Self and career explorations become a major vehicle for addressing and integrating the areas of study in grades K-12.)

Standard 1: (Career Development) Students will develop an awareness of the world of work, explore career options, and relate personal skills, aptitudes and abilities to future career decisions.

Standard 2: (Integrated Learning) Students will understand and demonstrate how academic content is applied in real-world and workplace settings.

Standard 3a: (Foundation Skills) Students will demonstrate mastery of the foundation skills and competencies essential for success in the workplace.

Standard 3b: (Career Majors) Students who choose a career major will acquire the career specific technical knowledge/skills necessary to progress toward gainful employment, career advancement and success in post-secondary programs.

Business and Marketing Courses

Game Design & Programming

Prerequisite: None

Grade: 10 - 12

Half Year: Every day

Unit: 0.5 credit

This course is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, students learn about all aspects of the game-design process. From there, it's on to a series of increasingly challenging hands-on-projects that teach all the elements of successful game development. This course provides a solid foundation in the essentials of game design.

Game Design & Programming II

Prerequisite: Game Design & Programming

Grade: 10 - 12

Half Year: Every day

Unit: 0.5 credit

This course is a continuation of Game Design & Programming. Students will learn coding and 3D game development. Students will use GameMaker language to extend learning from the drag and drop methods learned in Game Design and Programming. In addition students will learn to program in a 3D environment .

Accounting

*FLCC/Gemini Credit Course

Prerequisite: None

Grade: 10 - 12

Full Year: Every day

Unit: 1 credit/4 FLCC credits

This course is a college level credit-bearing course. Students may earn 4 credit hours of college credit from FLCC. The emphasis of this introductory course is to develop an understanding of accounting information systems for the business entity and for the individual. The basic concepts, procedures, business documents, and financial statements are included as they relate to the accounting cycle. Analysis of business decisions is stressed for the internal and external aspects of the business.

Business Management

Prerequisite: None

Half Year: Every day

Grade: 9 - 12

Unit: 0.5 credit

Pre MBA Program for anyone interested in starting or running a business. The Business Management course provides students with an understanding of the business management functions, various management theories and the basic organization of a business. Students learn that Business Management is the process of using the resources of a business to efficiently and effectively achieve its goals through planning, organizing, staffing, leading and controlling.

Students build a strong knowledge base and develop effective management skills and learn that successful managers are individuals who understand the benefits of teamwork and consensus building and are able to maximize the utilization of human resources. As leaders, they recognize the importance of technology and information management in the decision-making process and the value of ethics and social responsibility in building and maintaining business relationships. In addition, managers realize that the ability to recognize and respond to new business opportunities and changing economic conditions is critical to the overall success of a business both locally as well as in the global marketplace.

Introduction to Entrepreneurship

Prerequisite: None

Full year: Every day

Grade: 9 - 12

Unit: 1 credit

You will learn the process by which one establishes a business enterprise or social movement. Students are taught to write a business or social plan, make a pitch to potential investors, obtain funding, register with governmental agencies, and actually launch their own company. Students take all the real and necessary steps to launching an enterprise. Brainstorming ideas, preparing a business plan for their enterprises, pitching business ideas to real investors; developing marketing materials and preparing to sell products and/or services to customers. As with all entrepreneurs, students learn that new business or non-profit creation requires determination, courage, and motivation. There are many guest speakers that will be scheduled.

Business Law Will be offered in the 2020-21

Prerequisite: None

Full Year: Every day

Grade: 10 - 12

Unit: 1 credit

Business Law is for the student who wishes for a challenge. This course is split up into eight parts: knowing more about the law, entering into contracts, obtaining a job and being an agent, thinking about married life, being a consumer, using your purchasing power, starting a business, and looking toward later life. This is an ideal course for all students since we all function as consumers, and within the law. This course can be used in a business sequence.

Personal Finance

*FLCC/Gemini Credit Course

Prerequisite: None

Half Year: Every day

Grade: 9 - 12

Unit: .5 Credit/3 FLCC Credits

Personal Finance is a course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and saving accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.

Computer Programming

*FLCC/Gemini Credit Course

Prerequisite: None

Full Year: Every day

Grade: 10 - 12

Unit: 1 Credit/4 FLCC Credits

Introduction to programming and computing serves as a first course for all computer related majors. This course emphasizes the development of languages and software, problem solving, and programming in a structured, object oriented language. This course is for beginning programmers. The Java programming language is used throughout the course, to give the student a solid foundation in the fundamentals of programming and an introduction to programming in an object-oriented programming language. Ideal for anyone interested in computer programming and video game design.

Sports and Entertainment Marketing

Prerequisite: None

Half Year: Every day

Grade: 9 - 12

Unit: Half Credit

Sports & Entertainment Marketing is a course designed to teach marketing concepts through (applied to) the sports and entertainment industry. Marketing is a tool that has allowed the U.S. economy to become highly successful internationally. The basic functions of marketing product/service management, distribution, selling, marketing information management, financing, pricing, and promotion will be covered. In addition to marketing overview, this course is designed to show how advertising, sales, and event marketing and communications are important.

English

English Language Learning Standards

Standard 1: Students will read, write, listen and speak for information and understanding

Standard 2: Students will read, write, listen and speak for literary response and expression

Standard 3: Students will read write, listen and speak for critical analysis and evaluation

Standard 4: Students will read, write, listen and speak for social interaction

English 9 Regent

Prerequisite: English 8

Grade: 9

Full Year: Every day

Unit: 1

credit

English 9 is designed to further develop the basic English skills developed in the English 7 and English 8 programs. The class is organized with focus on the reading and writing skills needed by the average to above average student. The genres studied will include the short story, essay, poetry, drama, and the novel. Students are expected to complete eight required works as well as choose some free choice novels throughout the year. Personal and literary criticism responses will also be required. Vocabulary study will be an ongoing process using vocabulary from the required literature. Oral communication skills and research skills will be developed through a variety of formal and informal activities. The basic elements of good English (grammar, spelling, sentence structure, etc.) will be studied daily.

English 10 Regents

Prerequisite: English 9

Grade: 10

Full Year: Every day

Unit: 1 credit

Students will review and reinforce basic skills in English. Students will work developing reading, writing, listening, and speaking skills essential for communication in today's world. Writing assignments will include the types of writing required to meet the Regents standards. Students will become literary critics. Students will utilize the word processor for most writing assignments including the research paper. Students will be exposed to numerous literary genres. Literary themes often parallel themes in students' lives. Through literature, students may find themselves better able to deal with disappointments and triumphs in their own lives. Vocabulary, grammar, punctuation, and spelling will be an integral part of the curriculum.

English 11 Regents

Prerequisite: English 10

Grade: 11

Full Year: Every day

Unit: 1 credit

English 11 is designed to focus on American Literature and society. Students will be taking the Regents Comprehensive Examination at the end of the course. American Literature is designed as a survey course. The social and literary trends and major writers of the 17th, 18th, 19th, and 20th centuries will be studied. The changing nature of America as indicated through the study of various genres of American Literature will be studied. Class work will include many types of expository, persuasive, and creative writing assignments, as well as one interdisciplinary research paper. The basic tools or elements of good English (grammar, spelling, sentence structure, and vocabulary) will be studied on a regular basis.

English 12

Prerequisite: English 11
Full Year: Every day

Grade: 12
Unit: 1 credit

English 12 curriculum is designed to expand the student's ability to read with critical insight, analyze literature based on the tools of communication, and include the generated information in "stylistically sophisticated" compositions. This course incorporates creative writing, public speaking, media studies, drama, and world literature.

Freshman Composition I/II (Gemini ENG 101/103)

*FLCC/Gemini Credit Course

Prerequisite: English 11 or IB English I
Half Year: Every day

Grade: 12
Unit: 1.0 credit/6 FLCC Credits

Gemini English 101: The goals of Composition I are to develop students' abilities to write at a college level and to think critically. Students will learn to make decisions based on rhetorical concerns of a writer's purpose, the readers' needs, and the context in which documents are read. As using sources effectively is one of the goals in the course, research will be interwoven into documents as a way to support ideas and connect with the audience. The course emphasizes process-based writing, student reflection of their learning progress, and it culminates in a learning portfolio. This course carries SUNY General Education credit.

Gemini English 103: Continuing the educational goals of Composition I (critical reading and thinking, focused research, reflective writing, and process-based writing), Composition II shifts the focus to the rhetorical concerns of persuasion and argument. The course provides students with increased practice in research, analysis, and genres of writing done throughout college as well as in the professional realm. The course emphasizes academic research-based writing and culminates in a best-work portfolio. This course carries SUNY General Education credit.

IB Literature I – Higher Level

Prerequisite: English 10
Full Year: Every day

Grade: 11
Unit: 1 credit

IB English I engages students with new ideas and worldviews in order to discover more about themselves and their world. Students read works of literature in a variety of genres, and participate actively in the class on a regular basis. The curriculum incorporates the IB Learner Profile to encourage students to test themselves, to depart from their comfort zone to try new things, engage new ideas, and discover unfamiliar cultures. Hard work and commitment are also necessary components in this class. We don't want students who think they've arrived; we want students who are committed to going farther. This class prepares for IB English II.

THIS COURSE IS REQUIRED FOR IB DIPLOMA PROGRAMME STUDENTS

IB Literature II – Higher Level/AP English Literature and Composition

Prerequisite: English 11 or IB English I
Full Year: Every day

Grade: 12
Unit: 1 credit

The second year of AP/IB continues to stress effective communication and analytical thinking. The readings present the many flaws, foibles, dignities and heroic efforts – both noble and misguided – that make up the ever-changing human collective. Since AP and IB exams test for the same set of language skills, the courses will be co-seated and task differentiation will only occur on external assessments.

THIS COURSE IS REQUIRED FOR IB DIPLOMA PROGRAMME STUDENTS: FULFILLS 'GROUP 1' LANGUAGE/LITERATURE REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS.

Foreign Languages

Standard 1 : Students will be able to use a language other than English for communication

Standard 2: Students will develop cross-cultural skills and understandings.

Foreign Language Courses

French 1A

Prerequisite: None

Grade 7-12

Full Year: Every day

Unit: 1 Credit

French 1A is the first year of a 2 year course that develops the primary skills of reading, writing, listening and speaking in the target language. This course lays the foundation through grammar, and authentic situations to promote cultural awareness through examination of basic themes common to all cultures. French 1A will also prepare students for the level 1B course, which is a continuation of 1A. French 1A and 1B prepare students for the regionally developed Proficiency Exam that will be taken in June of the following year. This exam measures a student's ability to read, speak, write and understand spoken French. Passing this exam is necessary to obtain the one required credit for High School Graduation.

French 1B

Prerequisite: Pass French 1A

Grade 7-12

Full Year

Unit 1 Credit

French 1B is the second year of a 2-year course that develops the primary skills of reading, writing, listening and speaking in French. This course promotes cultural awareness through examination of basic themes common to all cultures. Grammar, listening, reading and writing skills will continue to be developed this year. In June of this year, students will be taking the regionally developed Proficiency Exam at the end of this course. This will give them the one credit in a foreign language needed for graduation.

French II

Prerequisite: Passing the 1B Course and the Proficiency Exam

Grade 8-12

Full Year

Unit: 1 Credit

French II begins with a thorough review of topics and grammar covered in courses 1A and 1B. After which more advanced grammar and culture will be studied. Topics that will be covered are travel, dining out, telecommunications, shopping, leisure activities, staying in a hotel and travel by flight. French II also begins preparation for the Regionally Developed Regents Exam that will be taken at the end of French III the following year in June. This exam measures a student's ability to read, speak, write and understand spoken French at a more advanced level.

French III/ FLCC French 201

Prerequisite: Passing French II

Grade 9-12

Full Year

Unit 1 Credit/3 FLCC Credits

In French III, topics and advanced grammar points from French II are reviewed and expanded upon. All of this is in preparation for the Regionally Developed Assessment exam given in June. This course and the passing of the exam are needed for an advanced regents diploma. This course is also co-seated with the FLCC's French 201 Course where a student can also earn 3 College Credits.

French IV, French IB Year 1 and FLCC French 202

Prerequisite: Passing French III

1 Year: Every day

Grades: 11-12

Unit 1 Credits/3 FLCC Credits

French IV, IB SL 1 French and FLCC French 202 are co-seated. This course is designed to raise students to a level of fluency that would permit them to communicate effectively in a variety of social and professional and world situations, as well as prepare them for the required testing modes of the IB SL Exam, which is given in May. The FLCC course requirements will be interspersed throughout the year and an FLCC style final exam will be given in June. For those students not taking the IB or the FLCC course, a local final will be given. The students will be able to communicate fluently by using their knowledge of cultural differences as well as similarities. All this is done through authentic Francophone texts and articles and other media. This will further their ability to communicate through the skills of reading, writing, listening and speaking skills as well as refining their grammar and other skills. **THIS COURSE IS REQUIRED FOR IB DIPLOMA PROGRAMME STUDENTS ENROLLED IN FRENCH**

French V, French IB Year 2

Prerequisite: Passing French IV

1 Years: Every day

Grade 12

Unit 1 Credits

French 5, IB SL 2 French are co-seated. This course is designed to raise students to a level of fluency that would permit them to communicate effectively in a variety of social and professional and world situations, as well as prepare them for the required testing modes of the IB SL Exam, which is given in May. For those students not taking the IB, a local final will be given. The students will be able to communicate fluently by using their knowledge of cultural differences as well as similarities. All this is done through authentic Francophone texts and articles and other media. This will further their ability to communicate through the skills of reading, writing, listening and speaking skills as well as refining their grammar and other skills.

THIS COURSE FULFILLS 'GROUP 2' REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

IB French Ab Initio (SL) Year 1

Prerequisite: Passing Spanish III or level III of another foreign language

1 Year: Every day

Grade 11, 12

Unit: 1 Credit

The French ab initio course is a language acquisition course for students with little or no experience with the language. The course is organized into three themes: Individual and society, Leisure and work, and Urban and Rural Environment. Each theme is comprised of a list of topics that provide students with opportunities to practice and explore the language and to develop intercultural understanding.

Through the development of receptive, productive, and interactive skills, students develop the ability to respond and interact appropriately in a defined range of everyday situations.

THIS COURSE FULFILLS THE 'GROUP 2' REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS IF TAKEN FOR 2 YEARS.

IB French Ab Initio (SL) Year 2

Prerequisite: IB French Ab Initio (SL) Year 1 or this course may be taken as an exploratory course without the option of taking the IB exam.

Grade 11, 12

Unit: 1 Credit

IB French Ab Initio year 2 is the second year of a two year course that explores the themes of Individuals and society, Leisure and Work and Urban and Rural Environments. Each theme is comprised of a list of topics that provide students with opportunities to practice and explore the language and to develop intercultural understanding.

Students will prepare for and take the Ab Initio exam as established by the International Baccalaureate Program. Students taking the course as an exploratory experience will not take the Ab Initio exam.

Spanish 1A

Prerequisite: None
Full Year: Every day

Grade: 7-12
Unit: 1 credit

Spanish 1A is the first year of a 2-year course that develops the primary skills of reading, writing, listening and speaking in the target language. This course promotes cultural awareness through examination of basic themes common to all cultures. Spanish 1A will also prepare students for the Level 1B course, which is a continuation of 1A. Courses 1A and 1B will also prepare students for the Proficiency Exam that will be taken at the end of 1B. This exam measures a student's ability to read, speak, write and understand spoken Spanish. All of the topics studied in both 1A and 1B could be topics on the Proficiency Exam in June. Passing this exam is necessary in order to obtain the one required credit for High School Graduation.

Spanish 1B

Prerequisite: Spanish 1A
Full Year: Every day

Grade: 7-12
Unit: 1 credit

Spanish 1B is the second year of the 2-year course that develops the primary skills of reading, writing, listening and speaking in the target language. This course promotes cultural awareness through examination of basic themes common to all cultures. Spanish 1B will further prepare students for the Proficiency Exam that will be taken at the end of the 1B course. This exam measures a student's ability to read, speak, write and understand spoken Spanish. All of the topics studied in both 1A and 1B could be topics on the exam in June. Passing this exam is necessary in order to obtain the one required credit for High School Graduation.

Spanish II

Prerequisite: Spanish 1A and 1B
Full year: Every day

Grades: 9-12
Unit: 1 credit

Spanish II begins with a review of basic topics and grammar points covered in Spanish 1A and 1B, and then continues the study of the Spanish language and culture. The skills of reading, speaking, writing and listening will continue to be developed. Some of the topics that will be covered include: Daily Routine, Community, Childhood Memories and Heroic Acts. In this class, students will begin to express themselves in past and future tenses. Spanish II also begins preparation for the Checkpoint B exam that will be taken at the end of Spanish III.

Spanish III/FLCC Span 201

Prerequisite: Spanish II
Full Year: Every day
Credits

Grade: 10-12
Unit: 1 credit/3 FLCC

This course is co-seated and students have the option of registering for three college credits. We begin with a brief review of materials from Spanish II and then continue the study of Spanish language and culture. The skills of reading, speaking, writing and listening will continue to be developed. In this class students will begin to express themselves in the imperative tense and the subjunctive mood. Some of the topics that will be covered include: Fine Arts, Leisure, Travel, Health and Fitness and The Environment. The Regionally Developed Assessment exam will be taken in the end of June.

Spanish IV/IB Standard Level Spanish Year 1/ FLCC Span 202

Prerequisite: Spanish III
Full Year: Every day

Grade: 11-12
Unit: 1 credit/3 FLCC Credits

This course is co-seated and students have the option of registering for three college credits if they registered for Span 201 the previous year. This course follows primarily the curriculum from the International Baccalaureate Programme and begins to prepare students for the Spanish Language B exam at the end of the senior year. The topics investigated in year 1 include; Social Relationships-friends, family, minorities, nationalism, patriotism, Cultural Diversity-intercultural assimilation, population diversity, subcultures, culinary heritage, Communication

and Media-censorship, internet, press, radio and television. Language skills in this course are developed through the study and use of a range of written and spoken material that relate to the cultures studied.

THIS COURSE IS REQUIRED FOR IB DIPLOMA PROGRAMME STUDENTS ENROLLED IN SPANISH

Spanish V/IB Standard Level Spanish Year 2

Prerequisite: Spanish IV

Grade: 12

Full Year: Every day

Unit: 1 credit

Spanish 5 and IB year 2 both follow the same curriculum and complete similar assessments based on the IB curriculum. In the course students continue to grow their language skills and cultural understandings through a variety of topics. These topics will include: global issues, social relationships, health, customs and traditions and science and technology. Students also read several short stories and a complete work of literature. Knowledge gained through these units are assessed through speaking, reading, writing and listening tasks. There is an emphasis on discussion and spontaneous speaking throughout the course. Students taking the course for IB credit will have their final exam grade determined by an external grader; Spanish 5 students will take a similar exam which will be assessed locally.

THIS COURSE FULFILLS ‘GROUP 2’ REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

IB Spanish Ab Initio (SL)

Prerequisite: Passing French III or level III of another foreign language

Grade 11, 12

1 Year: Every day

Unit: 1 Credit

The Spanish language ab initio course is a language acquisition course for students with little or no experience with the language. The course is organized into three themes: Individuals and Society, Leisure and Work, and Urban and Rural Environments. Each theme is comprised of a list of topics that provide students with opportunities to practice and explore the language and to develop intercultural understanding.

Through the development of receptive, productive and interactive skills, students develop the ability to respond and interact appropriately in a defined range of everyday situations.

THIS COURSE FULFILLS ‘GROUP 2’ REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS IF TAKEN FOR TWO YEARS

IB Spanish Ab Initio (SL) Year 2

Prerequisite: IB Spanish Ab Initio (SL) Year 1 or this course may be taken as an exploratory course without the option of taking the IB exam.

Grade 11, 12

Unit 1 credit

IB Spanish Ab Initio year 2 is the second year of a two year course that explores the themes of Individual and Society, Leisure and Work, and Urban and Rural Environments. Each theme is comprised of a list of topics that provide students with opportunities to practice and explore the language and to develop intercultural understanding. Students will prepare for and take the Ab Initio exam as established by the International Baccalaureate Program. Students taking the course as an exploratory experience will not take the Ab Initio exam.

Health and Physical Education

Health, Physical Education and Home Economics Learning Standards

Standard 1: (Personal 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 resources.

Gemini Health

*FLCC/Gemini Credit Course

Prerequisite: None

Grade: 10 - 12

Half Year: Every day

Unit: 0.5 credit/3 FLCC Credits

A college level Health course that focuses on lifestyle factors and their relationships to well-being, behaviors, and disease. Health content areas, defined by NYS Education Department, are explored. Topics include personal and community health, environmental health, drug use, mental health, physical fitness, weight management – eating disorders, nutrition, diseases (cardiovascular disease, cancer, STDs including HIV/AIDS) safety education – First aid/ CPR training, communication skills for productive relationships (i.e. conflict resolution, effective listening skills), reproduction, contraception, behavior change contract – personal health journal.

This course can be used as the health course required for graduation.

Physical Education Courses

Senior High Physical Education

Prerequisite: None

Grade: 9 - 12

Full Year: Every Other Day

Unit: 0.5 credit

Physical Education is a required course by New York State, which students must take each year to graduate. Our Physical Education Curriculum will focus on Physical Fitness and will provide students with the opportunity to participate in team, individual, lifetime and recreational activities. Daily warm up activities will prepare students with the necessary skills and training to be successful at Health Related Physical Fitness Tests, which will be administered each quarter. Written assignments will also be used to assess student performance.

Basic Weight Training

*FLCC/Gemini Credit Course

Prerequisite: None

Grade: 9 - 12

Full Year: Every Other Day

Unit: 0.5 credit/1 FLCC Credit

This is a physical activity class that will explore the basic techniques of weight training, focusing on the various exercises applied in a weight training program, demonstration of proper technique, and development of an overview of a comprehensive training program. (This does not fulfill a PE High School Credit).

Physical Conditioning—Will be offered in the 2019-20 school year

*FLCC/Gemini Credit Course

Prerequisite: None

Grade: 9 - 12

Full Year: Every Other Day

Unit: 0.5 credit/1 FLCC Credit

A blend of aerobic activity and weight training designed to improve one's overall fitness level and encourage participation in physical fitness activities for a lifetime. Fitness testing, discussions/lecture, and individualized, workouts will be incorporated throughout the semester (This does not fulfill a PE High School Credit).

Stress Reduction through Exercise

*FLCC/Gemini Credit Course

Prerequisite: None

Grade: 10 - 12

Full Year: Every Other Day

Unit: 0.5 credit/2 FLCC

Credits

This course will explore the many ways that stress affects health and wellness. Students will be introduced and acquainted with the fundamental theories and applications of the mind-body-spirit phenomenon. Stress management strategies covered include: social support, communication, exercise, nutrition, sleep, time management, spirituality, writing, comic relief, music therapy, and relaxation techniques.

(This does not fulfill a PE High School Credit).

Mathematics

Mathematics, Science and Technology Learning Standards

Standard 1: Students will use mathematical analysis, scientific inquiry and engineering design, as appropriate, to pose questions, seek answers and develop solutions.

Standard 2: Students will access, generate, process and transfer information using appropriate technologies.

Standard 3: Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically, by applying mathematics in real-world settings, and by solving problems through the integrated study of number systems, geometry, algebra, data analysis, probability and trigonometry.

Standard 4: Students will understand and apply scientific concepts, principles and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.

Standard 5: Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems to satisfy human and environmental needs.

Standard 6: Students will understand the relationships and common themes that connect mathematics, science and technology and apply the themes to these and other areas of learning.

Standard 7: Students will apply the knowledge and thinking skills of mathematics, science and technology to address real-life problems and make informed decisions.

Mathematics Courses

Algebra I Common Core

Prerequisite: None

Grade: 8/HS

Full Year: Every day

Unit: 1 credit

Algebra I Common Core is a one-year New York State Regents course in the Common Core High School Curriculum. This is a rigorous course, built on the middle grades standards, which deepens and extends understanding of functions to include linear, quadratic, exponential, absolute value and square root functions and applications. This course culminates with a New York State Regents Exam in June.

Geometry Common Core

Prerequisite: None

Grade: 9

Full Year: Every day

Unit: 1 credit

Within this course, students will justify geometric relationships and properties of geometric figures. Students will use proofs, both formal and informal, to show several geometric situations. Congruence and similarity of triangles will be established using a variety of theorems. A major emphasis of this course is to allow students to investigate geometric situations. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences. Students must pass the Geometry Regents Exam to earn an Advanced Designation Regents Diploma.

Algebra II Common Core

Prerequisite: Geometry

Grade: 9, 10

Full Year: Everyday

Unit: 1 credit

Algebra II / Trigonometry is rigorous third year course in the Regents sequence that integrates various branches of mathematics and presents a variety of topics. Topics introduced in Integrated Algebra and Geometry are reinforced and extended, and new topics are introduced, with emphasis on algebra, functions, trigonometry, statistics, and use of graphing calculators. Students must pass the Algebra II Regents to earn an Advanced Designation Regents Diploma.

Intermediate Algebra

Grade:10-12

Prerequisite: Algebra

Unit: 1 credit

Full Year: Everyday

This course is directed toward algebraic concepts necessary to excel in a college algebra course. Topics include functions, rate of change, solving quadratic equations, properties of exponents, systems of equations and inequalities, and right triangle trigonometry. Solutions to linear quadratic, absolute value and radical equations will be found numerically, algebraically and graphically. Geometric ideas of area, volume and angles will be reviewed.

Applied Math

Prerequisite: Algebra I or Algebra A and B

Grades: 11,12

Full Year: Every day

Unit: 1 credit

This course will encompass numeric and algebraic skills that students will need to be college and career ready. There will be an emphasis on Algebra, functions, statistics and real world application problems (financial math, business project) through the use of the graphing calculator and other technologies. Students will be introduced to topics such as graph theory, voting theory, project management, and other consistent with a Liberal Arts Mathematics course. Such a course will be offered to students who are not yet ready for Gemini College Mathematics and will give them the skills to pursue higher level mathematics the following year.

Mathematics of Money

*FLCC Gemini Credit Course

Prerequisite: Algebra/Geometry OR Algebra A/B and Applied Math

Grade: 11,12

Full Year: Every day

Unit: 1 credit/3 FLCC Credits

This course is directed toward the student who wishes to study mathematics with business and financial applications. The philosophy of the department is that this course is a mathematics course using business-related topics to enhance the student's abilities in and appreciation for mathematics. The course topics are chosen so as to be of interest to a broad range of students. Among the topics chosen are simple interest, simple discount, compound interest, present and future value of annuities, spreadsheets and other specific financial applications. This course is FLCC Math 110: The Mathematics of Money

Pre-Calculus

Prerequisite: Algebra II

Grade: 11,12

Full Year: Everyday

Unit: 1

credit

This course is a continuation of the New York integrated math sequence with basic units of study from the fields of algebra, analytic geometry and calculus. This course will be co-seated with IB Math Standard Level. IB topics that will also be covered are sequence and series, statistics, 3-D geometry and financial mathematics.

IB Math Studies (SL)

Prerequisite: Algebra II

Grade: 11-12

Full Year: Every day plus Lab

Unit: 1 credit

This one-year program is designed to provide a realistic mathematics course for students with varied backgrounds and abilities in Math. The skills needed to cope with the mathematical demands of technological society are developed and emphasis is placed on the application of mathematics to real-life situations. Math Studies is designed to build confidence and encourage an appreciation of mathematics in students who do not necessarily need mathematics in their future studies. Students most likely to select this course are those whose main interests lie outside the field of mathematics. The Bloomfield Central School District SL – Mathematical Studies course is designed to promote the idea that mathematics is a universal language, one that is used in every aspect of life. IB Math Studies includes an internal assessment, which is a student-centered project, along with an external assessment, which is an IB exam.

THIS COURSE FULFILLS ‘GROUP 5’ REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

IB Math Standard Level

Prerequisite: Algebra II

Grade: 11,12

Full Year: Every day plus Lab

Unit: 1 credit

This course caters to students who already possess knowledge of basic mathematical concepts and who are equipped with the skills needed to apply simple mathematical techniques correctly. Most students taking this course plan to continue on in their study of mathematics; taking Calculus and/or Statistics. The majority of these students will expect to have a sound mathematical background as they prepare for future studies in subjects such as chemistry, economics, psychology, and business administration. (IBO) This course will be co-seated with Precalculus. There will be an IB exam in May.

THIS COURSE FULFILLS ‘GROUP 5’ REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

AP Calculus AB

Prerequisite: Pre-Calculus/ IB Math Standard Level

Grade: 12

Full Year: Every day

Unit: 1 credit

Calculus is a college level course dealing with elementary functions and introduction to calculus including differentiation and integration, and applications of both of these major branches. The Calculus AB course follows the syllabus provided by the College Board. The course covers in a full year what may be covered in slightly over one semester in college. It is a course that concerns itself with the intuitive understanding of the concepts of Calculus and experience with its methods and applications. Graphing calculators are an integral part of the course and may be provided by BCS. A problem-solving lab period will also be scheduled every other day if scheduling permits it.

AP Statistics/Statistics MAT 200

*FLCC Gemini Credit Course

Prerequisite: Algebra II

Grade: 11 & 12

Full Year: Every day

Unit: 1 credit/3 FLCC credit hrs

The purpose of the AP/Gemini course in Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. The AP/Gemini

Statistics course follows the syllabus provided by the College Board and Finger Lakes Community College. The course covers in a full year what may be covered in slightly over one semester in college. Graphing calculators are an integral part of the course may be provided by BCS. ***To enroll for Gemini Credit, students must have taken Algebra II and received a final course grade of an 80% or above OR the student must sit for the Accuplacer exam offered through FLCC and BCS.**

Music

The Arts Learning Standards

Standard 1: (Creating, performing and participating in the arts) Students will actively engage in the processes that constitute creation and performance in the arts (dance, music, theater, and visual arts) and participate in various roles in the arts.

Standard 2: (Knowing and using arts materials and resources) Students will be knowledgeable about and make use of the materials and resources available for participation in the arts in various roles.

Standard 3: (Responding to and analyzing works of art) Students will respond critically to a variety of works in the arts, connecting the individual work to other works and to other areas of human endeavor and thought.

Standard 4: (Understanding the cultural dimension and contributions of the arts) Students will develop an understanding of the personal and cultural forces that shape artistic communication and how the arts in turn shape the diverse cultures of past and present society.

Evaluation based on:

Attendance at all performances

Attendance at all rehearsals and lessons

Weekly practice cards

Periodic playing exams

Individual progress

Music Courses

Senior High Band (Grades 8 – 12)

Senior High Band is a concert band of instrumental music students who have demonstrated a certain level of proficiency on their individual instrument. Advanced 7th graders may also be asked to join. Preparation of music for concert performances includes many varied styles and types. Senior High Band meets on an academic period every other day. Rehearsal and performance attendance is required at all concerts, adjudications, and music educational trips, and is included as part of the final grade. All senior high band members will be required to march in the local parades, which include the Homecoming Parade in the fall, the Henrietta Memorial Day Parade and the Bloomfield Memorial Day parades in the spring. Rehearsals will be kept at a minimum, and will occur after school or in the evening.

Senior High Band (Grades 8 – 12) continued

Playing Finals/Grading (Grades 8 – 12)

At the end of each ten-week marking period, playing finals are given to test the student's knowledge of material covered in instrumental lessons for that marking period. High School Concert band members will be expected to participate in an audition shortly after the beginning of the school year to determine seating in the band. Another audition will be administered in January (end of the 2nd 10 week period) to adjust seating as necessary. Current Concert Band, Jazz Ensemble, and/or Marching Band music, assigned scales/rudiments, and method book assignments are all performed by the student and graded by Mr. Hoffman on an individual basis. The Playing Final Grading Sheets are reviewed and distributed once all grade averages have been completed. Playing finals comprise

approximately 30% of the grade. Attendance, attitude, effort, and musical growth are the criteria used in grading, not just musical ability.

Instrumental Lessons

Each instrumental student will participate in a weekly full period music lesson. Several lesson groups will be offered each day. Lessons will be rotated in such a manner that a student will not miss a schedule period twice in a row on the lesson rotation. All Concert, Jazz, and Marching Band Members are required to take lessons.

Jazz Ensemble

Prerequisite: Audition

Grade: 7 - 12

Full Year: Every other day

Unit: 0.5 credit

Jazz Ensemble members are selected from both Junior and Senior High Bands. Preparation of music for concert performance includes many varied types and styles. Jazz Ensemble meets during 7th period every other day. Early morning and/or evening rehearsals are occasionally required in preparation for upcoming concerts and competitions **Members of the Middle and High School concert bands will receive top priority in filling positions within the jazz ensemble. In the event that a position cannot be filled from within the Middle and High School concert bands, students from the entire student body may be accepted (by audition only) into the jazz ensemble. Vacancies will be announced to the student body, and ample time will be given to prepare an audition piece selected by the band director. The Jazz Ensemble performs at school concerts, area band pageants, and other festival competitions within and outside the state. Attendance for rehearsals, performances and music educational trips are considered as part of the grade. Those students selected are also required to take instrumental lessons as part of their grade.

Senior High Mixed Chorus

Prerequisite: None

Grade: 8 - 12

Full Year: Every other day

Unit: 0.5 credit

Senior High Mixed Chorus is a group of students from grades 8 – 12. They meet every other day. Rehearsals reinforce good tone and breathing, establish better part singing and expand the repertoire and appreciation for music of varied styles and composers. Chorus members are required to perform in all concerts and outside performances. Other outside school performances may include field trips and solo festivals. Attendance for rehearsals, music educational trips and performances is considered as part of the grade. One-half credit per year is given to choral members.

Jazz Choir

Prerequisite: Audition

Grade: 8 - 12

Full Year: Every other day

Unit: 0.5 credit

Jazz Choir members are selected from members of the Senior High Chorus through audition only. Students are required to perform in the school concerts. Outside school performances may include jazz chorus festivals and other field trips. Attendance for rehearsals, music educational trips and performances is considered as part of the grade. There is an emphasis on singing in the jazz style and improvisation. Student must be a member of the Senior High Chorus to be considered for this select ensemble.

Music Appreciation

*FLCC/Gemini Credit Course

Prerequisite: None
Half Year: Every day

Grade: 9 - 12
Unit: 0.5 credit/3 FLCC Credits

A course for the general interest student, the intent of which is to heighten the student's awareness of the place of music in our culture and enhance his or her enjoyment of the art form itself, upon completion of the course, the student will be able to: identify and describe the elements of music, such as rhythm, dynamics, timbre, pitch, melody, harmony, and tonality; classify music according to media, genre, and form; compare and contrast the style periods of art music and demonstrate knowledge of the important composers from each period; demonstrate comprehension of computer-based audio, visual, and/or written materials; research musical performances, and critique them in writing.

Basic Musicianship*

*FLCC/Gemini Credit Course

Prerequisite: None
Full Year: Every day

Grade: 09 - 12
Unit: 1 credit/3 FLCC Credits

Basic Musicianship explores the basics of music theory, with a particular emphasis on Western Music beginning in the Baroque Period. The course will explore basics of note reading in all clefs, all forms of major and minor scales, as well as major and minor key signatures. Students will be expected to sign as a group and individual. We will also devote one day a week to Aural Theory, or ear training. This involves melodic, harmonic, and rhythmic dictation. Some instrumental experience is helpful, although not a prerequisite for this course.

This course is required for AP Music.

Music Theory I

*FLCC/Gemini Credit Course

Prerequisite: Basic Musicianship
Full Year: Everyday

Grade: 10-12
Unit: 1 credit/3 FLCC Credits

Music Theory I explores the basics of music theory, with a particular emphasis on Western Music beginning in the Baroque Period. The course will explore basics of note reading in all clefs, all forms of major and minor scales, as well as major and minor key signatures. Students will be expected to sign as a group and individual. We will also devote one day a week to Aural Theory, or ear training. This involves melodic, harmonic, and rhythmic dictation. Some instrumental experience is helpful, although not a prerequisite for this course.

IB Music (SL) and (HL)

Prerequisite: Basic Musicianship/ Prior vocal or instrumental experience
Full Year: Every day

Grade: 11-12
Unit: 1 credit

This course provides an appropriate foundation for further study in music at university level or in music career pathways. It also provides an enriching and valuable course of study for students who may pursue other careers. This course also provides all students with the opportunity to engage in the world of music as lifelong participants. Students will have the opportunity to take the course as a higher level (HL) for two years or a standard level (SL) for one year. Both HL and SL music students are required to study musical perception. All students must submit a musical links investigation and also respond to a listening examination paper. At the SL students in music are required to choose one of the three options: SL creating (SLC), SL solo performing (SLS), or SL group performing (SLG). HL students are required to present both creating and solo performing.

Having followed the music course at the SL or HL, students will be expected to demonstrate:

1. Knowledge, understanding and perception of music in relation to time, place and cultures
2. Appropriate musical terminology to describe and reflect their critical understanding of music
3. Comparative analysis of music in relation to time, place and cultures (unlike at SL, HL students are also expected to demonstrate this in response to pieces not previously demonstrated).
4. Creative skills through exploration, control and development of musical elements (SLC, HL)
5. Performance skills through solo music making (SLS, HL) or group music making (SLG)

6. Critical-thinking skills through reflective thought.

THIS COURSE FULFILLS ‘GROUP 6’ REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

Science

Mathematics, Science and Technology Learning Standards

Standard 1: Students will use mathematical analysis, scientific inquiry and engineering designs, as appropriate, to pose questions, seek answers and develop solutions.

Standard 2: Students will access, generate, process and transfer information using appropriate technologies.

Standard 3: Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically, by applying mathematics in real-world settings, and by solving problems through the integrated study of number systems, geometry, algebra, data analysis, probability and trigonometry.

Standard 4: Students will understand and apply scientific concepts, principles and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.

Standard 5: Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems to satisfy human and environmental needs.

Standard 6: Students will understand the relationships and common themes that connect mathematics, science and technology and apply the themes to these and other areas of learning.

Standard 7: Students will apply the knowledge and thinking skills of mathematics, science and technology to address real-life problems and make informed decisions.

Science Courses

Living Environment Regents

Prerequisite: None

Grade: 8 -11

Full Year: Every day plus labs

Unit: 1 credit

Living Environment is a Regents course that follows the New York State core curriculum for Living Environment. The following are the major topics that will be covered: ecology, genetics, reproduction, evolution and immunity. The lab periods will be devoted to scientific inquiry with an emphasis on the development of lab skills such as: designing a lab procedure, making and recording accurate observations, interpreting data and using data to draw conclusions.

Earth Science Regents

Prerequisite: None

Grade: 8 -12

Full Year: Every day plus labs

Unit: 1 credit

This is a study of all the sciences that relate to the earth in the universe: geology, astronomy, meteorology, climatology, and oceanography. Changes in the earth are studied through readings, class discussion and lab investigations. Each student must complete the laboratory requirements (1200 minutes) as defined by the Board of Regents to be eligible to take the Regents examination for this course.

Chemistry Regents

Prerequisite: Algebra I

Grade: 9-12

Full Year: Every day plus labs

Unit: 1 credit

This is a Regents level Chemistry course following the State syllabus. Topics covered include atomic theory, chemical bonding, acids and bases, organic molecules, and inorganic reactions. Additional lab periods, every other day, will provide the opportunity to study chemical theory.

Environmental Science

*FLCC/Gemini Credit Course

Prerequisite: Two years of Regents science

Grade: 10-12

Half Year: Every day

Unit 1 Credit/4 FLCC Credits

This course investigates the interactions and relationships between humans and the Earth. It provides the scientific foundation for analyzing today's pressing environment issues and solutions for a sustainable future. Students will gain an understanding and appreciation of the impact of humans on other living organisms, water resources, air quality, and energy and mineral resources. In analyzing potential solutions to these environmental issues, students will evaluate the impact of their own choices on the Earth's resources as well as the relative role of governments in setting sustainable policies. In the laboratory component of the course, students will learn scientific methodology, sampling procedures and methods used to test environmental quality.

Anatomy and Physiology-Will be offered in the 2020-21

Prerequisite: Living Environment

Grade: 10 -12

Full Year: Every day

Unit: 1 credit

This is a full year course designed to be equivalent of college level anatomy and physiology taken by many different majors; biology, pre-med, nursing, sports medicine, physical therapy, veterinarian, dentistry, or any other human health related major. The course focuses on structure and function of the human body at the following levels of organization: chemical/biochemical, cell/tissue, organ/system. Organ systems include integumentary, skeletal, muscular, nervous and special senses. Organ systems include endocrine, blood, cardiovascular, lymph, respiratory, digestive, urinary and reproductive. Laboratory involved analysis done at both microscopic and macroscopic levels and selected dissections. Laboratory involved analysis done at both microscopic and macroscopic levels; the latter including disarticulated bones, muscle models, biochemistry, and selected dissections.

Forensics

Prerequisite: Regents Science requirements completed

Grade: 10 - 12

Half Year: Every day

Unit: 0.5 credit

This is a 20 week course designed to as a General Science Elective that incorporates aspects of Chemistry, Physics, Earth Science, and Biology with a focus on gaining an understanding of Forensic Investigations. Students should have completed their Regents Science Requirements as a prerequisite to this course.

General Science

Prerequisite: Regents Science requirements completed

Grade: 10 - 12

Half Year: Every day

Unit: 0.5 credit

Experimental Science is a laboratory based science course that enables students to both apply and expand previous science content knowledge to develop and conduct open-ended, student-centered investigations that are designed to answer testable research questions. Designing experiments, conducting field research, and understanding current scientific literature are tools that will enable students to: think critically, analyze and evaluate data, and communicate results.

Topic areas that can be used to demonstrate and strengthen scientific inquiry include: Astronomy, Biology, Geology, Plant Science, Chemistry, Energy and Weather.

Physics Regents

Prerequisite: Algebra I
Full Year: Every day plus labs

Grade: 10 - 12
Unit: 1 credit

This is a Regents level course that follows the State syllabus. The purpose of the course is to present a modern view of physics and to develop a general understanding of the fundamental principles of physics, as well as, building problem solving skills. Study areas include core studies in Mechanics, Waves, Electricity, and Energy and Nuclear Physics. The unifying concept through the entire course is the study of energy and energy changes.

AP Biology*

*FLCC/Gemini Credit Course

Prerequisite: Reg. Living Environment, Chemistry recommended

Grade: 11 - 12

Full Year: Every day plus labs

Unit: 1 credit / 8 FLCC credits

AP Biology is designed to be equivalent to a 2 semester college level introductory Biology course taken by Biology Majors during their first year of college. AP Biology differs from an introductory course such as Regents Living Environment in the depth and breadth of topics that are studied. The main goals of AP Biology are to help students develop a conceptual framework for modern Biology as well as an appreciation of the scientific process. The three main areas of study are: Molecules and Cells, Heredity and Evolution and Organisms and Populations. A separate laboratory experience is an essential component of this course. The student is expected to take the AP Biology Examination in May. This course is co-seated with IB Biology I.

AP Chemistry*

*FLCC Gemini Credit Course

Prerequisite: Algebra and Regents Chemistry

Grade: 11- 12

Full Year: Every day plus labs

Unit: 1 credit / 8 FLCC credits

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. This course differs from Regents Chemistry in the number of topics treated, the time spent on the course by students, and the depth of study.

IB Physics (Gemini)

Prerequisite: Algebra I

Grade: 11 -12

Full Year: Every day plus labs

Unit: 1 credit

IB-SL Physics will provide students the opportunity to study the dynamic fields of classical and modern Physics at an advanced level. Core curriculum areas of Mechanics, Thermal Physics, Waves, Electricity and Magnetism, Fields and Forces, Atomic and Nuclear Physics, Energy Power and Climate change, as well as options outlined in the IB curriculum for physics will be studied. International Baccalaureate Physics as a Group 4 experimental science will use a combination of interactive lectures, inquiry, presentations, examination of related literature from the field, as well as laboratory investigations as the main modalities of learning. The course content for IB-SL Physics is designed to provide students with an introductory overview of Physics to serve as a foundation for later study of Physics at a college level.

THIS COURSE FULFILLS 'GROUP 4' REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

IB Biology I & II (Higher Level or Standard Level)

Prerequisite: Regents Biology

Grade: 11 and 12

Lab required in year 1 only

Unit: 1 credit

International Baccalaureate Biology (HL) will provide the student with the chance to study the dynamic field of Biology at an advanced level. This course will incorporate such content areas as Biochemistry, Evolution, Energy Transfer, and Ecology and relate them to the societal issues inherent in each.

International Baccalaureate Biology as a Group 4 experimental science will use a combination of interactive lectures, inquiry, presentations, examination of related literature from the field, as well as laboratory investigations as the main modalities of learning.

THIS COURSE FULFILLS ‘GROUP 4’ REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

Social Studies

Social Studies Learning Standards

Standard 1: Students will use a variety of intellectual skills to demonstrate their understanding of major ideas, eras, themes, developments and turning points in the history of the United States and New York.

Standard 2: Students will use a variety of intellectual skills to demonstrate their understanding of major ideas, eras, themes, developments and turning points in world history and examine the broad sweep of history from a variety of perspectives.

Standard 3: Students will use a variety of intellectual skills to demonstrate their understanding of the geography of the interdependent worlds in which we live - local, national and global - including the spatial distribution of people, places and environments over the Earth’s surface.

Standard 4: Students will use a variety of intellectual skills to demonstrate their understanding of how the United States and other societies develop economic systems and associated institutions to allocate scarce resources, how major decision-making units function in the US and other national economies, and how an economy solves the scarcity problem through market and non-market mechanisms.

Standard 5: Students will use a variety of intellectual skills to demonstrate their understanding of the necessity for establishing governments, the United States Constitution, the American governmental system, the governmental systems of other nations and international politics past and present.

Standard 6: Students will use a variety of intellectual skills to demonstrate their understanding of the basic civic values of American constitutional democracy; the roles, rights and responsibilities of citizenship; and the avenues of participation in American civic life.

Social Studies Courses

Global Studies 9

Prerequisite: None

Grade: 9

Full Year: Every day

Unit: 1 credit

Units of Study: (1) Geography, (2) Prehistory, (3) Ancient Civilizations, (4) Classical Civilizations, (5) Belief Systems, (6) Middle Ages, and (7) Renaissance.

Global Studies 10

Prerequisite: Global I

Grade: 10

Full Year: Every day

Unit: 1 credit

Units of Study: (1) Enlightenment, (2) An Age of Revolution, (3) A Half Century of Crisis and Achievement, (4) The 20th Century since 1945, (5) Global Connections and Interactions, and (6) Regents Review.

These courses provide students with the opportunity to study other nations and their cultures. The framework is designed to develop a global perspective. This approach aims to cultivate in students, knowledge and skills needed

to recognize and understand diversity, cultural pluralism, the reasons for international and domestic violence, and the growing phenomenon of global interdependence. 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. Students must pass the Global History and Geography Regents Exam in order to graduate from high school in New York State. The comprehensive exam is given at the end of 10th grade and encompasses all work from grades 9 through 10.

AP World History II

Prerequisite: Global I

Grade: 10

Full Year: Every day

Unit: 1 credit

The AP World History II course offers students an academic experience comparable to an introductory study of World History in college. The course is a full year commitment with the expectation that the students will take the Advanced Placement examination prepared by the College Board. The AP World History course is very different from the Global History and Geography I and II course. AP World History is not political narrative; students will learn to draw comparisons across cultures. The course offers some background of the foundations of civilizations but the primary focus is on the past 1000 years in global context including African, American, Asian, and European perspectives. There are six themes: global interaction, the relationship of change across time periods, impact of technology and movement of people, social structures, the development of culture and cultural diffusion, and the creation of varying political systems.

THIS COURSE IS STRONGLY RECOMMENDED FOR STUDENTS PLANNING TO ENROLL AS FULL DIPLOMA CANDIDATES IN THE IB DIPLOMA PROGRAMME.

United States History and Government

Prerequisite: Global II or AP World II

Grade: 11

Full Year: Every day

Unit: 1 credit

The rationale for placing an American History and Government course at the 11th grade level is to assure that all students, by the time they leave the basic social studies program, will have a good knowledge and values base, rooted in the historical tradition as well as a contemporaneous society. The course consists of the following topics: Constitution and Government, Industrialization, “Prosperity, Depression and War 1917-1940”, “Age of Global Crisis”, “A World in Uncertain Times, 1950 –Present,” and “Personal Finance.”

AP United States History

Prerequisite: Global or AP World

Grade: 11 - 12

Full Year: Every day

Unit: 1 credit

AP US History is open to juniors as an alternative to Grade 11, United States History and Government, and to seniors. This course is designed to provide students with the equivalent of a full year introductory college course in American History. In order to complete all the content assigned, the students are required to complete a summer assignment on colonial America. The syllabus for this course deals with the major issues in American History from the colonial period to the present with the greatest emphasis on the last century. The AP examination will be given in mid-May. Juniors will invest the remainder of the school year in preparing for the Regents examination while seniors will do an independent senior project. This course is co-seated with IB HOTA I.

Economics

Prerequisite: None

Grade: 12

Half Year: Every day

Unit: 0.5 credit

Economics is a semester course which includes an introduction to both micro and macroeconomics with emphasis on economics as a tool for decision-making as both a citizen and in one’s personal life. This semester course is required for high school graduation in New York State. The course deals with the following topics: (1) Decision

Making and Scarcity, (2) Comparing Economic Systems, (3) Institutions of the American Free Enterprise System, (4) Price Signals, (5) Income Distribution, (6) Business Organizations, (7) Labor, (8) Government, (9) Measuring the Economy, (10) Money and Banking, (11) Managing the Cyclical Instability, and (12) Growth and Consequences of Growth.

Participation in Government

Prerequisite: None
Half Year: Every day

Grade: 12
Unit: 0.5 credit

This semester course is required for high school graduation in New York State. This semester course is required for high school graduation in New York State. The primary purpose of the “Participation in Government” mandate is to facilitate and encourage the development of civil-minded individuals capable of effectively fulfilling the “office of citizen”, a fundamental precept of democracy and a right guaranteed by the 14th Amendment of the Constitution. This course emphasizes the interaction between citizens and government at all levels (local, state, and federal). The content is designed to encourage the analysis of public issues and to foster participation in the democratic process by a series of independent projects.

IB History of the Americas I (HL)

Prerequisite: Global Studies II or AP World
Full Year: Every day

Grade: 11
Unit: 1 credit

Co-seated with AP U.S. History and Government, History of the Americas (HOTA) provides students with an in-depth thematic study of the Americas. This course introduces students to history as a discipline and helps students understand the processes of historical inquiry. In this first year, students will delve into a comparative analysis of the importance of historical evidence and develop a better understanding of the various perspectives in the western hemisphere during the one hundred year period of 1870 - 1970. History of the Americas is a detailed study of the political, social, economic, and cultural history of the nations of the Americas. Students are introduced to history as part science in its approach to evidence and part art in recording and communicating its findings. History is the attempt made by professional historians to record and reconstruct the past through the study of evidence derived from a variety of sources. It is concerned with individuals and societies in the widest context; political, social, economic, and cultural. Students understand the nature of history and are able to manipulate primary sources to interpret and make sense of the historical record. This course along with Topics in Twentieth Century World History prepares students for the required Higher Level IB examination in History taken at the end of the senior year. **THIS COURSE IS REQUIRED FOR IB DIPLOMA PROGRAMME STUDENTS**

IB History of the Americas II (HL)

Prerequisite: IB HOTA I
Full Year: Every day

Grade: 12
Unit: 1 credit

This is the second year of the IB History of the Americas course. The course is a study of selected topics in Twentieth Century World History. The topics that have been selected include: 1. Causes, Practices and Effects of War, and 2. The Cold War. We will explore these issues in depth while emphasizing the IB standards of critical thinking and the treatment of history as an ongoing investigation. The course will also prepare students for the IB written exams that will be held in May.

THIS COURSE IS REQUIRED FOR IB DIPLOMA PROGRAMME STUDENTS. THIS COURSE FULFILLS ‘GROUP 3’ REQUIREMENT FOR IB DIPLOMA PROGRAMME STUDENTS

AP Psychology / IB Psychology (SL)

Prerequisite: None
Full Year: Every day

Grade: 11 - 12
Unit: 1 credit

AP/IB Psychology is an introductory college course in psychology that includes some of the following topics for study: Methods, Approaches and History, Biological bases of behavior, Learning, Motivation and Emotion, Developmental Psychology, and Social Psychology. The students are strongly encouraged to take the Advanced Placement exam and/or IB in Psychology in May. Following the exam, the students will be responsible for a research project until the end of the school year

THIS COURSE CAN BE USED TO FULFILL IB DIPLOMA PROGRAMME REQUIREMENTS

IB Theory of Knowledge I & II

Prerequisite: None, but preference is given to IB diploma students

Grade: 11 and 12

Two Years: Every Other Day

Unit: 0.5 credit each year

The aim of the Theory of Knowledge course is to engage students in reflection and in the questioning of the bases of knowledge so that they:

- Develop an understanding of why critically examining knowledge claims is important
- Develop a critical capacity to evaluate beliefs and knowledge claims
- Make interdisciplinary connections
- Become aware of the interpretive nature of knowledge including personal and ideological bases
- Consider that knowledge may place responsibilities of the knower
- Understand the strengths and limitations of individual and cultural perspectives
- Develop a concern for rigor in formulating knowledge claims and intellectual honesty

THIS COURSE IS REQUIRED FOR IB DIPLOMA PROGRAMME STUDENTS

Creativity Activity Service (CAS) IB

Prerequisite: None

Grade: 11 - 12

2 Years: Once a month

Unit: No credit

Creativity Activity Service (CAS) is a two year commitment involving students in a range of activities including arts and other experiences involving creative thinking, purposeful activities with significant outcomes, personal challenge, and unpaid voluntary service. CAS participation is guided by an advisor with monthly meetings-- students can complete creativity, activity, and service projects individually or in a group. Because each student has different goals and interests, CAS is very much self-guided. In order to receive a passing grade students must complete and document 150 hours of CAS. The course culminates with a presentation to the CAS advisor and panel of educators. Students who successfully complete the 2 year course will receive a certificate from the International Baccalaureate organization. **This course is required for IB Diploma Candidates and is optional for non-diploma candidates.**

Leadership in Action

Prerequisite: None

Grade: 11 - 12

Year: Every other day

Unit: .5 credit

This is a course designed to help students develop leadership skills, as well as provide leadership opportunities. Throughout the year students will learn different public speaking styles, and will then write and deliver speeches to their classmates and school community.

Students will also have an opportunity to interact with people in leadership roles in the school and community as they are brought in as guest speakers.

The course will also be 'hands on' in that students will propose and then carry out their own service projects throughout the school year. Students will have opportunities to be involved in roles such as project manager so that they can direct their peers toward the goal they have set.

While this course does not involve tests, or written assignments, it does require that students spend a significant amount of time outside of class working on their service projects, or attending community events. Students unwilling to work outside the class period are discouraged from participating in the course.

Technology

Mathematics, Science and Technology Learning Standards

Standard 1: Students will use mathematical analysis, scientific inquiry and engineering design, as appropriate, to pose questions, seek answers and develop solutions.

Standard 2: Students will access, generate, process and transfer information using appropriate technologies.

Standard 3: Students will understand mathematics and become mathematically confident by communicating and reasoning mathematically, by applying mathematics in real-world settings, and by solving problems through the integrated study of number of systems, geometry, algebra, data analysis, probability and trigonometry.

Standard 4: Students will understand and apply scientific concepts, principles and theories pertaining to the physical setting and living environment and recognize the historical development of ideas in science.

Standard 5: Students will apply technological knowledge and skills to design, construct, use and evaluate products and systems to satisfy human and environmental needs.

Standard 6: Students will understand the relationships and common themes that connect mathematics, science and technology and apply the themes to these and other areas of learning.

Standard 7: Students will apply the knowledge and thinking skills of mathematics, science and technology to address real-life problems and make informed decisions.

Technology Courses

Transportation

Prerequisite: None

Half Year: Every day

0.5 credit

Grade: 10 - 12

Unit:

In this course students will explore transportation from three perspectives: land transportation, marine transportation, and aerospace transportation. Students will study transportation through lab activities that include model airplane, canoe construction, and go karts (metal fabrications). This course is required for students pursuing a technology sequence.

Manufacturing

Prerequisite: None

Half Year: Every day

Grade: 10 - 12

Unit: 0.5 credit

This is a 20-week course that will develop students' ability to work with tools, machines, and materials. Students will study the history of manufacturing as well as modern traditional manufacturing processes.

Residential Structures/Architecture

Prerequisite: None
 Half Year: Every day

Grade: 9 - 12
 Unit: 0.5 credit

In the first half of this course students will explore the basics of architectural drawing and principles of structural design. During this class, students will design and plan a house of their own. At the completion of the first 10-weeks, each student will have a set of working drawings of a house they have designed using AutoCAD and/or REVIT software. The second half of this course will introduce students to concepts involved with Residential Home Construction. Students will be exposed to the following: blue print reading, foundation construction, residential framing, electrical and plumbing. Students will complete a scale section structural model of a modern residential framed house.

Design and Drawing for Production I (DDP I)

Prerequisite: None
 Half Year: Every day
 0.5 credit

Grade: 8 - 12
 Unit:

This course provides students with a solid background and introduction to the world of technical drawing and design for industry. Drafting skills learned early in the course will be exercised by drawing and design problems scheduled throughout the course. Students completing this course will obtain a solid foundation in AutoCAD 2019 and Inventor 19. Students will also use Mastercam X18 and be introduced to CNC.

**This course can fulfill the fine art requirement.*

Design & Drawing for Production II (DDP II)

Prerequisite: Design & Drawing for Production I
 Half Year: Every day

Grade: 8 - 12
 Unit: 0.5 credit

This course is offered to high school students after the successful completion of Design and Drawing for Production I. This course utilizes skills obtained in Design and Drawing for Production I. However, the course content of Design and Drawing II deals with more advanced design problems. Drawings created in this course will be completed using AutoCAD 2019 and AutoDesk Inventor 19. This course can fulfill the fine art requirement.

Computer Aided Design I (CAD I)

Prerequisite: DDP I, DDP II, Algebra
 Half Year: Every day

Grade: 8 - 12
 Unit: 0.5 credit

Students in this class will be using the Technology Computer Lab and AutoCAD 2019. Students in this lab will explore more advanced areas of AutoCAD that were not covered in DDP I and DDP II. Students will complete sample drawings from areas such as 3D CAD, Mastercam.. Upon leaving this class students will have a good idea of the overall flexibility and versatility of the power of this program to do advanced work. Students will also complete a project using the HAAS VF-1 CNC mill.

Computer Aided Design II (CAD II)

Prerequisite: CAD I, Algebra
 Half Year: Every day

Grade: 8 - 12
 Unit: 0.5 credit

In this course students will do an in-depth study and master select advanced areas of AutoCAD. Students taking this course must have completed DDP I, DDP II, CAD I, and Algebra.

IB Design Technology (Standard level)

Prerequisite: DDP I & DDP II
 Year: Every day for 2 Years

Grades: 11-12
 Unit: 2.0

International Baccalaureate Design Technology course will introduce students to how computer-based technologies have transformed the nature of the design and manufacture of products. This will be accomplished by starting with the study of Computer Aided Drafting, 3D solid modeling, and the development of Computer Numerically Controlled Machining (CNC). Students will see first-hand how vital these skills are in the modern manufacturing world.

Students enrolled in this course will gain a comprehensive knowledge of the design process from design conception to the final manufactured product. This will be accomplished by using the latest technology available in the areas of Computer Aided Drafting (CAD) and Computer Numerically Controlled Machining (CNC).

The final project/assessment will be based on CNC programming and machining. During this final assessment students will have to solve a problem that requires design accuracy and the proper operation of a CNC machine.

THIS COURSE CAN BE USED TO FULFILL IB DIPLOMA PROGRAMME REQUIREMENTS

Finger Lakes Technical and Career Center

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Reasons to enroll in a Technical and Career Program:

- Enrolling in quality programs that meet business/industry and New York State Learning Standards.
- Choosing from challenging technical and career programs that match student's interests.
- Learning through the integration of academic, technical, and employability skills.
- Meeting students from other school districts.
- Qualifying for a technical endorsement on your high school diploma.
- Achieving successful placement in the job market, the military, or a post-secondary institution.
- Learning in a hands-on environment.
- Earning college credit through articulation agreements available through all technical and career programs.
- Learning on state-of-the-art equipment.
- Taking advantage of workplace internships and career development activities.

Technical & Career Programs

AME Academy: Advanced Manufacturing & Engineering Academy

Prerequisite: None

Grades: 11-12

2 Years: Everyday

Unit: 4 credit per year

The academy is a two year program where students learn in-demand manufacturing skills, such as precision machining, computer aided design (CAD) and welding technologies. Students experience hands-on training of modern manufacturing technologies while following approved industry methods/processes and engineering standards. The culmination of this training will result in the students' ability to design, machine, weld and fabricate industry specific products. During year one students learn CAD software and are introduced to the machine shop & welding shop. In the second year students select an area of concentration in either Precision Machining or Welding Technologies.

Animal Science

Prerequisite: None

Grades: 11-12

2 Years: Everyday

Unit: 4 credit per year

Students interested in pursuing a career in veterinary technology or medicine and related fields receive instruction in animal science, pet care and grooming, small animal training, animal nutrition and

feeding, animal health care, and animal physiology. Internships with area veterinary hospitals are built into the curriculum.

Auto Body Repair

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

Students in the Auto Body Repair Program become skilled in the use of hand, power and special auto body tools and equipment in this course. Practical experience in minor and major collision repairs, which includes frame and body repair, auto finishing, removal and replacement of parts and sections of panels, is also provided. Welding skills are an important part of the program as well.

Automotive Technology

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

Automotive Technicians are in high demand. In Auto Technology, students learn to maintain and repair cars and light trucks using state-of-the-art electronic testing equipment and tools. The classroom is a facility similar to the service department of a typical auto dealership. Coursework is based on the National Automotive Technician Excellence Foundation (NATEF) standards which follow the Automotive Service Excellence Standards. Students receive instruction in four core areas; brakes, steering, suspension, electronic systems and engine performance.

Carpentry

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

The Carpentry Program is a combination of hands-on skill development and technical training that uses the most up-to-date equipment and resource materials. Students in this program are provided with basic knowledge of the tools, methods and materials used in carpentry. Activities include house framing, siding, roofing, installing doors, windows, stair building, installing drywall and interior and exterior trim. Also included are shop procedures, machine operation, cabinet/furniture making and installation, print reading, basic drawing and cost estimating.

Cosmetology

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

Cosmetology provides students with instruction in the competencies and skills necessary to take the NYS Board practical and written licensing exams. Students learn the skills of caring for hair, nails, and skin as well as the management techniques needed to operate an on-site clinic, which is open to the members of the community. The program, which includes one five-week summer clinic, provides the one thousand hours of instruction currently required for the New York State Licensing exam.

Conservation

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

Students interested in protecting, developing, and maintaining natural resources gain the necessary skills to do so in this program. Entry-level employment training is offered in the following areas: heavy equipment operation (bulldozer, backhoe, front-end loader, skid steer, dump truck, and equipment transport), commercial and urban forestry, landscape design, construction, maintenance and surveying. Students are also introduced to career areas in wildlife management, fisheries, biology, soil and environmental analysis. If appropriate, students have the opportunity to earn their NYS Commercial Driver's License (CDL Class B). The Conservation Program has received national certification through the National Center for Construction Education and Research (NCCER).

Criminal Justice

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

Criminal Justice course prepares students for a career in law enforcement and related fields. Students become familiar with New York State Laws pertaining to law enforcement, corrections, criminal procedure, and security functions. They also receive an overview of New York State courts and court systems, as well as courtroom testimony and demeanor. Techniques involving criminal investigations, patrol functions, firearms safety, self-defense, first aid, forensic science and civil disturbances are also covered.

Culinary Arts

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

Skills in menu planning; short order, fast food, specialty food preparation and presentation; quantity buying and equipment operation are gained by students in this course. Practical experience is obtained on a daily basis in the classroom and in a fully equipped commercial-style kitchen. Students prepare and cater several events on and off campus during the year. In the senior year, students demonstrate their skills through the operation of a café and fast food service on campus. This program is a member of New York State Restaurant Association (NYSRA) Educational Foundation ProStart Program.

Diesel Technology

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

The Diesel Technology program enables students to learn to repair, service and operate all types of industrial, agricultural and over-the-road diesel equipment. Skills are developed on equipment manufactured by Cummins, Detroit, John Deere, Mack, Case-International and Ford. Diesel fuel systems theory and repair for all the major manufacturers is also addressed. Training in welding, machining, diagnostics and vehicle maintenance are also covered.

Education Professions

Prerequisite: None
2 Years: Everyday

Grades: 11 – 12
Unit: 4 credits per year

The Education Professions will expand student's knowledge of the many career opportunities in the field of education. Students create age appropriate lesson plans and interact with young children in the center's community based, on-site preschool. In the senior year students have the opportunity to participate in an off-site, work based learning experience based on their specific fields of interest. Successful seniors may be able to apply for Level I NYS Teacher Assistant Certification.

Electrical Trades

Prerequisite: None
2 Years: Everyday

Grades: 11 – 12
Unit: 4 credits per year

The purpose of the Electrical Trades Program is to prepare students for entry-level employment in the various electrical trades. Throughout the program, students gain daily practical experience working with residential, commercial and industrial wiring. In addition, the students will have the opportunity to experience training to become a Network Cabling Specialist (C-Tech). The Electrical Trades program has received National Certification through the National Center for Construction Education and Research (NCCER).

Emergency Medical Services Academy

Prerequisite: None
2 Years: Everyday

Grades: 11 – 12
Unit: 4 credits per year

This program is a one or two year program that focuses on the skills required for certification in the field of emergency health care/ pre Hospital care. In addition, Students will participate in a 10 hour clinical experiences with a NYS certified ambulance service or at a hospital's Emergency Department or a combination of both. Student will experience a wide variety of situations that will allow them to see and experience the value of pre-hospital care in increasing the survival rate of people involved in trauma and suddenly occurring medical situations. The academy is designed to prepare junior students for Certified First Responder certification. Senior students successfully completing this program are able to take the New York State EMT practical skills exam. Passing the skills exam makes the student eligible to take the New York State written certification examination.

Farm to Table: Sustainable Agriculture Academy

Prerequisite: None
2 Years: Everyday

Grades: 11 – 12
Unit: 4 credits per year

Students who have the desire to learn how to grow crops, fruits, vegetables and livestock for ecology, food and fiber in a sustainable manner will engage in an interdisciplinary study with several other programs on campus including Animal Science, Culinary Arts, Carpentry, Conservation, and Diesel Technology. Striving to supply our basic needs while providing enough natural resources for future generations is the focus of all classwork and includes module topics of Agroecology, Animal Production,

Apiaries, Aquaponics, Ag Technology, Composting, Crop Production, Farm Business Management, Food Products and Processing, Gardening, Hydroponics, Orchard Care and Viticulture. Come join us in learning about this dynamic and fast growing part of Agriculture while spending time in our greenhouse, aquaponics and hydroponic centers, campus gardens, program barn and chicken coop and so much more.

Health Professions

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

If you are interested in a career in healthcare this is the class for you. Health Dimensions provides the basic knowledge and competencies considered common to all job titles in the health occupations field. Students will explore many areas of employment through discussion, field trips and hands-on experiences before choosing a specialized course of study. The second year provides the training, through clinical experience at area health care facilities, and education requirements needed to sit for the NYS Nurse Assistant Exam.

Graphic Media Production

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

This program teaches to the Macintosh Operating System national skills standard to provide instruction in design, layout and the reproduction of artwork in advertising. Students will receive Software instruction in Adobe Photoshop, Illustrator, InDesign, Dreamweaver and Flash. Both hand and computer illustration skills are developed. At the end of each year, each student will have completed a creative portfolio for use during employment searches and while on the job.

Computer Technology

Prerequisite: None

Grades: 11 – 12

2 Years: Everyday

Unit: 4 credits per year

This program will help students learn essential skills in computer software, hardware, operating systems, servers, web/game design and current trends in IT security and green technology. As a CompTIA learning Academy students can obtain the CompTIA strata IT Fundamentals credential. This is a vendor and technology neutral certification offered through a partnership with CompTIA. Students will also learn the skills to prepare for higher level CompTIA certification, including A+ and Network+ certifications.

New Vision Medical Careers

Prerequisite: Application
Full Years: Everyday

Grade: 12
Unit: 4.0 credits

New Vision Medical, currently offered in cooperation with Finger Lakes Regional Health Care System, Inc. in Geneva and Myers Community Hospital in Sodus, provides a “new vision” of applied academics and career education for high school seniors with an interest in medical careers. Students have the opportunity to examine, first hand, a full array of medical careers, from direct care to support services. Each student has a specific hospital assignment and will rotate through the various hospital departments. Successful New Vision completion involves specific academic requirements for which students will receive four units of credit, including 1 unit each of English and Social Studies 12.

New Visions Health Therapy Sciences

Prerequisite: Application
Full Years: Everyday

Grade: 12
Unit: 4.0 credits

A one-year program that follows the New Vision Model by offering students mentor supported internships at local hospitals, colleges and medical profession offices and introduces students to all aspects of Health Therapy Sciences including anatomy, especially the musculoskeletal system; fitness and flexibility; nutrition and weight management; safety, injuries, and injury prevention; cardiorespiratory endurance; exercise physiology; medical terminology; applied kinesiology (the study of human movement); and resistance and cardiorespiratory training programs/progressions. The New Vision Health Therapy Sciences Program is designed to prepare students for a wide variety of college majors related to health, physical activity, and sport. The program also serves as a stepping stone to further education in high demand medical careers.

Students will study and experience academics in an environment that uses an interdisciplinary approach to English Language Arts, Math, Science and Technology. Secondary English, Science, and Physical Education credits will be offered through an integrated model with FLTCC academic staff and the program instructor providing the instruction. Post- secondary dual credit agreement with Finger Lakes Community College will give students a head start on their college studies.

**Students apply to New Visions Programs during their junior year. See your counselor for applications, usually available in January.