

# LAKE SHORE

## Senior High School

### Curriculum Guide 2017-2018



Main Office  
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[LAKESHORECSD.ORG](http://LAKESHORECSD.ORG)

# Table of Contents

Academic Information .....	3
Academy of Business.....	5
Applied Engineering and Technology.....	7
Art.....	10
Business.....	11
English.....	13
Family & Consumer Science.....	16
Health/Physical Education.....	17
Math.....	18
Music.....	20
Science.....	22
Social Studies.....	24
World Languages.....	27
Career & Technical Education.....	29

# Academic

## Graduation Requirements

Required Courses	Regents Diploma	Advanced Regents Diploma
English	4 credits	4 credits
Social Studies	4 credits	4 credits
Mathematics	3 credits	3 credits
Science	3 credits	3 credits
Health	.5 credit	.5 credit
The Arts	1 credit	1 credit
World Languages	1 credit	3 credits*
Physical Education	2 credits	2 credits
Electives	3.5 credits	1.5 credits
<b>Total Required Credits</b>	<b>22 credits</b>	<b>22 credits</b>

## EXAMINATIONS – All Regents exams must be passed with a score of 65% and above

Course Examinations	Regents Diploma	Advanced Regents Diploma
RE English	√	√
RE Mathematics	√	√
2ns RE Mathematics		√
3rd RE Mathematics		√
RE Global History	√	√
RE US History	√	√
RE Science	√	√
2nd RE Science		√
World Languages	**	√***

\* = To earn the advanced designation, the student must complete one of the following: A Language Other Than English (3 credits), Career Technical Education Sequence (5 credits), or the Arts (dance, music, theatre and visual arts (5 credits)

\*\* = Students who complete Checkpoint A and one unit of study in a single language other than English no later than the end of 8<sup>th</sup> grade must pass the second language proficiency exam in order to earn one credit toward the high school diploma.

\*\*\* = Students taking a sequence of not less than 5 credits in career and technical education (CTE) or the arts may substitute another 3 credit or 5 credit sequence in place of the 3 credits in a language other than English.

## Diplomas

**Advanced Regents Diploma awarded with Honor** - Recipients must earn an **average score** of 90 percent or better on Regents examinations in Social Studies, English, Mathematics, Science, Foreign Languages, etc.

**Advanced Regents Diploma awarded with Mastery in Mathematics and/or Science** – Recipients must pass three commencement examinations with **a score of 85 or better** in mathematics and/or science.

**Advanced Regents Diploma** - Recipients must complete all New York State High School Diploma requirements while studying at a Regents level including passing Regents examinations.

**Regents Diploma** – Recipients must complete all New York State High School Diploma requirements while studying at a Regents level including passing all required Regents examinations.

**Regents Diploma awarded with Honor** - Recipients must earn an **average score** of 90 percent or better on Regents Examinations in Social Studies, English, Mathematics, Science, Foreign Languages, etc.

**New York State High School Diploma** – Recipients must complete all New York State High School course requirements and pass required New York State tests.

**Skills and Commencement** – This is awarded to Special Education students classified by the Committee on Special Education who meet the educational goals established for them by the committee.

### Class Grades

All grades are reported as a numerical grade. 65 percent is the minimum passing grade at Lake Shore High School. Use of grade reporting comments is optional for teachers except where a student earns a grade below 65 percent. **The minimum score during the first quarter is a 50, second quarter a 50, third quarter a 50, fourth quarter actual grade.** Final course grades are determined by averaging marking period grades with the final examination grade using a ratio of 4/5 to 1/5 respectively.

### Course Weight

High School Courses – 1.0 weight value  
 Honors Courses- 1.04 weight value  
 AP Courses – 1.06 weight value

### Report Card Average

High School report card average will be calculated by multiplying the grade times potential credit times added value divided by the sum of the potential credit.

### Honor / Merit Roll

Honor and Merit rolls are published following the 10th, 20th and 30th week grade reporting periods and following final grades in June. The following averages are required for honor and/or merit rolls:

<b>Merit Roll</b>	<b>85 - 89.99 percent</b>
<b>Honor Roll</b>	<b>90 - 100 percent</b>

## Class Rank

Students are ranked at the end of the year and a final class rank at the end of the seventh semester (midyear of senior year). Students transferring in their Senior year will receive an honorary rank. The High School end of the year class rank will be calculated by multiplying the grade times the potential credit times added weight value divided by the sum of the potential credit.

The seven semester (midyear of senior year) rank will be calculated by multiplying the grade times the potential credit times the added weight value for the completed courses plus the sum of Quarter 1 and Quarter 2 divided by 2 times added weight value and then multiplied by .5 divided by the sum of the potential credit for completed courses plus the sum of the potential credit times 2 for courses not completed.

**Seven Semesters (midyear of senior year):**

Completed Courses  
 (Grade x potential credit x added weight value)

Full Year Courses grade 12  
 (Grade x potential credit x added weight value/2 x .5)

**Divided by:**

(Potential credit)

(Potential credit x .5)

# Academy of Business

		Weeks / Credit	Prerequisite
<b>Ninth Grade</b>	Recruitment		
<b>Tenth Grade</b>	Strategies for Success	20/.5	Business Academy Student
	Banking & Credit	20/.5	Business Academy Student
	Microsoft Office **MCAS Certification**	20/.5	Business Academy Student
<b>Eleventh Grade</b>	Accounting ***	40/1	Business Academy Student
	BEEP (Business Education Employability Portfolio**)	20/.5	Business Academy Student
	AOBF School Bank	20/.5	Business Academy Student
<b>Summer Internship</b>	Paid (130 hours)	8/.5	Business Academy Student
<b>Twelfth Grade</b>	Business Ethics	20/.5	Business Academy Student
	Financial Planning	20/.5	Business Academy Student
	Economics AOBF*	20/.5	Business Academy Student
	AOBF Public Speaking*	40/1	Business Academy Student

\*Meets the English/Social Studies Economics Graduation Requirement

\*\*3 Credit hours from ECC

\*\*\*4 Credit hours from ECC

## Accounting

*“Accounting is the language of business.”*

This first year accounting course provides a thorough background in the basic accounting procedures used to operate a business. Students will have a basic understanding of accounting procedures, payroll records, basic debits and credits, cash and special journals, worksheets, adjusting and closing entries, financial statements and checking accounts. The student is introduced to computerized accounting applications, such as, Microsoft Excel and more. The instructor of this course is an Adjunct Professor at ECC. Students enrolled in this course are eligible to obtain **4 hours of college credit** through the Advanced Studies Department at ECC. Tuition is 1/3 the normal ECC cost and hours are fully transferable.

## Personal Finance Banking & Credit (PFBC)

This is a one-semester course presenting a survey of the principles of personal finance and the practices of banking and credit. Students will become familiar with the concepts and terminology relating to personal financial issues. They will also learn about the major functions of banks and other depository institutions, their in-house operations and procedures, central banking through the Federal Reserve System and modern trends in the banking industry. Students will take part in checking account simulation as well as complete an extensive budgeting project at the conclusion of the course.

## Business Education Employability Portfolio (BEEP)

**“This portfolio allows you to leave high school with not only an edge on others in the world of work and college, but also with a sense of pride and a record of your accomplishments.”**

The Business and Education Employability Portfolio, an electronic portfolio, will be compiled highlighting the student’s exemplary work and extracurricular activities during high school. The student’s career exploration, personal profile and academic records will also be included in the portfolio. Students will participate in a professional interview with local business partners and showcase their portfolios. This class prepares students for their summer internship. The instructor of this course is an Adjunct Professor at ECC. *Students enrolled in this course are eligible to obtain 3 hours of college credit through Advanced Studies Department at ECC at 1/3 the normal ECC cost.*

## Business Ethics

AOBF Ethics in Business is one of the core courses in our Academy of Business & Finance. This one semester course focuses on the important aspects of ethics as they apply to business decision making. In this class, we will focus on the significance and importance of ethics to stakeholders, examine who bears responsibility for ensuring an ethical code is followed, and explore ethical situations common in organizations. We will also investigate how ethics is used in various business disciplines, and consider the impact of an organization's culture and values on its ethical practices. The course also examines ethics as social responsibility and the increasing importance of ethics in the corporate world as business becomes more international. Finally, because ethics is critical to every organization, you will be given the chance to consider some of the different careers that require a strong background in ethics.

## Economics AOBF

This is a course in macro and micro-economics that provides an understanding of how our market economy functions in a global setting. It provides the students with a survey of economic concepts including all of the 22 basic principles recommended by the Joint Economic Council. In addition, a unit on capital markets acquaints the students with the role that various markets and securities play in our overall framework. Students will also be introduced to the stock market through the use of the on-line interactive Stock Market Game software. **NCAA Approved.**

## Financial Planning

This semester course will review and expand upon the concepts learned in PFBC, providing students with the knowledge of the financial planning process and the components of saving and investing. Students will create budgets, explore various investment vehicles such as stocks, bonds, mutual funds and IRA's and review various retirement plan options. Students will also learn the facts about trading on-line, purchasing insurance and understand some basic concepts of investing including "buying low and selling high," "not putting all your eggs into one basket" and the "Rule of 72."

## Microsoft Office

Computer skills are NOT a bonus anymore; they are an EXPECTATION in the workforce and college! Course emphasis is on word processing and spreadsheet applications utilizing Microsoft Office software. Students will be proficient in Microsoft Word and Excel and have the option to obtain Microsoft Application Specialist (MAS) Certifications giving them evidence of their proficiency (important to employers). Students will also be exposed to the fundamentals of Microsoft Access and Microsoft Powerpoint. This course will also explore integration between applications and use of the internet. The instructor of this course is an Adjunct Professor at ECC. *Students enrolled in this course are eligible to obtain 3 hours of college credit through the Advanced Studies Department at ECC. These hours are fully transferable to participating colleges and the tuition is 1/3 the cost of taking the same course on the ECC campus.*

## Public Speaking

This course is a basic introduction to public speaking; it is a necessity today to be able to present oneself in a professional manner at both interviews and on the job. In Public Speaking, students first and foremost learn a variety of techniques and practices to enable them to feel more comfortable and prepared when giving presentations of any kind. Specifically, students learn how to model, write and present a professional speech with relevance and eloquence. Students present a number of speeches and presentations in front of their peers on a variety of topics both personal and professional. Many forms of technology are utilized in their presentations as a means to better prepare them for the real world. (Meets English Requirement) **NCAA Approved.**

## Summer Internship

In the spring of Junior year students are required to apply for a summer internship opportunity. Students will gain on-the-job experience, earn compensation and explore career opportunities.

## Strategies for Success

Are you ready for the world of work? In this course, students will explore the characteristics of their personality, identify career goals, and practice interviewing techniques. Students will develop strategies for success in school and in life. They will develop goal setting strategies and leadership skills. Students will put together a career portfolio and start taking the necessary steps to determine a career path.

## Evans Bank Student Run Branch

Through a unique partnership agreement with Evans Bank, the Lake Shore High School Academy of Business and Finance operates a student run branch. This project provides an opportunity for Academy students to apply their skills and knowledge in a real setting. The general student population, faculty and staff will have the option to open checking and savings accounts and conduct their banking business on site. Academy students may receive up to 1 full business credit.

# Applied Engineering & Technology

Course Name	Weeks / Credit	Grades	Prerequisite
Drawing & Design for Production (DDP)	40 / 1	9-12	9th graders should have above average math/science skills
Computer Aided Drafting (CAD)	40 / 1	10-12	None
Digital Electronics	40 / 1	9-12	None
Advanced CAD / Manufacturing	40 / 1	10-12	DDP or CAD
Home Maintenance Repair	20 / .5	9-12	None
Electronics & Computer Repair	40 / 1	9-12	None
Exploring Technology & Manufacturing	20 / .5	11-12	Must be a junior or senior
Recording & Audio Production (RAP)	20 / .5	9-12	None
Video Production 1	20 / .5	10-12	None
Video Production 2	20 / .5	10-12	Video Production 1
Tech Applications	20 / .5	9-10	None
Photoshop Skills	20 / .5	9-12	None
Architectural Design / Modeling	40 / 1	11 or 12	DDP & CAD, Algebra & Geometry or instructor permission
Residential Structures	40 / 1	11-12	None

**Offered Every Other Year (even year)**

**Offered Every Other Year (odd year)**

Students that enroll in Applied Engineering and Technology Classes at Lake Shore are open to several opportunities. The most obvious, is a well-rounded overview of technology and its applications in today's society. The underlying benefits of several classes also include a head start towards a technical career combined with the opportunity to earn college credits through Advanced Studies with ECC. Any sophomore, junior, or senior will obtain a transcript through ECC that most colleges will accept if the student receives a grade of 2.0 or higher, saving students time and money as they begin their college educational experience.

## Drawing and Design for Production DDP

Drawing and Design for Production is a class based on creative thinking, decision making processes, problem solving activities, and the design process. Students will combine these to come up with solutions to real world problems. Possible solutions are generated using 3-D software (Inventor by AutoDesk) and then turned into prototypes. Projects are developed using a variety of skills involving sketching, printing, plotting, 3-d printing, modeling and creation of prototypes.

***\*Students taking this course receive Technology Credit as well as satisfying the Art/Music credit requirement.***

***\*This course may be available for College Accreditation with ECC for any Sophomore, Junior, or Senior.***

***Restrictions apply.\****

## Computer Aided Drafting CAD

This introduction to AutoCAD software and AutoCAD drawing techniques will allow students to learn the skills necessary to manipulate AutoCAD to solve basic drafting and design problems. Units of study include the importance of geometry in drawing, orthographic drawing, perspective drawing, assembly drawings, isometric drawing, sectioning, and proper dimensioning techniques.

***\*This course may be available for College Accreditation with ECC for any Sophomore, Junior, or Senior. Restrictions apply.\****

## Digital Electronics

Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras and high-definition televisions. Students are introduced to the process of logic design, engineering standards and technical documentation found in many of the electronic circuits and devices that have become part of our everyday lives. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices in this class.

***\*This course may be available for College Accreditation with ECC for any Sophomore, Junior, or Senior. Restrictions apply.\****

## Advanced CAD and Manufacturing

The world of manufacturing has changed and will continually progress at a rapid pace. This course will introduce students to the direct relationship of 3-D modeling and manufacturing. Students will create 3-D parts and models using Autodesk Inventor software and then create working models through hands-on activities related, but not limited to, the craftsman approach, rapid prototyping, 3-D printing, laser cutting and engraving, and computer controlled machining. Students will not only create drawings and projects, but will also generate code to control 3-axis machinery such as CNC mills and routers.

## Home Maintenance / Repair

Have you ever wired a light, plumbed a sink, tiled, painted, or fixed something around the house. Well what are you waiting for? Anyone can watch it on TV, but it's more fun doing it for yourself, and more rewarding also! Students will get "hands on" training on a variety of tools and power equipment used to do projects in areas such as basic wiring, basic plumbing, installation and maintenance of home appliances, remodeling principles, home safety, etc. Projects will reflect these areas and the interest of students as well.

## Electronics & Computer Repair

Electronics and computers have become a part of our everyday life, but do you know how and why they work? Nearly every technical occupation requires some understanding or background in electronics or computers. This course is designed to give students a better understanding of general terminology and electrical safety, along with projects revolving around the basics of soldering, circuit testing, creation of circuit boards, electric motors, electronic fabrication and basic electrical repair. Once these general concepts have been learned, students will learn to assemble, diagnose, maintain and repair a common PC. Students will also learn to build a PC from scratch.

## Exploring Technology & Manufacturing

How are things made? What processes go into creating the everyday products we use? Many of the same processes are used to produce automobiles and computers. Many local manufacturing companies are looking for people to fill skilled manufacturing jobs. This course will introduce students to a variety of different careers associated with these types of skills, and how to pursue further studies in these areas. The class will visit local manufacturing sites and create projects that are relevant to skills needed to get started in manufacturing in our local area.



## Recording & Audio Production RAP

Sound Recording & Live Sound Production is the sister industry to the Video, Gaming and Telecommunications industry. Students will learn techniques used in live music/theater set up and operation, recording music, TV and movie sound. Microphone types and techniques, production practices, mixing and mastering sound will be taught in our “state of the art” Mac lab using software apps such as Garage Band, Soundtrack Pro and various other audio editing programs. Projects will include recording songs by real bands and artists, working with sound loops, creating ring tones and creating soundscapes. Learn how to make your own guitar or mic. cable.

### Video Production I

Video and digital media is all around us, from websites like You Tube and Facebook, to actual professional TV shows and movies. You will be introduced to digital video and learn how the pros record, edit and produce audio/video productions. You will also work on the weekly Eagle News magazine show which is seen throughout the district. Production and editing takes place in our TV studio and use software such as *Final Cut Pro Studio* and DVD Authoring.

***\*This course may be available for College Accreditation with ECC for any Sophomore, Junior, or Senior. Restrictions apply.\****

### Video Production 2

In addition to the concepts learned in Video Production 1 you will learn how to create special effects like “green screen” and music video techniques. Movie and TV uses dialog and action video techniques to tell stories. You will too. You will also work on the weekly Eagle News magazine show which is seen throughout the district. Production and editing takes place in our TV studio and use software such as *Final Cut Pro Studio* and DVD Authoring. Video Production 1 is required unless you get instructors permission.

***\*This course may be available for College Accreditation with ECC for any Sophomore, Junior, or Senior. Restrictions apply.\****

## Technical Applications

Have you stopped to think how some of the simplest things you do every day actually happen? Everything you do, everything that is human made, is the way it is today because of the advancements in Technology. This class will introduce you to different ways of tooling and developing products in wood, metal, plastics, or any other material that may peak interest. Students will learn to plan and process materials to produce useable products that they will take home.

***\*This course may be available for College Accreditation with ECC for any Sophomore, Junior, or Senior. Restrictions apply.\****

## Photoshop Skills

Many current jobs use Adobe PhotoShop to create and manipulate photos, print and computer graphics, textile design. In this course you will master the basics in PhotoShop through project work that includes web images, photographic touch up and restoration, print poster, t-shirt design and vinyl graphics. You will learn how to use the PS tool palette, layers, filters, masks, channels and gradients.

## Architectural Design / Modeling

Topics include the history and cultural influences of architecture from around the world, tools and techniques of architectural design, aesthetics, site planning, room planning, floor plans, section views and more. Students will design and develop sketches and prints for typical situations in residential settings using sketching and AutoCAD software. Students will also create scaled models for visual representation of the plans they have created. Basic construction techniques will also be discussed.

## Residential Structures

Are you interested in construction or becoming a carpenter? Then try your hands at the world of construction and learn the basics about building projects such as tool sheds, decks, and additions. Projects will be based on the strengths of both, individuals and teamwork, as on the job site, and will become useful structures within our community. Students will learn about proper tools, materials, codes and careers relating to the building trades.

# Art

Course Name	Weeks / Credit	Grades	Prerequisite
Studio in Art	40/1	9—12	None
Drawing & Painting	40/1	10—12	Studio in Art (75% avg. or greater)
Painting	40/1	10—12	Studio in Art (75% avg. or greater)
Sculpture	40/1	10—12	Studio in Art (75% avg. or greater)
Contemporary Crafts	40/1	10—12	Studio in Art (75% avg. or greater)
Graphic Design	40/1	10—12	Studio in Art (75% avg. or greater)
Digital Photography	40/1	10—12	Studio in Art (75% avg. or greater)

## Studio in Art

Studio In Art provides students with the fundamentals of the art-making process. It is a hand -on, project -based course, which encourages students to develop their creativity through individual expression. Students will learn basic techniques of drawing, painting, sculpting and printmaking. All students interested in art, regardless of experience, are encouraged to take this course. This course satisfies the Regents requirement of 1 credit in art.

*Students attaining a 75% average or higher in Studio In Art will meet the prerequisite to take any upper level art course.*

## Drawing & Painting

This is an intermediate art course in which students learn to handle a broad range of drawing and painting media, including pencil, charcoal, pastel, conte crayon, acrylic, gouache, etc. This is a hands-on course where students will explore line, shape, space, value and texture. The main focus of the course is on developing compositional skills. Various composition types will be studied as a method for translating concepts and ideas into two-dimensional visual images.

## Painting

This advanced painting course will study and explore multiple painting media and techniques. Students will research and experiment with different methods of compositions in painting. The course will expand on the students' knowledge of the elements and principles of design, color theory, and use of specialized techniques. Students will work with watercolor, acrylic, and oil painting media. The class will focus on the compositional development of still life, landscapes, and contemporary genre. The exploration of individual painterly techniques and styles will be encouraged.

## Sculpture

Sculpture class allows students to focus on the creation of three-dimensional form to express their creative ideas. Students will participate in a hands-on experience creating artworks "in-the-round". By using aesthetic and technical experiences, new forms and ideas will evolve. Students gain dexterity, sensitivity, and control over a wide range of materials and processes, including plaster, stone, wire, clay, wood, etc. Methods of making sculpture will include additive and subtractive processes encouraging the students to express ideas in three-dimensional space.

## Contemporary Crafts

The fine art aspects of decorative and functional crafts are examined in this class. Students will explore crafts as a means for self-expression and aesthetic design through glass, textiles, sculpture, painting, and altered journals. Glass fusing, copper etching, papermaking, mosaic, and felting are a few of the techniques that will be explored in class.

## Graphic Design

This course introduces the interaction of text and image and the fundamental components of graphic communication. Projects include logo and poster design along with photo manipulation and digital illustration. Students will learn how to use the programs Adobe Photoshop and Adobe Illustrator as they create solutions to a series of design problems.

## Digital Photography

This course provides students with an introduction to digital photography followed by more advanced techniques in short video montage. The course will focus on camera techniques and functions of both digital SLR's and point and shoot cameras. Students will combine compositional techniques with elements and principles of design for the creation of still photography and video shorts. Adobe Photoshop and Adobe Premier Pro is used to enhance and manipulate imagery.

# Business

Course Name	Weeks / Credit	Grades	Prerequisite
Accounting	40/1	10-12	None
Personal Keyboarding	20/.5	9-12	None
Business Law	40/1	9-12	None
Personal Finance	20/.5	9-12	None
Internet & Web Design	20/.5	9-12	None
Principles of Business	40/1	9-12	None

## Accounting

*“Accounting is the language of business.”*

This course is a must for students considering a college major in business, as well as those with an interest in accounting as a career. This accounting course provides a thorough background in the basic accounting procedures used to operate a business. Students will have a basic understanding of accounting procedures, payroll records, basic debits and credits, cash and special journals, worksheets, adjusting and closing entries, financial statements and checking accounts. The student is introduced to computerized accounting applications, such as, Microsoft Excel and more. The instructor of this course is an Adjunct Professor at ECC. Students enrolled in this course are eligible to obtain **4 hours of college credit** through the Advanced Studies Department of ECC. These hours are fully transferable and the tuition is 1/3 the cost of taking the same course on the ECC campus. **(ECC Course ID – BU121)**

## Personal Keyboarding

The purpose of this course is to teach students fundamental keyboarding skills. The main focus will be on proper keyboarding technique, speed and accuracy. Students will also be introduced to Microsoft Word and Excel. They will use the software to prepare entry-level business documents and reports as well as personal documents. Note: this course can be used as the prerequisite for Advanced Keyboarding with a teacher recommendation.

## Business Law

The purpose of this course is to give students a broad understanding and application of business law as it will relate to his or her personal, family, and occupational life. The student will have a general knowledge of pertinent business law as he or she encounters various situations at work and/or home. Some of the topics covered include: contractual law, the law of torts, criminal law, and minors and employment.

## Personal Finance

Financial literacy is an important tool for every individual to enjoy financial freedom. Students who take the course will gain the skills to manage their finances. They will be able to identify the components of the five-step financial process, examine the significance of goal setting and decision-making within the financial planning process and develop financial goals and budgets to meet financial goals while understanding the importance of using and managing credit wisely. The goal of this class is to help students learn how to responsibly and effectively manage their money for the rest of their lives.

## **Internet & Web Design**

The purpose of this course is to serve as an introduction to the Internet and Web Design. We will focus on gaining an understanding of the history of the Internet, protocols, browsers, HTML, and web page and site design using Adobe's Dreamweaver application. Students will learn how to conduct effective web searches as well as create their own personal web sites. Each student will plan, design, and create professional Web pages.

## **Principles of Business**

The purpose of this course is to introduce the students to the business world and the many roles they play in it. The course serves as an introduction and background for other business courses. Topics covered include; basic principles of economics, types of business ownership and the advantages & disadvantages of each, and computers and technology in the business world. Practical business topics that relate to everyday life such as how to be a smart consumer, banking, saving & investing, budgeting and using credit make this a course that can be applied to every student's life.

# English

Course Name	Weeks / Credit	Grades	Prerequisite
Freshman Seminar	40/.5 (meet alternate days)	9	English 8
English 9	40/1	9	English 8
English 9 Honors	40/1	9	Recommendation based upon 8th grade course work
English 10	40/1	10	English 9
English 10 Honors	40/1	10	English 9 Honors
English 11	40/1	11	English 10
AP Literature	40/1	11	English 10 Honors
English 12 Honors/ECC 110 College Composition	40/1	12	English 11 with teacher recommendation or AP Literature
Coming of Age 12	40/1	12	English 11
Epic Journey 12	40/1	12	English 11
Poetry & Creative Writing 12	40/1	12	English 11
Public Speaking—Academy of Business	40/1	12	English 11/Academy students only

## Freshman Seminar

This seminar is a mandatory ELA elective that coincides with the objectives set in *The Lake Shore Freshman Academy*. In *the Lake Shore Freshman Seminar*, students will learn basic study, social, organization and life skills that are essential in order to be successful in and after high school. This course is designed to be a positive, hands-on and collaborative environment where students will work together to foster professional communication (verbal and written) skills that will be applied in the classroom, at home and later in the workplace. Using the skills and lessons gained in this course, students will graduate on time with their cohort; together, we can make it happen!

## English 9

The purpose of this course is to immerse students in full-length literature, focusing on the use of literary elements by authors and the development of themes over longer narratives. Students will be introduced to poetic forms, the fundamentals of research, and writing for clarity, purpose and accuracy. Students will read and analyze at least four novels in addition to a wide range of poetry and shorter texts. Grade 9 begins preparation for the ELA Regents Exam by focusing on listening skills and informational writing. **NCAA Approved.**

## English 9 Honors

The purpose of this course is to bridge students from young adult literature into the literary canon, laying the foundation for success throughout the Honors/AP program. Students will develop critical thinking and writing skills, conduct self-directed research, and read a wide range of sophisticated literature, learning to apply a variety of literary techniques to these discussions. Students will focus on writing with purpose and clarity. Students will read and analyze at least six full-length literary works, in addition to a wide range of poetry and other shorter works. **NCAA Approved.**

## English 10

The purpose of this course is to further develop skills introduced in English 9. Reading and studying literature of recognized merit, students will develop critical reading and writing skills, focusing on literary analysis of more sophisticated texts. Students will read and analyze at least five full-length literary works, in addition to a wide range of poetry and shorter texts. Grade 10 continues preparation for the ELA Regents Exam by adding critical interpretation to writing skills achieved in Grade 9. **NCAA Approved.**

## English 10 Honors

The purpose of this course is to encourage students to examine literature both more carefully and more critically. Students will read a variety of college-level texts, applying a wide range of sophisticated literary elements to their discussion and understanding of these works. Students will compose extended responses of greater than 5 pages, in addition to many shorter analysis papers, individual and group presentations. Students will read and analyze at least six full-length literary works, in addition to a wide range of poetry and shorter texts. **NCAA Approved.**

## English 11

The purpose of this course is to encourage students to seek mastery of skills introduced in English 9 and 10, reading and analyzing full-length literature of recognized merit. Students will hone critical reading and writing skills, focusing on literary and comparative analysis of sophisticated texts to complete their preparation for the ELA Regents Exam. Students will read at least six full-length novels and plays in addition to a wide range of poetry and shorter texts. Students will take the English Language Arts Examination at the end of English 11. **NCAA Approved.**

## AP Literature

The purpose of this course is to deepen the study of literature that students began in English 9 and English 10 Honors. Students will read and analyze at least eight full-length novels or plays, in addition to a wide range of poetry and short stories, as part of a broad chronological study of major movements and literary works in British literature from the 1600's to the present. The expectations for the amount and quality of class discussion, research, written work and reading will be similar to that of an introductory college course. Students will develop the skills of close reading and analytic writing that will be tested on the AP Literature and Composition exam, which all students are expected to take in May. **NCAA Approved.**

## English 12 Honors / ECC 110 College Composition

The purpose of this course is to encourage students to examine writing from a rhetorical viewpoint. In this college-level class, students will engage with literature in what will be a new way, for most, as they study the “how” of language as opposed to a primary focus on the “what”. Students will examine the intended purpose or the writer, and identify the skills and techniques the writer uses to achieve that purpose. While the course mostly focuses on non-fiction, students will study literature that spans various regions and time periods, and within an array of genres, responding in writing as well as through debate, discussion, and presentation. A documented research paper is required. **Seniors with teacher recommendation may take for English 12 credit. Students enrolled in this course have the opportunity to earn 3 college credits through Erie Community College’s Advanced Studies Program. NCAA Approved.**

## Coming of Age 12

In this full-year course preparing students for college or careers beyond high school, students will explore how characters in literature face major life transitions, examining how experience shapes who we are. Students will develop memoirs focusing on multiple stages of drafting, culminating in an extensive portfolio of memoirs and other reflections. Students will complete one research paper. **NCAA approved.**

## Epic Journey 12

In this full-year course preparing students for college and careers beyond high school, students will study a variety of fiction and non-fiction works, focusing on epic journeys that are physical, emotional, or psychological. Authors ranging from Laura Hillebrand (Unbroken) to Holocaust Survivor Gerda Weissman Klein will be studied. Students will complete one research paper. **NCAA Approved.**

## Poetry and Creative Writing

In this full-year course preparing students for college and careers beyond high school, students will examine a wide range of creative writing, exploring the writing process (from draft through publication) and examining the full range of literary elements from the perspective of the writer. Students will develop an extensive portfolio of original literary pieces. Students will complete one major research project . **NCAA Approved.**

## Public Speaking—Academy of Business and Finance

Public Speaking for the Professional World prepares students with the many presentation skills necessary for the professional and post-high school environment. Specifically, students will learn how to outline, write, practice and present multiple thematic and extemporaneous speeches and presentations using the latest forms of technology for the college/business world on various topics and perspectives. Students will learn how to constructively critique and analyze both their own work and presentations, and speeches delivered by their peers and professionals alike through written and verbal analysis. In addition, students will learn how to properly research and debate controversial and contemporary world issues using standard college-debate outlines and procedures. They will learn, practice and apply college-level vocabulary, English grammar and punctuation to enhance their writing and presentation skills. Finally, students will create a virtual documentary incorporating written, technological and verbal presentation skills to be shown to professionals as a culminating assessment. **NCAA Approved.**

*Academy students only.*

# Family & Consumer Science

Course Name	Weeks / Credit	Grades	Prerequisite
Introduction to Foods	40/1	9–12	None
Nutrition with Gourmet Flair	40/1	10-12	Introduction to Foods
Child & Human Development	40/1	9–12	None
Independent Living	20/.5	10–12	None
Clothing, Housing & Textiles *	40/1	9–12	None

\* Meets the state requirement for Art: (1 credit)

## Introduction to Foods

Contents of this course include nutrition, safety and sanitation, and preparation of a variety of foods. Food labs will be based on meal planning, meal service and preparation. Basic principles include measuring, abbreviations, equivalents, kitchen equipment and food preparation techniques. It is recommended that students take this class before moving on to advanced food courses.

## Nutrition with Gourmet Flair

This is an in-depth study of food preparation that focuses on nutrition concepts and advanced cooking techniques. Food labs will introduce healthy alternatives and new cooking techniques. Topics discussed in class will be healthy lifestyles as well as food trends from around the world. It is recommended that students take Introduction to Foods before taking this class.

## Child & Human Development

Students will study various stages of development from pre-natal through adulthood. Emphasis will be placed on teen issues, dating, family, parenting roles and responsibilities. Various projects will be part of this class.

## Independent Living

This course identifies the challenges teens face as they assume adult responsibilities. General day to day living skills such as baking, credit card responsibilities and budgeting will be explored. Planning for future housing will be covered, as well as obtaining auto and health insurance.

## Clothing, Housing and Textiles

Exploration of the culture, history and fashion cycles of clothing and housing will be discussed in this class. Clothing design, house choices and construction will be included. Students will be responsible for creating a piece of clothing as part of the clothing portion of this class. **THIS COURSE CAN BE COUNTED AS AN ART CREDIT.**



# Health / Physical Education

Course Name	Weeks / Credit	Grades	Prerequisite
Health	20 / .5	9—12	None
Physical Education	40 / .25 every 20 weeks	9—10	None
Physical Education	40 / .25 every 20 weeks	11—12	None

## Health

Health education examines the eleven major conceptual areas recognized by the New York State Health Education syllabus. The course will allow high school students to take a close look at their own current state of health and take all the necessary steps to make health lifestyle changes and adopt healthy lifestyle behavior in order to reach optimal health. Understanding the seven dimensions of health (physical, emotional, social, intellectual, spiritual, occupational, and environmental), and improving health related behavior is the focus throughout the course. The New York State parenting curriculum is also covered during this course.

## Physical Education

The Physical Education Department will provide intensive instruction in the motor and self-management skills needed to enjoy a wide variety of physical activity experiences, including competitive and non-competitive activities. Students will design a personal fitness program to improve cardio-respiratory endurance, flexibility, muscular strength and body composition.

# Mathematics

Course Name	Weeks / Credit	Grades	Prerequisite
Intro to Algebra 1	40 / 1	9	Enrolled in 8th grade math and recommendation by 8th grade Math teacher
Intro to Geometry	40 / 1	10 or 11	Satisfactory completion of Algebra I
Intro. To Algebra 2	40 / 1	11	Satisfactory completion of Geometry
Algebra 1	40 / 1	9 or 10	Satisfactory completion of 8th grade Math and recommendation by 8th grade Math teacher or successful completion of Intro. To Algebra 1
Geometry	40 / 1	9 accelerated or 10 or 11	Satisfactory completion of Algebra 1 and Algebra Regents Exam
Exploring Computer Programming	40 / 1	11 / 12	Satisfactory completion of two years of math
Algebra 2	40 / 1	10 accelerated or 11	Satisfactory completion of Algebra, Geometry and their Regents exams plus teacher recommendations
Calculus	40 / 1	12	Satisfactory completion of Algebra II / Trigonometry or Intro to Algebra 2
College Calculus	40 / 1	11 accelerated or 12	Satisfactory completion of Algebra II / Trigonometry and teacher recommendation
AP Calculus	40 / 1	12	Satisfactory completion of Calculus and

## Introduction to Algebra 1

This course is designed for students who need to build on 8th grade algebra skills before transitioning into the **Algebra 1** course. **Intro to Algebra 1** will allow extensive opportunity to practice basic algebraic skills and provide a stronger foundation for the topics tested on the Regents Exam in Algebra I (common core). To see these topics please refer to the **Algebra 1** course description. A school final will be given in June. Upon successful completion of this course, students will move to **Algebra 1** for their next year of math.

## Introduction to Geometry

This course is designed for students who need extra support before Geometry or complete the 3-year mathematics requirement for graduation. Topics covered in this course include properties of quadrilaterals, proofs and solid geometry. A school final is given at the end of the course.

## Introduction to Algebra 2

This course is designed for students who need support before entering Regents level Algebra 2. This course will prepare students to take Algebra 2 in that it covers many of the same topics as Algebra 2 but at a slower pace. Students are encouraged to complete Algebra 2 during their senior year for an Advance Regents diploma. Students will take a school final at the end of the course. **NCAA Approved.**

## Algebra I

This course is a minimum requirement for graduation in New York State. Strong emphasis is placed on Algebraic thinking and seeing structure in expressions. Arithmetic operations with polynomials and rational functions, creating equations to model functions, and reasoning with equations and inequalities are the roots of the course. Mathematical practices are also emphasized. The Regents Exam in Algebra (Common Core) will be given at the end of the course in June, aligned with the Common Core Learning Standards. **NCAA Approved.**

## Geometry

The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in Geometry classes. For example, transformations are emphasized early in this course. Close attention should be paid to the introductory content for the Geometry conceptual category found in the high school CCSS. Students will take the Geometry Regents Exam (Common Core) after the completion of this course in June. **NCAA Approved.**

## Exploring Computer Programming

Students will explore many avenues of programming such as programming on the graphing calculator, 3D animation programming through Alice and robotics programming using Lego Mindstorms EV3. Students will also gain a basic understanding of HTML web design and JavaScript.

## Algebra 2

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. Students will take the Algebra 2 Regents Exam (Common Core) after the completion of this course in June. **NCAA Approved.**

## Calculus

This course, Calculus is designed as a college preparatory course. This course approaches math topics from a different view. Students deduct how formulas and equations are written. Topics include: a graphing project, exponential rules, matrices and a basic introduction to calculus that include limits in derivatives. A school final exam is given at the end of the course. **NCAA Approved.**

## College Calculus

This course includes limits, continuity, derivatives and integrals and all of their applications. Exponential, Trigonometric, and logarithmic functions are studied in addition to polynomial functions. The course will be less rigorous than AP Calculus. Through a partnership with ECC students may apply to obtain 4 college credits for Calculus. There will be a school final given at the end of the course. **NCAA Approved.**

## AP Calculus

This course expands upon the concepts learned in Calculus with special attention to applications of limits, continuity, derivatives and integrals. It is equivalent to science based Calculus I, II and some Calculus III college courses. Appropriate college credit can be earned with successful achievement on the AP exam given in May. A school final is also given at the end of the course. **NCAA Approved.**

# Music

Course Name	Weeks / Credit	Grades	Prerequisite
Mixed Chorus	40 / 1	9–12	None
iMusic	40 / 1	9-12	None
Popular Guitar / Piano Class	40 / 1	9-12	None
AP Music Theory	40 / 1	9–12	Participation in a performing ensemble, teacher recommendation (basic keyboarding skills are recommended but not necessary)
Concert Band	40 / 1	9 – 12	None
Symphonic Band	40 / 1	9 – 12	Student audition in Spring and teacher recommendation
Symphony Orchestra	40 / 1	9–12	None

**Music Lessons:** All students enrolled in band and orchestra are required to attend one music lesson per week. The lessons are set up on a rotating basis to minimize the amount of other class disruptions. Music teachers will prepare and distribute lesson schedules to all students and high school teachers.

*1 credit in music meets the state graduation requirement for art*

## Mixed Chorus

The purpose of this course is to teach students advanced skills needed for participation in a vocal ensemble through rehearsal and performance. During rehearsals students will be exposed to various types and styles of choral literature. In addition to rehearsals, every chorus student may be scheduled for a 1 period lesson each week. The mandatory choral performances average 5-6 times per school year, which will make up a major part of each student’s chorus grade. **This course satisfies the N.Y.S. mandated arts credit for music leading to an Advanced Regents Diploma.**

## iMusic

The purpose of this new-age course is to provide instruction in today’s popular music using the newest available technology. Students will listen to, evaluate, and create music through the use of this new technology and applications. The content of this course includes but is not limited to:

“Behind the Music” biographical study of popular music artists, film music, DJ composition/mixing, Floccabulary (current events study through hip-hop music videos), and more!

**This course satisfies the N.Y.S. mandated arts credit for music leading to an Advanced Regents Diploma.**

## Popular Guitar / Piano Class

The purpose of this course is to provide group instruction on guitar and at the piano keyboard. The emphasis of this course is on reading and playing chord charts, basic tablature, and piano melody with simple chord accompaniment. The content of this course includes but is not limited to: basic hand position, five-finger patterns, music reading skills, contemporary pop, rock, hip-hop/rap, and classic rock genres, evolution of the rock genre, examination of rock artists of the past and present, guitar and piano technique, tuning, ensemble playing, practice skills, and various performance opportunities. **This course satisfies the N.Y.S. mandated arts credit for music leading to an Advanced Regents Diploma.**

## AP Music Theory

The goal of AP Music Theory is to instill mastery of the rudiments and terminology of music, including hearing and notating pitches, intervals, scales and keys, chords, meter, and rhythm. Building on this foundation, the course should progress to include more sophisticated and creative tasks, such as melodic and harmonic dictation, composition of a bass line for a given melody, implying appropriate harmony, realization of a figured bass and Roman numeral progressions, analysis or repertoire, including melody, harmony, rhythm, texture and form, sight-singing. **Students who enroll in this course WILL be prepared to take the Advanced Placement Music Theory Exam offered in early May of each school year for possible college credit. This course satisfies the N.Y.S. mandated arts credit for student musicians designed to satisfy the Regents requirement for Music and/or Art leading to a Regents Diploma.**

## Concert Band

The purpose of this course is to teach students advanced skills needed for playing various musical instruments as well as participation in an instrumental ensemble through rehearsal and performance. During rehearsals students will be exposed to various types and styles of instrumental literature. In addition to rehearsals and performances, every band student is scheduled for one 1 period lesson each week. Students will also participate in mandatory instrumental performances approximately 5 times per school year, which will make up a major part of each student's band grade. Any student interested in learning a band instrument (no experience necessary) should sign up for this course. Any student new to taking an instrument should contact the Music Department and may need to arrange for an instrument rental for the year. **This course satisfies the N.Y.S. mandated arts credit for music leading to an Advanced Regents Diploma.**

## Symphonic Band

The Senior High Symphonic Band consists of the top high school wind and percussion instrumentalists. Students are eligible for acceptance based upon a detailed spring audition prerequisite, recommendation from the band director, and available chairs within the specific instrumentation guidelines for the ensemble. In addition to rehearsals, every band student is scheduled for one 1 period lesson each week. The band performances average approximately 6 per year, solo preparation, small group ensemble, and student mentoring are required and make-up a major part of each student's grade. ***Solo preparation for in school performance and/or at ECMEA Solo Festival is required.* This course satisfies the N.Y.S. mandated arts credit for student musicians designed to satisfy the Regents requirement for Music and/or Art leading to a Regents Diploma.**

## Symphony Orchestra

The purpose of this course is to teach students advanced skills needed for playing various string instruments as well as participation in an orchestral ensemble through rehearsal and performance. During rehearsals students will be exposed to various types and styles of orchestral literature. In addition to rehearsals and performances, every orchestra student is scheduled for at least one 1 period lesson each week. Students will also participate in mandatory orchestral performances approximately 4 times per school year, which will make up a major part of each student's orchestra grade. Any student interested in learning a string instrument (no experience necessary) should sign up for this course. Any student new to taking an instrument should see Mr. Molik and may need to arrange for an instrument rental for the year. Any current band students are also encouraged to take orchestra to fill out the orchestral winds, however; you MUST be enrolled in band first to also participate in orchestra. **This course satisfies the N.Y.S. mandated arts credit for music leading to an Advanced Regents Diploma.**

# Science

Course Name	Weeks / Credit	Grades	Prerequisite
Introduction to Biological Sciences	40 / 1	9	Satisfactory completion of 8th grade science. Teacher recommendation.
Exploring Diseases	40 / 1	11-12	Satisfactory completion of science classes
Forensics / Environmental Science	40 / 1	11-12	Satisfactory completion of science classes
Earth Science Regents / Physical Setting	40 / 1	9	Satisfactory completion of 8th grade science. Teacher recommendation.
Living Environment Biology Regents	40 / 1	10	Satisfactory completion of Earth Science or Intro Biological Science
Chemistry Regents / Physical Setting	40 / 1	11	Current enrollment in Geometry. Trigonometry is recommended.
Physics Regents / Physical Setting	40 / 1	10 & 11 Accelerated, 12	Algebra and Geometry, Trigonometry and higher-level math are highly recommended
AP Biology	40 / 1	11-12	Living Environment/Biology, Physical Setting/Chemistry and Algebra along with teacher recommendation
AP Chemistry	40 / 1	11-12	Physical Setting/Chemistry, upper level math, and teacher recommendation
AP Physics 1	40 / 1	10-12	Upper level math and teacher recommendation

## Introduction to Biological Sciences

This course is intended to prepare the student for later Regents level work in Living Environment/Biology. This “pre- regents” course will cover basic lab skills in measuring, observing and organizing data and the writing of lab reports. Reading comprehension, scientific writing and an overview of basic principles of Living environment including human environmental biology will be emphasized. Students will be enrolled in this course based on recommendations from 8<sup>th</sup> grade science teachers and guidance counselors. Upon successful completion of Introduction to Biological Science, the student will enroll in Living Environment/Biology Regents the following year.

## Exploring Diseases

This course will review past as well as current diseases around the world. We will look at the causes of disease and how they evolved through history. Treatments and prevention will be studied. The Zika Virus, Ebola, Measles outbreak in Disney World are a few examples of topics for discussion. The course is designed for students wishing to take additional sciences beyond what is required and can be taken concurrently with another science course. This course meets one period per day.

## Forensics Science / Environmental Science

This course is intended as a third year choice for non-lab science students or as an elective for students concurrently enrolled in a Regents lab science. This course will cover basic environmental processes, the human impact on these processes, and environmental ethics. This course can be used to complete the graduation requirement for a third year of science when a lab science is not recommended. Forensic Science will present the scientific principles of laboratory and field methods that forensic scientists use to solve problems. Students will take on the various roles of crime scene investigator, scientists and medical examiner in order to collect and evaluate evidence in a problem-solving environment. **NCAA Approved.**

## Earth Science Regents / Physical Setting

This course of study investigates the earth model, its history, process of change, the earth's energy budget, and the rock cycle, leaving the student with the concept that we live in a dynamic earth which is constantly changing. This is a laboratory science and a written record of a minimum of 1200 minutes of lab work is a prerequisite for sitting for the Regents final exam. Lab meets every other day for one period. **NCAA Approved.**

## Living Environment Biology Regents

This is a laboratory science leading to a Regents Level sequence in science. This course is designed to provide a broad understanding of the principles of life. Topics include maintenance of plants and animals, human anatomy and physiology, reproduction and development, genetics, evolution, biochemistry, and ecology. As in all Regents Level Science courses, a written record of a minimum of 1200 minutes of lab work is a prerequisite for sitting for the Regents final exam. This laboratory course meets 3 periods in each 2-day rotation. **NCAA Approved.**

## Chemistry Regents / Physical Setting

This is a laboratory science leading to a Regents Level sequence in science. This course represents a modern view of Chemistry based on topics that include atomic structure, bonding, mathematics of chemistry, kinetics and equilibrium, acid/base theories, oxidation/reduction, organic chemistry, nuclear chemistry and the application of the principles of reaction. A written record of a minimum of 1200 minutes of lab work is a prerequisite for sitting for the Regents final exam. This laboratory course meets 3 periods in each 2-day rotation. **NCAA Approved.**

## Physics Regents / Physical Setting

This is a laboratory science leading to a Regents Level sequence in science. This course includes concepts such as motion, light, sound, energy, electricity, magnetism and the atom. Since a better understanding of mathematics is required, physics is usually taken as a senior subject. As in all Regents Level Science courses, a written record of a minimum of 1200 minutes of lab work is a prerequisite for sitting for the Regents final exam. **NCAA Approved.**

## AP Biology

This course is designed to be the equivalent of an introductory college course with lab for Biology majors. It aims to provide students with up to date concepts, facts, and skills necessary to deal critically with biological issues as well as an introductory experience with writing and testing at the collegiate level. By scoring a 3, 4 or 5 on the AP Exam in May, students may show themselves qualified to receive college credit. Depending on the college and the student's score and degree program, AP Bio may be used as a prerequisite for upper-level courses, or as fulfillment of a basic degree requirement for a lab-based science course. Meeting time: 3 periods in each 2-day rotation. **NCAA Approved.**

## AP Chemistry

This course is taught at a collegiate level, comparable to College Freshman Chemistry, with the intent that all students will take the AP exam in May. It is for students who have maintained at least a B average in all previous sciences and have completed Physical Setting/Chemistry. Since there is a heavy emphasis on problems and problem solving, the student should also be proficient in mathematics. This course is an in-depth study of chemical theories, principles and mechanisms. Meeting time: 3 periods in each 2-day rotation. **NCAA Approved.**

## AP Physics 1

This is a 2-semester, non-calculus sequence that may be taken as a first or second year physics course. A good algebra background is a plus for being successful in this class. Students will be expected to take the AP Physics 1 exam in May. The course will also offer college credit opportunity through Niagara University (NU) with up to 4 credits per semester. **NCAA Approved.**

The first semester course is Mechanics-based covering topics such as: Kinematics, Newton's laws of motion, work, energy, momentum, rotational motion, fluids and electrostatics.

The second semester course topics include: electricity, magnetism, fluids, simple harmonic motion, waves, light, optics, and modern physics.

# Social Studies

Course Name	Weeks / Credit	Grades	Prerequisite
Global History 9	40 / 1	9	Social Studies 8
Global History 10	40 / 1	10	Global History 9
Honors Global History 10	40 / 1	10	Global History and Geography I
United States History and Government	40 / 1	11	Global History and Geography I and II
American History Honors	40/1	11	Recommendation by Social Studies faculty
Participation in Government	20 / .5	12	None
Economics	20 / .5	12	None
Introduction to Sociology	20 / .5	11-12	None
International Political Relations	20 / .5	11-12	None
Seneca Iroquois Studies	40 / 1	9-12	None
Native American Culture through Film	40 / 1	11-12	Taken or currently taking U.S. History
Global History & Geography AIS Lab	20	10-12	Teacher/Counselor Recommendation
Leadership in Action***	40 / 1	10-12	Teacher Recommendation

\*\*\*Elective Credit

## Global History 9

The purpose of this course is to prepare students to take the Regents examination in Global History. It is the first year of a two-year course of study. During their sophomore year, students study Global History and Geography II. At the conclusion of the two-year course, students will take a Regents Examination covering the content and skills from both years. The units of study covered in the students' freshman year are Introduction to Global History, the Ancient World, Expanding Zones of Exchange and Encounter, Global Interaction, and the Age of Absolute Monarchs. The study of the geography of the world is an integral part of each unit in the course. **NCAA Approved.**

## Global History 10

The purpose of this course is to prepare students to take the Regents examination in Global History. It is a continuation of the course Lake Shore students take in their freshman year. The units of study covered in the students' sophomore year are The Age of Revolution, Industrialization and Imperialism, the World at War, and Perspectives on the Present. The study of the geography of the world is an integral part of each unit in the course. Students review for the Regents examination in Global History and Geography which will be administered in June. **NCAA Approved.**

## Honors Global History 10

This is an advance level Global Studies 10 course. Teacher recommendation is required. The purpose of this course is to prepare students to take the Regents examination in Global History. It is a continuation of the course Lake Shore students take in their freshman year. The units of study covered in the students' sophomore year are The Age of Revolution, Industrialization and Imperialism, The World at War, and Perspectives on the Present. The study of the geography of the world is an integral part of each unit in the course. Students review for the Regents examination in Global History and Geography which will be administered. **NCAA Approved.**



## United States History and Government

The purpose of this course is to prepare students to take the Regents examination in U.S. History. The units of study covered in the students' junior year are the U.S. Constitution, and trends in and the history of the United States from the Civil War to the present. Students review for the Regents examination in U.S. History, which will be administered in June. **NCAA Approved.**

## American History Honors

This is an advance level U.S. History & Government 11 course. Teacher recommendation is required. The purpose of this course is to prepare students to take the Regents examination in U.S. History. The units of study covered in the students' junior year are the U.S. Constitution & Government as well as the history of the United States from the Civil War to the present. Students will be required to complete research papers in which they will develop an argument supported by analysis of historical evidence. Students review for the Regents examination in U.S. History & Government which will be administered in June. **NCAA Approved.**

## Participation in Government

This course is one half of a state mandated two course sequence in the Social Studies necessary for graduation. The units of study covered in the students' senior year are comparative political and economic systems, the American constitutional system, the Bill of Rights, constitutional interpretation and controversial constitutional and contemporary issues. As future voters, students will discuss issues ranging from voter behavior to American political philosophies and the future of national politics. Open forum debate and discussion is a major feature of the class. Students will be required to complete periodic essays on political issues demonstrating their understanding on constitutional principles. A final issue paper and political party project are required to successfully complete the course. Students who are of age will register to vote at the conclusion of the class. **NCAA Approved.**

## Economics

This course is one half of a state mandated two course sequence in the Social Studies necessary for graduation. The units of study covered in the students' senior year are basic economic concepts within American society, principles of macroeconomics, principles of microeconomics, and a comparison will be made between the American economic system and economic systems used by other nation-states. Students will be required to complete a project examining the stock market. **NCAA Approved.**

## Introduction to Sociology

Introduction to Sociology introduces students to the study of human society and social behavior. The units of study covered will include such topics such as culture, violence, deviance, social control, socialization and personality, social class, social institutions, global wealth and poverty, family and religion. The course will be taught using college levels texts and material, and will prepare students who are considering taking sociology as either a major or minor in college. Frequent and ongoing forum debate and discussion of the material is a consistent feature of the class. Each student will actively be involved in social experiments and observations as well as group research projects and presentations. A final exam is required to complete the course. **NCAA Approved.**

## International Political Relations

**Offered through Erie County Community College** as a college course, successful completion of the course will earn the student three undergraduate credits towards a program of study at ECC or elect to transfer the credit to another college. International Political Relations is designed to introduce students to the theme of world politics and the evolution of political systems. The units of study covered include the major theories and analytical tools used in the study of international relations, nationalism and national interests, power and force as instruments of international politics, war and terrorism, international law in particular human rights, North-South issues, the role of international organizations, and progress in the resolution of global, economic, social and environmental problems. Frequent and ongoing forum and debate of the material is a consistent feature of the class as well as a variety of present day simulations. Each student will be responsible for periodic research and critical analysis of current event topics as well as group research projects and presentations. A final exam is required to complete the course. **NCAA Approved.**

## Seneca Iroquois Studies

The purpose of this course is to acquaint students with Native American origins and culture. The units of study covered include Longhouse villages, the Great Law of Peace and the Confederation, the first contacts between the Iroquois and Europeans, the Covenant Chain, use of wampum, treaty relationships, loss of independence, Handsome Lake and Revival, the Buffalo Creek Disaster, land claims, and contemporary Iroquois culture and society. The course also features guest lecturers on Haudenosaunee culture and history. **NCAA Approved.**

## Native American Culture Through Film

Native American Culture through Film is a two-semester history/film studies course that connects the essential elements of global and American studies, archaeology, anthropology, technology, and film. Using Native Americans as a focus group, students explore films that flow from pre-European contact to popular culture within the Native communities. Students get a more in-depth look into the Native American realm of study, which is often covered quickly within the historical studies. Students also look more closely at the videos for film components and qualities.

## Global History & Geography AIS Lab

Global History & Geography AIS (Academic Intervention Services) Lab is a half-year course for students who need additional help and preparation for taking the NYS Global History & Geography 10 Regents Examination. We will be reviewing the material from 9th and 10th grade Global History and Geography courses as well as completing activities to boost study skills and knowledge for the Regents examination. Students that are enrolled in the fall will be studying and preparing to retake the Global Regents Examination in January. If students pass the exam in January they will be eligible to exit out of the course. If students do not pass the exam in January, they will repeat the course and retake the exam again in June. Students enrolled in the spring AIS Lab will also include 10<sup>th</sup> graders who need additional help and preparation for taking the exam for the first time in June. Good attendance in this class is crucial for increasing your ability to pass the Global History 10 exam.

# Elective Credit

## Leadership in Action

This elective class is designed for the student interested in learning the basic concepts of leadership including: group processes, leadership practice and planning, and organization in practical school situations. It affords the student the opportunity to develop leadership, human relations, communication, time management, teamwork, budget, project planning, and implementation. The grading for this class is based on two major projects that must benefit the school and/or community in addition to class work and tests.

# World Languages

Course Name	Weeks / Credit	Grades	Prerequisite
French 2	40 / 1	9	Successful completion of level 1 & NYS Proficiency examination or equivalent
French 3	40 / 1	10	Successful completion of level 2 L.O.T.E. or equivalent
French 4	40 / 1	11	Successful completion of level 3
French 5	40 / 1	12	Successful completion of level 4
German 2	40 / 1	9	Successful completion of level 1 & NYS Proficiency examination or equivalent
German 3	40 / 1	10	Successful completion of level 2 L.O.T.E. or equivalent
German 4	40 / 1	11	Successful completion of level 3
German 5	40 / 1	12	Successful completion of level 4
Seneca 1	40 / 1	9	none
Seneca 2	40 / 1	9	Successful completion of level 1 & NYS Proficiency examination or equivalent
Seneca 3	40 / 1	10	Successful completion of level 2 L.O.T.E. or equivalent
Seneca 4	40 / 1	11	Successful completion of level 3
Seneca 5	40 / 1	12	Successful completion of level 4
Spanish 1	40 / 1	9	none
Spanish 2	40 / 1	9	Successful completion of level 1 & NYS Proficiency examination or equivalent
Spanish 3	40 / 1	10	Successful completion of level 2 L.O.T.E. or equivalent
Spanish 4	40 / 1	11	Successful completion of level 3
Spanish 5	40 / 1	12	Successful completion of level 4

## **Spanish 1, Seneca 1**

This course is an introductory course in a second language. Emphasizing comprehension and production of written and spoken language, students will be introduced to fundamental vocabulary and grammar. Students are introduced to culture and traditions of target culture. As one year of L.O.T.E. is required in New York State for the Regents High School diploma, students seeking the Regents diploma and enrolling in Lake Shore, with no prior second language study, will need to successfully complete either Seneca 1 or Spanish 1. Successful completion of course occurs with a passing final average. **NCAA Approved.**

## **French 2, German 2, Spanish 2, Seneca 2**

This course continues study of the second language at the High School level from Middle School level 1. Comprehension and production of written and spoken language will continue to be emphasized. Students will receive continued instruction in vocabulary and grammar through thematic units designed to develop fluency. Cultural knowledge of the target culture will be enriched. In second year language study, students will gain greater confidence in producing both spoken and written language. Spoken and written fluency will be developed through informal presentations, group activities, and interactions with peers and familiar adults. Successful completion of course occurs with a passing final average. **NCAA Approved.**

## **French 3, German 3, Spanish 3, Seneca 3**

This course continues study of the second language at the High School level from High School level 2 classes. *New York State Comprehensive Regents Examination is offered at the conclusion of this course. Successful completion of Regent's examination and this course, meet NYS L.O.T.E. requirements for earning a Regents diploma with Advanced Designation.* Students will study a curriculum developed along current NYS standards for study of a language other than English. Students will develop reading comprehension with authentic materials including selected readings, newspapers, and advertisements. Everyday spoken fluency will be developed through conversational activities. Students will engage in written activities increasing skills in writing notes, informal and business letters, as well as reports in the target language. Listening comprehension activities are structured around realistic situations presented through audio and video-cassette recordings. Students will be introduced to increased numbers of idiomatic expressions, increasing interaction and exposure through song, poems, and everyday language. Completion of this course is required before students may take NYS Comprehensive Regents Examination. Successful completion of course occurs with a passing final average and passing grade on final examination. **NCAA Approved.**

## **French 4, German 4, Spanish 4, Seneca 4**

This course introduces students to advanced second language study. Students will develop knowledge of more advanced language by studying higher level grammar, increasing spoken and written language, and completing thematic projects. Areas of study may include: history, literature, art, music, story telling, and film. An in-depth study of culture allows students to understand and accept differences in life style and manners in target country, allowing for increased understanding of culturally acceptable behaviors and customs. Students develop spoken language increasing accuracy in routine social interactions. Students needing to take or re-take the Regents examination can continue to develop their language skills. This course provides the final element of a sequence in second language study, providing student has passed Regents examination. Successful completion of course occurs with a passing final average. **NCAA Approved.**

## **French 5, German 5, Spanish 5, Seneca 5**

Level five language study offers students the opportunity to improve language skills enabling them to continue study at other educational institutions. Students will study advanced literature, culture, film, music, and traditions of target culture. Students will develop fluency in conversation and composition. Student comprehension of spoken and written language will be increased through exposure to more advanced authentic material. Upon completion of this course, it is expected that students will: understand essential points in conversations and presentations on familiar topics, handle most communicative situations with confidence, read excerpts of literature for pleasure, begin to analyze materials written for the general public, compose organized and well-developed texts on everyday topics, and demonstrate ease in using culturally appropriate behaviors. All students enrolled in this course must complete the final examination. Students enrolled in French 5, German 5, and Spanish 5 may opt to receive three (3) units of credit from Hilbert College (Hamburg, NY). This will prepare them for further study and may meet any College level L.O.T.E. requirements. **NCAA Approved.**

# Career & Technical Education

Lake Shore Central is a component district of the Erie 2/Chautauqua/Cattaraugus BOCES, which offers Career and Technical education programs for all 29 component districts. Since not all programs are available at every ECCB educational center, Lake Shore students must be bused to the center offering the program they select.

## CAREER AND TECHNICAL EDUCATION CENTERS

**LAKE SHORE CARRIER TECHNICAL CAREER CENTER** – The Carrier Center is located on the same campus as Lake Shore High School.

**LOGUIDICE CENTER** – The LoGuidice Center is located in Fredonia, New York which is approximately a 30 minute bus trip from Lake Shore High School.

Career and Technical programs are two years in length and students are usually enrolled during their last two years of high school. Each program offers 4 units of credit for each year of study. Students who enroll in a Career and Technical program are out of the high school for about one half of the school day. The current schedule is:

<b>LAKE SHORE HIGH &amp; CARRIER CENTER</b>	AM Level 1 (12 <sup>th</sup> Grade) PM Level 2 (11 <sup>th</sup> Grade)
<b>LOGUIDICE CENTER</b>	AM Level 1 (11 <sup>th</sup> Grade) PM Level 2 (12 <sup>th</sup> Grade)

Home School CTE and Integrated Academic Credit Distribution for students enrolled in an Approved Program. Core Academic Credit Distribution is based on the New York State CTE collaborative teaching model for integrated academics.

### Junior Year

### Senior Year

2.5 Units	CTE	1.5 Units	CTE
.5 Unit	CTE Integrated Math	1 Units	CTE Technical Writing
.5 Unit	CTE Integrated Science	.5 Unit	CTE Integrated Math
.5 Unit	Integrated CFM*	.5 Unit	CTE Integrated Science
		.5 Unit	Integrated CFM*
4 Units of Credit		4 Units of Credit	

\*Career and Financial Management

**SPEICAL NOTE: Credit granted by Lake Shore for Math, Science and English is at the end of the two-year program. The following courses are offered at one of the two Educational Centers:**

# Lake Shore Career Center

## Agriscience / Aquaculture

This program highlights the recent evolution of farming into a highly technological and scientifically based profession. Aquaculture is one of the fastest growing facets of the agricultural industry and is used in this course to fuel an indoor farm, where the principles of agriculture can be taught and practiced through the cold, winter months. The topics covered in agriscience include agricultural engineering, light to heavy equipment operation, animal science, agronomy, soil science, welding basics, biotechnology, horticulture and hydroponics. An additional section of the aquatic facility is dedicated to fisheries management such as breeding, hatching and raising native species for release. The combination of these related disciplines allows students to possess the highly desired skills and foundation to seek a career in, or to continue their education in fisheries resource management, hatchery technician, all aspects of farming/agriculture and fisheries biology.

## Computer Industry Professional Certifications (a.k.a. Info. Tech.)

Instruction will focus on computer hardware and operating systems. Students will prepare to take the industry recognized COMPTIA A+ Exams. Students will receive training in Computer Science theory and introductory level computer networking as well as preparing students for careers around COMP TI A+ Network + Certification and Microsoft Office Specialists/Master Certifications. (2-year program)

## Cosmetology

This program offers both theory and practical experience necessary to be employed as an entry-level Cosmetologist. Safety, professional image, decontamination, anatomy, haircutting, perming, chemical hair relaxing, hair coloring, braiding, nail and skin care, makeup, and salon management are topics covered in the curriculum. Second year students participate in a clinic open to the public. Students completing the two-year program are prepared for the New York State Licensing Exam, which requires 1000 practicum hours. Upon licensing, students are certified to work in the areas of hair care, nails, and aesthetics. (2-year program)

## Criminal Justice

Students in this program are provided a general background in the history of Criminal Justice. Students receive instruction pertaining to legal terminology and practical application of communication skills necessary for a career in law enforcement. The security occupations studied include: private, federal, state, and local agencies. Students are provided an in-depth approach to the study of criminal justice issues through case law, as it applies to the constitutional issues, law enforcement, courts, and corrections. Students also participate in mock trials and related scenarios. Students are provided CPR/First Aid training and receive certification for the New York State Eight-Hour Security Guard Program.

Participation in an internship with a criminal justice agency is also a requirement. (2-year program)

## Culinary Arts

The essential components of the food service industry are presented. These include: menu planning, food preparation, cutting techniques, conversion of recipes, equipment identification, baking, cost analysis, ice carving, dining room service, as well as banquet and buffet skills. Culinary principles with emphasis on soups, sauces, and stocks are thoroughly practiced. Areas of study from the hospitality industry include: hotel and food service purchasing, skills required for successful employment at inns, resorts, and on cruise ships. In addition, training in sanitation, hazard analysis critical control points (HACCP) principles, and kitchen safety are offered. Students are prepared for future employment and/or enrollment at post-secondary schools specializing in the culinary industry. (2-year program)

## Heating and Air Conditioning

Instruction in the principles and fundamentals of heating, air conditioning, and refrigeration is applied to fabrication, installation and troubleshooting situations for these various systems. Students learn how to work with electrical testing equipment, plastic, steel and copper pipe and tubing, sheet metal, hand tools, and specialized tools of the trade. (2-year program)

## Small Animal Science

Students develop specialized skills in veterinary assistance, the care and handling of animals in a laboratory setting, dog grooming, and more. In addition, students develop basic and advanced dog grooming skills through an in-class “Doggie day care” program through which dogs are brought to the clinic by the Lake Shore community. (2- year program)

# LoGuidice Center

## Auto Body Repair

In the Auto Body Repair program students develop skills in straightening, aligning, replacing, filling, welding, cutting, painting, buffing, and sectioning. This is a challenging and rewarding program for students who enjoy working with their hands. Students learn to operate the basic and specialized tools and equipment used in the varied Auto Body repair facilities. (2-year program)

## Automotive Technology

This is the technical occupation in greatest demand. The program follows the challenging ASE guided diagnosis and repair curriculum with hands-on experience on modern automobiles covering the most common high tech systems. Successful students will complete an internship at a dealership during their senior year and may receive Advance Placement SUNY college credit. (2-year program)

## Construction Technology

Areas included in this program are rough and finished carpentry, masonry, plumbing, heating and electrical. Students acquire skills for entry-level work or post-secondary education. Students also receive instruction in construction procedures, such as the use of power and specialized tools and equipment, footings and foundations, framing, roofing, siding, stair construction, interior and exterior finishing, blueprint reading, and estimating. Given experience in each trade area, students can make an educated choice based on personal interests and abilities. (2-year program)

## Health Careers

The Health Careers program will enable the student to acquire the skills and knowledge necessary to pursue a full range of career opportunities in the Health Care Industry. This course focuses on a strong academic foundation, communication, employability skills, legal responsibilities, ethics, safety practices, health maintenance practices, and technical skills. Students will study basic anatomy and physiology, diseases/disorders, medical terminology, nutrition, geriatric, child development, infection control, and pharmacology. Students learn to assist with routine patient care, perform basic nursing procedures, and function as part of a health care team. The Health Careers curriculum is designed to give students instruction that may lead to New York State Nurse Aide and CPR certifications as well as meeting the high school Health Education requirement. Internships at participating health care facilities and post-secondary institutions will expose students to a full range of opportunities in the health care industry. (2-year program)

## Welding / Metal Fabrication

This program provides valuable entry-level skills for employment in the welding and metal fabrication industry and a foundation for advanced levels of study. A wide range of areas are covered, including a variety of welding techniques and blueprint reading. (2-year program)

## Conservation / Natural Resource Management

The Conservation/Natural Resource Management Program prepares students for a wide variety of careers involving the development and protection of Earth's natural resources. Instruction takes place both inside the classroom and in an adjoining shop, but students are able to augment their studies inside the greenhouse and outdoor lab that includes both forest, grade cultivation fields, and areas for heavy equipment operation and practicing. (2-year program)