

LAKE SHORE

Senior High School

Curriculum Guide 2019-2020



Main Office
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LAKESHORECSD.ORG

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Academic

NYS Core Curriculum 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

Lake Shore expects all students to take a minimum of 6.5 credits annually

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 8th 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:

Merit Roll	85 - 89.99 percent
Honor Roll	90 - 100 percent

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)

Advanced Placement Courses

Advanced Placement Courses gives students the chance to tackle college-level work while they're still in High School and earn college credit and placement.

*Student can elect to receive college credit through Niagara University in place of the AP Exam

Course	AP Score	College Credit
AP U.S. History	AP depends of a score 3-5	Varies
AP Chemistry	AP depends of a score 3-5	Varies
AP English Literature	AP depends of a score 3-5	Varies
AP Biology	AP depends of a score 3-5	Varies
AP Calculus	AP depends of a score 3-5	Varies
AP Music Theory	AP depends of a score 3-5	Varies
AP Physics *	3 credits NU AP depends of a score 3-5	Varies and Niagara University

Advanced Studies Program

The Advanced Studies Program is an opportunity for high school students to enroll in college courses and receive college credit. The program is open to all high school juniors or seniors of average or better academic ability (Sophomore students may be recommended by their teacher or school counselor.)

Advanced Studies Program-SUNY Erie

Course	College Credit
College Calculus MT 175	4 Credits
English 12 Honors EN110	3 Credits
International Political Relations GO103	3 Credits
DDP-ADV-CADD-DF 109	2 Credits
Video Production I & II-TE 222	4 Credits
Photoshop-GA 131	2 Credits

Advanced Studies Program

The Advanced Studies Program is an opportunity for high school students to enroll in college courses and receive college credit. The program is open to all high school juniors or seniors of average or better academic ability (Sophomore students may be recommended by their teacher or school counselor.)

Advanced Studies Program-SUNY Erie-Academy of Finance

Course	College Credits
Microsoft Office –DA 106	3 Credits
Accounting-BU 121	4 Credits
BEEP-GS111	3 Credits

Advanced Studies Program-Hilbert College

Course	College Credits
Spanish 5	3
German 5	3
French 5	3

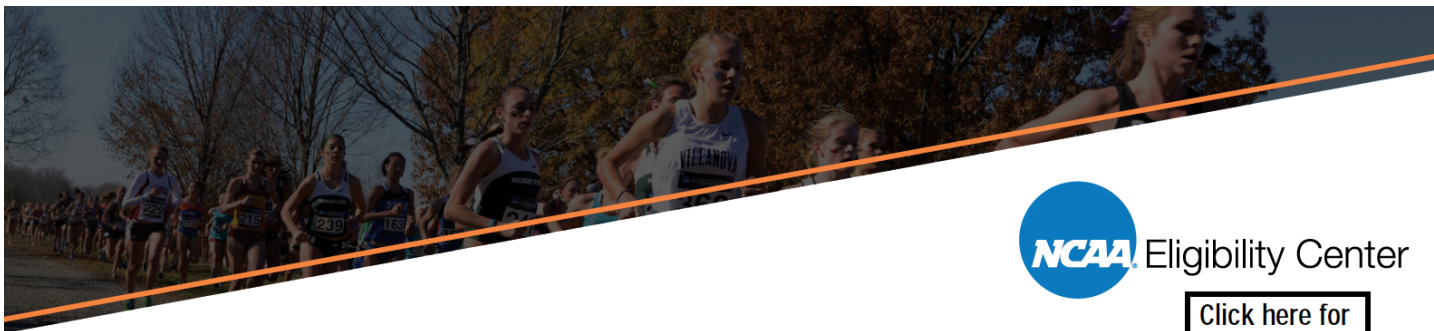
NCAA Approved Courses

English
AP Literature
Coming of Age 12
English 10
English 10 Honors
English 11
English 11 Honors
English 12 Honors
English 9
English 9 Honors
Poetry and Creative Writing 12
Public Speaking AOBF
The Epic Journey 12

Social Studies
AP US History
Economics
Economics AOBF
Global History 10
Global History 10 Honors
Global History 9
International Political Relations
Intro to Psychology
Introduction to Psychology
Introduction to Sociology
Participation in Government
Seneca-Iroquois History
US History
US History Honors

NCAA Approved Courses

Mathematics
Algebra
Algebra 2
Algebra FA
Algebra Honors
AP Calculus
College Calculus
Exploring Computer Programming
Geometry
Geometry FA
Honors Algebra 2
Pre Calculus
Science
AP Biology
AP Physics 1
AP Chemistry
Chemistry R
Earth Science R
Earth Science R Honors
Exploring Diseases
Forensics/Environmental Science
Living Environment Biology R
Physics R
LOTE
World Language courses, Levels 1-5 are NCAA Eligible



Click here for
DII Academic
Requirements

DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletics scholarships, and/or compete during their first year.

Core-Course Requirement

Complete 16 core courses in the following areas:

ENGLISH	MATH (Algebra I or higher)	NATURAL/ PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math, or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

Full Qualifier

- Complete 16 core courses.
 - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
 - Seven of the 10 core courses must be in English, math or natural/physical science.
- Earn a core-course GPA of at least 2.300.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

Academic Redshirt

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

Academic Redshirt:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

Nonqualifier:

College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.

International Students: Please visit ncaa.org/international for information and academic requirements specific to international student-athletes.

Test Scores

When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of **9999** so his or her scores are sent directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts will **NOT** be used in his or her academic certification.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscores from each test are used for the academic certification process.

If you took the SAT in March 2016 or after, and plan to attend an NCAA Division I college or university in the 2018-19 or 2019-20 academic years, use the following charts to understand the core-course GPA you need to meet NCAA Division I requirements.

For more information on the SAT, click [here](#) to visit the College Board's website.

DIVISION I FULL QUALIFIER SLIDING SCALE			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.550	400	400	37
3.525	410	410	38
3.500	430	420	39
3.475	440	430	40
3.450	460	440	41
3.425	470	450	41
3.400	490	460	42
3.375	500	470	42
3.350	520	480	43
3.325	530	490	44
3.300	550	500	44
3.275	560	510	45
3.250	580	520	46
3.225	590	530	46
3.200	600	540	47
3.175	620	550	47
3.150	630	560	48
3.125	650	570	49
3.100	660	580	49
3.075	680	590	50
3.050	690	600	50
3.025	710	610	51
3.000	720	620	52
2.975	730	630	52
2.950	740	640	53
2.925	750	650	53
2.900	750	660	54
2.875	760	670	55
2.850	770	680	56
2.825	780	690	56
2.800	790	700	57
2.775	800	710	58

DIVISION I FULL QUALIFIER SLIDING SCALE			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
2.750	810	720	59
2.725	820	730	60
2.700	830	740	61
2.675	840	750	61
2.650	850	760	62
2.625	860	770	63
2.600	860	780	64
2.575	870	790	65
2.550	880	800	66
2.525	890	810	67
2.500	900	820	68
2.475	910	830	69
2.450	920	840	70
2.425	930	850	70
2.400	940	860	71
2.375	950	870	72
2.350	960	880	73
2.325	970	890	74
2.300	980	900	75
2.299	990	910	76
2.275	990	910	76
2.250	1000	920	77
2.225	1010	930	78
2.200	1020	940	79
2.175	1030	950	80
2.150	1040	960	81
2.125	1050	970	82
2.100	1060	980	83
2.075	1070	990	84
2.050	1080	1000	85
2.025	1090	1010	86
2.000	1100	1020	86

ACADEMIC REDSHIRT

*Final concordance research between the new SAT and ACT is ongoing.

NCAA is a trademark of the National Collegiate Athletic Association.



2018 DIVISION II NEW ACADEMIC REQUIREMENTS

College-bound student-athletes first enrolling at an NCAA Division II school on or after Aug. 1, 2018, need to meet new academic rules to practice, compete and receive athletics scholarships during their first year.

Core-Course Requirement

Complete 16 core courses in the following areas:



Full Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.200.
- Earn the ACT/SAT score matching your core-course GPA on the Division II full qualifier sliding scale (see back page).
- Graduate high school.

Partial Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division II partial qualifier sliding scale (see back page).
- Graduate high school.

Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

Partial Qualifier:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

Nonqualifier:

College-bound student-athletes may not practice, compete or receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

International Students: Please visit ncaa.org/international for information and academic requirements specific to international student-athletes.

Test Scores

If you took the SAT in March 2016 or after, and plan to attend an NCAA Division II college or university in the 2018-19 or 2019-20 academic years, use the following charts to understand the core-course GPA you need to meet NCAA Division II requirements.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. You may take the SAT or ACT an unlimited number of times before you enroll full time in college. If you take either test more than once, the best subscores from each test are used for the academic certification process.

For more information on the SAT, click [here](#) to visit the College Board's website.

DIVISION II FULL QUALIFIER SLIDING SCALE			
USE FOR DIVISION II BEGINNING AUGUST 2018			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.300 & above	400	400	37
3.275	410	410	38
3.250	430	420	39
3.225	440	430	40
3.200	460	440	41
3.175	470	450	41
3.150	490	460	42
3.125	500	470	42
3.100	520	480	43
3.075	530	490	44
3.050	550	500	44
3.025	560	510	45
3.000	580	520	46
2.975	590	530	46
2.950	600	540	47
2.925	620	550	47
2.900	630	560	48
2.875	650	570	49
2.850	660	580	49
2.825	680	590	50
2.800	690	600	50
2.775	710	610	51
2.750	720	620	52
2.725	730	630	52
2.700	740	640	53
2.675	750	650	53
2.650	750	660	54
2.625	760	670	55
2.600	770	680	56
2.575	780	690	56
2.550	790	700	57
2.525	800	710	58
2.500	810	720	59
2.475	820	730	60
2.450	830	740	61
2.425	840	750	61
2.400	850	760	62
2.375	860	770	63
2.350	860	780	64
2.325	870	790	65
2.300	880	800	66
2.275	890	810	67
2.250	900	820	68
2.225	910	830	69
2.200	920	840 & above	70 & above

DIVISION II PARTIAL QUALIFIER SLIDING SCALE			
USE FOR DIVISION II BEGINNING AUGUST 2018			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.050 & above	400	400	37
3.025	410	410	38
3.000	430	420	39
2.975	440	430	40
2.950	460	440	41
2.925	470	450	41
2.900	490	460	42
2.875	500	470	42
2.850	520	480	43
2.825	530	490	44
2.800	550	500	44
2.775	560	510	45
2.750	580	520	46
2.725	590	530	46
2.700	600	540	47
2.675	620	550	47
2.650	630	560	48
2.625	650	570	49
2.600	660	580	49
2.575	680	590	50
2.550	690	600	50
2.525	710	610	51
2.500	720	620	52
2.475	730	630	52
2.450	740	640	53
2.425	750	650	53
2.400	750	660	54
2.375	760	670	55
2.350	770	680	56
2.325	780	690	56
2.300	790	700	57
2.275	800	710	58
2.250	810	720	59
2.225	820	730	60
2.200	830	740	61
2.175	840	750	61
2.150	850	760	62
2.125	860	770	63
2.100	860	780	64
2.075	870	790	65
2.050	880	800	66
2.025	890	810	67
2.000	900	820 & above	68 & above

*Final concordance research between the new SAT and ACT is ongoing.

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Academy of Business

		Weeks / Credit	Prerequisite
Ninth Grade	Recruitment		
Tenth Grade	Strategies for Success	20/.5	Business Academy Student
	Personal Finance -Banking & Credit	20/.5	Business Academy Student
	Microsoft Office **MCAS Certification**	20/.5	Business Academy Student
Eleventh Grade	Accounting ***	40/1	Business Academy Student
	BEEP (Business Education Employability Portfolio**)	20/.5	Business Academy Student
	AOBF School Bank	20/.5	Business Academy Student
Summer Internship	Paid (130 hours)	8/.5	Business Academy Student
Twelfth Grade	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 1 Credit

“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) .5 Credit

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) .5 Credit

“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 .5 Credit

AOFB 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, students will be given the chance to consider some of the different careers that require a strong background in ethics.

Economics AOFB .5 Credit

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 .5 Credit

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 .5 Credit

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 1 Credit

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 .5 Credit

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 .5 Credit

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 .5 Credit

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

Electives will be run based on course enrollment

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
Advanced Electronics	40 / 1	10-12	None
Advanced CAD / Manufacturing	40 / 1	10-12	DDP or CAD
Home Maintenance Repair	20 / .5	9-12	None
Introduction to Electronics	20/.5	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 and Graphics	20 / .5	9-12	None
Intro to CNC Manufacturing	20 / .5	9-12	None
Computer Repair	20/.5	9-12	None
Architectural Design / Modeling	40 / 1	11 or 12	DDP & CAD, Algebra & Geometry
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

Drawing and Design for Production DDP 1 Credit

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.***

Computer Aided Drafting CAD 1Credit

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.

Advanced Electronics 1 Credit

The field of electronics is changing rapidly. Students will be introduced to a variety of concepts and activities to prepare them for careers and future study related to electronics. Topics of study include: circuit analysis and repair, introduction to radio theory/audio applications, solar energy applications, programmable devices, computer science, semiconductor devices, use of simulation software, digital logic, and other emerging technologies. Students will also learn to work with test devices such as multimeters, function generators, and oscilloscopes

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

Advanced CAD and Manufacturing 1 Credit

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 .5 Credit

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

Introduction to Electronics .5 Credit

Electronics 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. 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, electrical house wiring and repair, as well as electronic fabrication and repair

Exploring Technology & Manufacturing .5 Credit

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 .5 Credit

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.

Video Production I .5 Credit

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.

Video Production 2 .5 Credit

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.

Technical Applications .5 Credit

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.

Photoshop and Graphics .5 Credit

Many current jobs use Adobe PhotoShop to create and manipulate photos, print and computer graphics design. Fashion, Art, Advertising, Journalism, Movies and so many more businesses use it. In this course you will master the basics in PhotoShop through project work that includes web images, photographic touch up in restoration, print poster, tee-shirt design printing, vinyl design and sticker graphics. You will learn how to use the PS tool palette, layers, filters, masks, channels and gradients. No one knows everything about PhotoShop, but everyone needs to know something about it. It’s a half year course and can be taken for SUNY credits if 5 or more students elect for it.

Intro to CNC Manufacturing .5 Credit

The world of manufacturing is full of exciting new ways of producing products. This course will introduce you to many basic concepts and the coding used to operate CNC (Computer Numeric Control) machinery. These basic skills may help you earn an entry level position or may simply introduce you to a world that you have only seen on TV. A world that is full of machines that cut and engrave with laser, intrinsically carve at the push of a button, or form a useful part from a block of aluminum or plastic. This hands-on class will take you from basics to actually programming and producing your own products, and leave you with practical skills that are part of today's ever increasing manufacturing work force.

Computer Repair .5 Credit

Computer technology is changing rapidly. This course is designed to introduce students to basic personal computer (PC) operation, hardware, and software. Current standards will be discussed for memory, processors, motherboards, and other computer hardware. Students will learn to assemble, diagnose, maintain, and repair a common PC. Students will also learn how to build a PC from scratch

Architectural Design / Modeling 1 Credit

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 1 Credit

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

Electives will be run based on course enrollment

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)
Jewelry Making and Design	20/.5	10—12	Studio in Art (75% avg. or greater)
Native America Art	20/.5	10—12	Studio in Art (75% avg. or greater)
Animation	20/.5	10—12	Studio in Art (75% avg. or greater)
Virtual Reality	20/.5	10—12	Studio in Art (75% avg. or greater)

Studio in Art 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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.

Jewelry Making and Design .5 Credit

Students will explore the fundamentals of jewelry design, focusing on elements of form and function. Students will design and produce jewelry made from a variety of materials, including glass, leather, metal, and clay. Use of the 3-D printer will also be introduced into the production of jewelry.

Only one section of this course will be offered each year

Native American Arts .5 Credit

Students will learn about the cultural significance, the use of imagery, and the materials used in Native American Arts. Students will produce artworks including drawing and painting, sculpture, jewelry, photography, and traditional crafts.

Only one section of this course will be offered each year

Animation .5 Credit

Students will learn various animation techniques from basic claymation to more advanced digital design using Adobe Animate. As students embark upon their journey of becoming animators, they will initially design their own characters in sketch format. Emphasis will then be placed on developing character personality traits, stories, and interactions between their characters to create interesting and unique animations.

Only one section of this course will be offered each year

Virtual Reality .5 Credit

Students will learn the basics of VR technology in the art field using 360-degree video and computer-generated scenes. Students will create and experience their art using such programs as Tiltbrush and other Google VR medium

Only one section of this course will be offered each year

Business

Electives will be run based on course enrollment

Course Name	Weeks / Credit	Grades	Prerequisite
Sophomore Seminar	20/.5	10	None
Accounting	40/1	10-12	None
Computer Applications and Keyboarding	20/.5	9-12	None
Criminal, Civil and Commercial Law	40/1	9-12	None
Personal Finance	20/.5	9-12	None
Applied Digital Skills	20/.5	9-12	None
Digital Citizenship	20/.5	9-12	None
Marketing & Promotional Design	20/.5	9-12	None
Entrepreneurship	20/.5	9-12	None

Sophomore Seminar .5 Credit

This is a comprehensive course for all 10th graders. Developing a career plan is essential in today's world. Students in this course will focus on how to develop a career pathway after high school. They will learn about career and college trends affecting our society and how these are linked to career pathways. They will develop goals and learn how the courses they take in high school will help lead them toward success while exploring and planning and preparing for life after high school. Students will participate in every phase of college preparation and planning—researching and matching with colleges, writing personal statements, getting letters of recommendation and exploring careers and other post-secondary options. Students will strengthen and develop post-secondary life skills with units and activities regarding campus life, college issues, interviewing skills, and financial education.

Accounting 1 Credit

“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.

Computer Applications and Keyboarding .5 Credit

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.

Criminal, Civil, & Commercial Law 1 Credit

The purpose of this course is to give students an overview of legal matters that they will deal with in their personal and/or professional life. The course begins with a quick review of ethics, how laws are created, sources of law, and civil and criminal procedures. Then, students differentiate among the different types of law: criminal, civil, “white collar” crimes, employment/business law, etc. Topics such as the rights of minors, contracts, sports and entertainment law, consumer laws, warranties, rental relationships, cyberlaw, negotiable instruments, credit, debt, bankruptcy, intellectual property, laws of patents, copyrights, and trademarks will also be covered. Landmark cases that influence laws today will also be reviewed and discussed to enhance students’ overall

Personal Finance .5 Credit

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.

Applied Digital Skills (Utilizing Google Suite) .5 Credit

Students will create an interactive, if/then adventure story in Google Slides, conduct research while learning about source credibility, research a topic and create a deliverable product to communicate findings. In addition we will explore spreadsheet organization, digital collaboration, digital tools, organize data, manipulate data and automate a task. Students will also research a topic and create a deliverable product to communicate findings. Students will also apply their business background to research and collect data about a long-term, contractual purchase, like a cell phone and data plan. In addition, we will create an "Auto Editor" tool that finds and highlights overused words in a piece of writing using Google Docs and analyze movie data to formulate a hypothesis based on trends to pick the next box office hit. This will include students needing to visualize data using graphs, analyze data using formulas and identify patterns in data. We will also use G Suite to help students search for job opportunities, explore career sites, write a resume, submit applications, and practice interviewing. We will conclude the semester incorporating Google Sites to create a profes-

Digital Citizenship .5 Credit

Our society is now a digital society. In this course, students will learn about digital citizenship and how they can be safe and secure, as well as smart and effective participants in the digital world. Students will learn about the rights and responsibilities of digital citizens, how they fit into the digital world, and how to promote and develop healthy attributes of a responsible digital citizen. Topics covered include: Privacy & Security, Digital Footprint & Reputation, Self-Image & Identity, Digital Credit and Copyright, Relationships and Communication Skills, Information Literacy, Cyberbullying and Eliminating Digital Drama & Internet Safety

Marketing and Promotional Design .5 Credit

Marketing concepts will be explored using various graphic design tools. Students will learn the distinguishing features of communicating visually through graphic design in creating promotional advertising materials. Next, they gain technical skills in Adobe Photoshop to equip them for graphic design work. From there, students master the basic principles of graphic design, and then delve into the elements of graphic design, such as color, typography, and images. The course includes a culminating project where students create a design portfolio for a client such as a nonprofit organization, a small business, or a school club. They learn about identity design and then create a logo, a business card, and at least one other piece of collateral to include in the port-

Entrepreneurship .5 Credit

Entrepreneurship introduces students to the critical role entrepreneurs play in the national and global economy. Students learn the skills, attitudes, characteristics, and techniques necessary to become successful entrepreneurs. They explore starting a business and learn about the operational issues and financial risks that new businesses face. Students examine ethical issues and develop a framework for managing them. Finally, students identify the risks, returns, and other aspects of entrepreneurship as a potential career. Integral to the curriculum is a culminating project that builds on students’ ability to research the market and develop a business plan.

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	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—AOFB	40/1	12	English 11/Academy students only
SAT Prep—English	20/.5	11–12	Successful completion of English 10
PBJ-Print and Broadcast Journalism	40 / 1	9-12	None

Freshman Seminar .5 Credit

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 co-

English 9 1 Credit

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.

English 9 Honors 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 12 1 Credit

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—AOFB 1 Credit

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.**

SAT Prep—English .5 Credit

English is scheduled on alternate days with SAT Prep--Math. This one semester course prepares students for the SAT, which they will take near the end of the semester. The course is open to juniors and first semester seniors.

PBJ-Print and Broadcast Journalism 1 Credit

News sources are being launched everyday in our technology driven world. With these News sources exploding so are the job opportunities. No longer can a person do just one thing in journalism. You need to know a little about a lot of things. PBJ is a course that is taught jointly by the Technology Dept. and English Dept. You will produce the weekly TV News magazine show, the Green and White Newspaper, learn about blogging, Twitter news, Facebook and the "next big thing" when it comes along. Learn Script Writing, News Gathering, Mass Web Communication, Newspaper Layout and more all in a hands on fashion.

Family & Consumer Science

Electives will be run based on course enrollment

Course Name	Weeks / Credit	Grades	Prerequisite
Introduction to Foods	40/1	9—12	None
Global Gourmet	20/.5	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
Nutrition, Health and Fitness	20/.5	10—12	Introduction to Foods
Advanced Baking	20/.5	10—12	Introduction to Foods

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

Introduction to Foods 1 Credit

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.

Global Gourmet .5 credit

This class focuses on regional and international foods. Students will learn about cooking and baking techniques from around the world. It is recommended that students complete Introduction to Foods before taking this class.

Child & Human Development 1 Credit

Students will study various stages of development from prenatal through adulthood. They will also explore teen issues such as dating, family relationships, parenting and family roles.

Independent Living .5 Credit

This course identifies the challenges young adults face as they assume adult responsibilities. General day to day living skills such as cooking, shopping and laundry will be discussed. They will also learn about credit card responsibilities, and how to establish a personal budget.

Clothing and Textiles 1 Credit

Exploration of the culture, history and fashion cycles of clothing and housing will be discussed. Students will be responsible for creating 1 sewing project to help fulfill the art requirement for the class. **THIS COURSE CAN BE COUNTED AS AN ART CREDIT .**

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

Nutrition, Health and Fitness .5 Credit

Students will explore how food, fitness and healthy living are connected. They will demonstrate meal planning and cooking to maintain a healthy life. Student will also explore exercise and how to stay in peak shape. This class is for the athlete looking to improve their overall performance or anyone interested in living a healthier life.

Advanced Baking .5 Credit

Students will be able to continue building on the basic baking skills that they learned in Introduction to Foods. This class will study cakes, cake decorating, cookies, pies, quick breads and yeast breads. It is recommended that students complete Introduction to Foods before taking this class.

Health / Physical Education

Course Name	Weeks / Credit	Grades	Prerequisite
Health	20 / .5	9—12	None
Team Sports	40 / .25 every 20 weeks	9—12	None
Personal Fitness	40 / .25 every 20 weeks	9—12	None

Health .5 Credit

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.

Team Sports .25 every 20 weeks not in lieu of PE credit

Team Sports: is focused on active game play, following sport rules, and independence in organization of activities. Some sports included in the course are handball, soccer, basketball, football, hockey, volleyball and swimming. Students will develop advanced skills, strategies, and sportsmanship throughout this course.

Personal Fitness .25 every 20 weeks not in lieu of PE credit

Personal Fitness: is focused on individual activities such as yoga, pilates, weight training, adventure, fitness, badminton, swimming, tennis, and power walking. Students will be introduced to lifelong and personal activities to participate in the classroom and community. Nutritional concepts, strategies for stress management, and positive image will also be developed throughout this course.

Mathematics

Course Name	Weeks / Credit	Grades	Prerequisite
Intro to Algebra	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
Intro. To Algebra 2	40 / 1	11	Satisfactory completion of Geometry
Algebra	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 .
Geometry	40 / 1	9 accelerated or 10 or 11	Satisfactory completion of Algebra 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
Algebra Honors	40/1	9	Enrolled in 8th grade math and recommendation by 8th grade Math teacher
Algebra 2 Honors	40 / 1	10-12	Successful completion of Geometry and teacher recommendation
Pre-Calculus	40 / 1	12	Satisfactory completion of Algebra II or Intro to Algebra 2
College Calculus	40 / 1	11 accelerated or 12	Satisfactory completion of Algebra 2 and teacher recommendation
AP Calculus	40 / 1	12	Satisfactory completion of Calculus and Alg. 2/Regents exam
SAT Prep Math	20/5	11 / 12	Recommended Geometry or Intro to Geometry
Applied Technical Math	40 / 1	11 / 12	Successful completion of Algebra

Introduction to Algebra 1 Credit

This course is designed for students who need to build on 8th grade algebra skills before transitioning into the **Algebra** 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** course description. A school final will be given in June. Upon successful completion of this course, students will move to **Algebra** for their

Introduction to Geometry 1 Credit

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 1 Credit

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

Algebra 1 Credit

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

Geometry 1 Credit

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 1 Credit

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

Algebra 2 1 Credit

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

Algebra Honors 1 Credit

This course follows the NYS Common Core Algebra 1 standards and provides enrichment for students that are capable of more advanced problem solving. The topics suggested by NYS to enhance the curriculum for a deeper understanding of Algebra 1 are taught, these topics are not required in the curriculum therefore are not currently taught in Algebra 1.

Algebra 2 Honors 1 Credit

The course would follow NYS Common Core Algebra 2 standards and would provide enrichment for these students that are capable of more advanced problem solving. Topics that are suggested by NYS to enhance the curriculum for a deeper understanding of Algebra would be taught, these topics are not required in the curriculum therefore are not currently taught in Algebra 2. Students would be working toward a common goal of excelling on the NYS Regents Exam in June.

Pre-Calculus 1 Credit

This course, Pre-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 1 credit

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 1 Credit

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.**

SAT Math Prep .5 Credit

Students would take SAT Prep- Math and SAT Prep-English at the same time. They would be assigned SAT Prep-Math on one day and SAT Prep-English during the same period on the opposite day. This would be a half year course and would prep students for the SAT's.

Applied Technical Math 1 Credit

This course will focus on the study of algebraic relationships such as may be directly applied to careers in Electronics, Manufacturing, Construction, Diesel, Automotive and Welding. Topics covered will include, measurement, dimensional analysis, proportions and scaled drawings, area, volume, perimeter, Pythagorean theorem, trig, and many more. After a brief introduction for each topic, each lesson will offer real world examples to introduce new concepts and show how they can be applied.

Music

Electives will be run based on course enrollment

Course Name	Weeks / Credit	Grades	Prerequisite
iMusic	20 / .5	9-12	None
Beginner Piano/Guitar	40 / .5	9-12	None
Advanced Piano/Guitar	40 / .5	9-12	Guitar and Piano 1 and or teacher recommendation
Music Theory	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)
Mixed Chorus	40 / 1	9–12	None
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.

iMusic .5 Credit

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.**

Beginner Piano/Guitar .5 Credit

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.**

Advanced Piano/Guitar .5 Credit

The purpose of this course is to provide advanced group instruction on guitar and at the piano keyboard. The prerequisite of this course is Guitar/Piano I or permission from the instructor. The emphasis of this course is on advanced music reading and playing chord charts, advanced tablature, and piano melody with chord accompaniment. The content of this course includes but is not limited to: hand position and technique, advanced 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.**

Music Theory 1 Credit

Music Theory I explores the basic theoretical elements of the rudiments and terminology of music, including identifying, hearing, and notating pitches, intervals, scales and keys, chords, meter, rhythm, and basic chord progressions. This course will provide the basic fundamentals needed for song writing and composition and will also provide the foundation for success in Advanced Placement Music Theory. **This course satisfies the N.Y.S. mandated arts credit for music leading to an Advanced Regents**

AP Music Theory 1 Credit

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**

Mixed Chorus 1 Credit

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.**

Concert Band 1 Credit

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 1 Credit

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 de-**

Symphony Orchestra 1 Credit

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
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 R.	40 / 1	9	Satisfactory completion of 8th grade science. Teacher recommendation.
Earth Science R Honors	40 / 1	9	Satisfactory completion of 8th grade science. Teacher recommendation.
Living Environment Biology R.	40 / 1	10	Satisfactory completion of Earth Science or I
Chemistry R.	40 / 1	11	Current enrollment in Geometry.
Chemistry NR	40 / 1	10-12	Completion of Living Environment
Physics Regents / Physical Setting	40 / 1	10 & 11 Accelerated, 12	Algebra and Geometry, 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

Exploring Diseases 1 Credit

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 1 Credit

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 R. 1 Credit

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.**

Earth Science R. Honors 1 Credit

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.**

Living Environment Biology R. 1 Credit

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 R. 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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.

Chemistry (NR) 1 Credit

Chemistry designed to introduce students to chemical behavior in everyday life. Students will gain a better understanding of common substances, their behavior, and how they relate to the environment. Course study includes measurement, matter and its properties, basic atomic structure, chemical reactions in industry, environment, and everyday processes.

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
Global History 10 Honors	40 / 1	10	Global History and Geography I
U.S. History and Government	40 / 1	11	Global History and Geography I and II
AP US History	40/1	11-12	Teacher/Counselor Recommendation
U.S. History Honors	40/1	11	Recommendation by Social Studies faculty
Participation in Government	20 / .5	12	None
Economics	20 / .5	12	None
Economics AOBF	20/.5	12	None
Introduction to Sociology	20 / .5	11-12	None
International Political Relations	20 / .5	11-12	Recommended 85% or above on Social Studies
Seneca Iroquois History	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
Home Planet	20/.5	9-12	11 and 12th grade only
Introduction to Psychology	20/.5	9-12	11 and 12th grade only

***Elective Credit

Global History 9 1 Credit

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 1 Credit

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.**

Global History 10 Honors 1 Credit

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.

U.S. History 1 Credit

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.**

U.S. History Honors 1 Credit

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 .5 Credit

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 .5 Credit

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.**

Economics AOBF .5 Credit

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.**

Introduction to Sociology .5 Credit

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**

International Political Relations .5 Credits

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

Seneca Iroquois History 1 Credit

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 1 Credit

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 (no credit)

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

Home Planet—Our Geography, People and Culture .5 Credit

“Home Planet: Our Geography, People and Culture” is the study of the world’s people, places, and cultures. Particular emphasis is placed on students’ understanding and applying geographic concepts and skills to their daily lives. This course explores how physical features of the earth, population settlement patterns, human activities, customs, and traditions contribute to defining a place, a culture and a people.

Introduction to Psychology .5 Credit

Introduction to Psychology introduces students to the scientific study of human behavior and mental processes. This course focuses on individual behavior and why an individual thinks, feels and reacts to certain stimuli. Major emphases will be placed on the importance of psychology, psychological research methods, biology and behavior, sensation and perception, states of consciousness, stress and health, psychological disorders and methods of therapy. The course will be taught using a variety of methods of instruction including psychological experiments, research projects and presentations. A final exam is required to complete the course.

Leadership in Action 1 Credit

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.

AP U.S. History – 1 credit

The course is designed to provide students with a college level experience and the analytical skills and knowledge necessary to prepare them for the AP College Board United States History test in May of each year. The course will examine the growth of the American Republic from its pre-European peoples to present day. The course topics will include colonial America, Revolutionary America, Jeffersonian and Hamiltonian ideology, Jacksonian Democracy, Manifest Destiny, Imperialism, Progressivism, the New Deal, World Wars I & II, the Cold War Era, and Modern America. The full year course will be divided into time periods and focus on major themes in US History including the social, political, economic, and cultural history.

World Languages

Electives will be run based on course enrollment

Course Name	Weeks / Credit	Grades	Prerequisite
French 1	40 / 1	9—12	none
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 1	40 / 1	9—12	none
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	9-12	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	9-12	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 1 Credit

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 1 1 Credit

This full-year introductory course, offered in the school year 2018-2019, would introduce students to the basics of language and culture of Francophone countries and territories. Students will focus on basic vocabulary and strive to reach a proficiency level of novice-mid; being able to communicate in the target language to answer questions and give information. The course will focus on the amelioration of the four modalities of language learning (listening, speaking, reading and writing). Skills and proficiency will be assessed by authentic assessment, participation, self-assessment, as well as differentiated assessments to assess vocabulary, gram-

German 1 1 Credit

A full-year course, offered in the school year 2017-2018, German one would be the introductory course in German language and prerequisite for German level two. Students will study basic German and work on the five proficiencies of foreign language study (Reading, Writing, Speaking, Listening and Culture). Skills and proficiency will be assessed by teacher-generated assessments including vocabulary and grammar quizzes, written assignments of a suitable length, as well as conversations, projects and in class

French 2, German 2, Spanish 2, Seneca 2 1 Credit

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 1 Credit

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 1 Credit

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 1 Credit

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:

LAKE SHORE HIGH & CARRIER CENTER	AM Level 1 (12 th Grade) PM Level 2 (11 th Grade)
LOGUIDICE CENTER	AM Level 1 (11 th Grade) PM Level 2 (12 th 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

SPECIAL 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:

W.H. Carrier Center

Career Development and Occupational Studies

The Career Development & Occupational Studies (CDOS) program is a one-, two-, or three-year program that empowers students to acquire the skills and insights necessary to succeed in a two-year Career & Technical Education (CTE) program or to enter the workforce with fundamental job skills.

CDOS is designed for students who want to participate in a general exploratory experience. Students receive instruction on safety awareness and how to follow safety rules, appropriate social skills and work habits, related vocabulary and measurement skills, and hands-on instruction with both hand tools and power tools. This skill development will empower the students for success in a two-year CTE program.

Information Technology/Computer Systems (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/CSI Forensics

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/Air Conditioning/Refrigeration

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

Automotive Body Repair develops entry-level skills in a shop setting similar to commercial collision repair shops. Students will hone their skills in metal straightening, aligning, replacing, MIG welding, body filling, painting, buffing, and detailing. Students are able to practice their skills in the spray booth, as well as with equipment and tools used in the collision repair industry. This program also focuses on material usage record-keeping, damage estimation, and job costs as they write their own collision estimates as well as order and manage supplies. Students enrolled in this program may work on their own vehicles after developing their skills

Automotive Technology

Automotive Technology provides students with real-world work experience in automotive service and repair shops. Students work with power tools, electronic diagnostic equipment, computerized front-end machinery, and emissions test equipment. Automotive Technology students will study fuel injection systems, computer control systems, and all aspects of vehicle repair. Other jobs performed in the shop involve tire servicing, suspension servicing, repairing/maintaining electrical, brake, exhaust, air conditioning systems, and all aspects of engine performance.

Construction Technology

Construction Technology gives students a background in carpentry, electrical work, plumbing, masonry, and blueprint reading and helps prepare them for a variety of construction related occupations. Students are also able to put their skills to the test through internship opportunities and community building projects. Students will be prepared to earn a variety of valuable certifications and licenses, such as the Powder-Actuated Tools Operator license from Hilti Tools, the Home Energy Analyst & Technician certification from NYSERDA, and the Insulated Concrete Form Installation certification through LOGIX ICF.

Health Careers

The two-year Health Careers Program provides students with entry-level skills, valuable industry certifications, and the opportunity to have first-hand experience working in a variety of health care-related fields. Students will study basic anatomy and physiology, diseases and disorders, medical terminology, medical ethics, nutrition, geriatrics, child development, infection control, maternal/child health, first aid, and pharmacology. Students will practice performing basic nursing procedures, and function as part of a health care team. Clinical experiences allow students to explore different areas of the health care field. Experienc-

Welding / Metal Fabrication

The two-year Welding/Metal Fabrication Program enables students to develop specialized and sought-after skills for employment in the welding and metal fabrication industry. Students learn the most up-to-date welding and metal fabrication techniques and procedures in a variety of areas, such as electric arc welding, metal inert gas (MIG) welding, tungsten inert gas (TIG) welding,

Conservation

Conservation prepares students for a wide variety of careers involving the development and protection of natural resources. Instruction takes place both inside the classroom, in greenhouses and outdoor labs that include areas for heavy equipment operation and practice.

Sports Conditioning & Exercise Science

The one or two year program, Sports Conditioning and Exercise Science, provides foundational skills and knowledge for students choosing to pursue professional certifications in personal training and further education in athletic training, physical therapy, chiropractic, massage therapy and dietetics. Students learn the science of human health and explore a systematic approach to designing exercise and conditioning programs in an interactive setting. Students study the parameters of fitness including resistance training, fat loss, nutrition and agility. Additional areas of study include :medical terminology, human anatomy and physiology, applied kinesiology, motivational and teaching techniques and cardiorespiratory training. Students have the preparation and opportunity to received Red Cross Certification in First Aid and CPR/AED and are prepared for the ACE integrated Fitness Training Certification. A one-year “Intro to Human Performance” program is available to seniors. Students have the opportunity to participate in internships with area gyms, fitness clubs, health clubs, schools, physical therapy providers and athletic programs . This program prepares students for post secondary education and maintains articulation agreements with the following higher education partners: ECC and Trocaire.