

# 2024-2025 COURSE DESCRIPTION GUIDE



## LANCASTER HIGH SCHOOL

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Lancaster, NY 14086  
(716) 686-3255

[www.lancasterschools.org/lhs](http://www.lancasterschools.org/lhs)



## Message from the Principal

One of the most important decisions you will make as a student will be the selection of the courses you will take in high school. The variety of course offerings and their degree of difficulty, electives, required courses, as well as completion of a chosen sequence will all have a definite impact on your educational goals. As we prepare students for life after Lancaster, we expect that you challenge yourself and take full advantage of your potential to succeed. Regardless of your planned academic outcome, you are making choices that may forever shape your opportunities in the future.

The extensive course offerings contained in this Guide provide an opportunity for you to explore, aspire, and challenge your interests and talents. Examine these carefully before deciding what is best for you. Please know that once your schedule is finalized it is difficult to have it changed. Your final schedule will be your year-long commitment to the courses you selected.

Our administrators, counselors, and teachers stand ready to assist you in any way to make your time at Lancaster High School a rewarding and treasured educational experience. Please feel free to contact us for assistance. Good luck with your planning.

Mr. Michael Candella  
Principal

### Student course selections must be finalized by June 1.

***It is expected that students sustain 6 academic periods and physical education within their schedules for each semester.***

- ▶ Course offerings are subject to changes or cancellations based on student enrollment.
- ▶ Students are encouraged to select alternates for all courses chosen during the schedule request process.
- ▶ All policies contained in this Guide can be waived or altered with administrative approval.

## Course Selection Process

### Current Juniors

- Jan: Counselor classroom presentations in English
- Jan-Feb: Make individual appointments w/ counselor to discuss future plans and select classes.
- Print Junior Course Selection Worksheet

### Current Sophomores

- Feb: Counselor classroom presentations in Global
- Feb-Mar: Make individual appointments w/ counselor to discuss future plans and select classes.
- Print Sophomores Course Selection Worksheet

### Current Freshmen

- Mar: Counselor classroom presentations in English
- Mar-Apr: Make individual appointments w/ counselor to discuss future plans and select classes.
- Print Freshmen Course Selection Worksheet

### Current 8<sup>TH</sup> Graders

- Jan 11<sup>th</sup> – 8<sup>th</sup> Grade Information Night at LHS 6:30pm
- LANCASTER MIDDLE SCHOOL
  - Feb-Mar: Meet w/ counselor to select classes
- ALL OTHER SCHOOLS
  - Enroll w/LCSD Registrar 686-3218,
  - Schedule meeting w/ LHS Counseling 686-3258,
  - Print incoming Freshmen Course Worksheet



# GRADUATION REQUIREMENTS

SUBJECT AREA	REQUIRED CREDITS & SPECIFIC COURSES	NEW YORK STATE EXAM REQUIREMENTS	
		NYS REGENTS DIPLOMA	NYS REGENTS DIPLOMA W/ ADVANCED DESIGNATION
<b>ENGLISH</b>	<b>4 CREDITS</b> English 9, 10, 11, 12	Common Core ELA	Common Core ELA
<b>SOCIAL STUDIES</b>	<b>4 CREDITS</b> 1. Global History I 2. Global History II 3. US History 4. Part Govt/Economics	<b>Regents Exams in both</b> • Global History • US History	<b>Regents Exams in both</b> • Global History • US History
<b>MATH</b>	<b>3 CREDITS</b>	<b>One</b> of these Common Core exams • Algebra • Geometry • Algebra II	<b>Each</b> Common Core Exam 1. Algebra 2. Geometry 3. Algebra II
<b>SCIENCE</b>	<b>3 CREDITS</b> • Living Environment • Two additional Science Courses	<b>One</b> of these Regents exams • Living Environment • Earth Science • Chemistry • Physics	Regents exams in • Living Environment • One additional Regents Science w/lab
<b>LANGUAGE OTHER THAN ENGLISH (LOTE)</b>	<b>1 CREDIT</b> Regents Diploma <b>3 CREDITS</b> Regents Adv Designation	Level 1 Proficiency	Level 1 Proficiency AND Level 3 Comprehensive
<b>ART OR MUSIC</b>	<b>1 CREDIT</b>		
<b>HEALTH</b>	<b>½ CREDIT</b>		
<b>PHYSICAL EDUCATION</b>	<b>2 CREDITS</b>		
<b>Minimum passing course average is 65</b>	<b>22 Credits required to graduate</b>	<b>Regents &amp; Common Core Exams Minimum passing score is 65</b>	

Honors Designation on Regents or Advanced Regents Diploma

The honors designation requires a 90.0% average on all Regents exams required for the diploma.

Mastery in Math or Science

Students earning an Advanced Regents diploma who pass three Regents exams in Math or three in Science with scores of 85 or better will earn an annotation of Mastery in Math or Science.

Alternative Sequence Option

Students pursuing an Advanced Regents diploma may choose to complete 1 credit of a language other than English (LOTE) and a 5-credit sequence in a career or technical area as an alternative to the LOTE requirement.

These areas include Art, Business, Career & Tech Ed (Harkness), Music or Technology



## *General Definitions and Policies*

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### Academic Eligibility

In order to participate unconditionally in any extra-curricular activity at Lancaster High School, a student must maintain an overall minimum average of 72.00. There is no probationary status. The fourth marking period averages of the previous school year determine eligibility for the first marking period of the next school year. Summer school grades and final averages are not used in determining eligibility.

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### Course Credit

A student must achieve a score of **45 or higher** on the final assessment and have a **65 overall average** in the course to earn course credit. If a student achieves a score of 44 or lower, on the final assessment, the student will NOT earn credit for the course.

### *Regents Credit*

A student must achieve a score of 65 or higher on a Regents exam to earn Regents credit.

### *Half-Credit*

A half unit of credit is earned by taking a one-semester subject and earning the same average requirements as a full year course.

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### Course Drops

Once the school year begins, all course drops must be approved by an administrator.

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### Course Level Changes

Students have time during summer recess (last week of June through the second week of August) to make limited types of changes to their course selections and schedules. The only schedule changes that will be allowed during that time are: changes due to errors, adding electives, summer school changes, and elective changes considered based on availability. After this time period, an administrator must approve any and all changes. The final schedule will be the student's commitment to that specific program of courses.

Student course selections are finalized on June 1 of the previous school year.

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### Course Repeat due to Failure or Audit

A student who audits a course during the school year must continue to attend the course, without violating the LHS Code of Conduct, in order to be eligible to repeat the course. In science courses with labs, all lab requirements must also be met. When necessary, individual student circumstances will be reviewed and approved through MTSS.



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### Early Dismissal and Late Arrival for Seniors

Seniors may request the privilege of either an Early Dismissal for 9th period OR a late arrival for after 1st period. A parental permission form will be required and kept on file. Early Dismissals and Late Arrivals are scheduled only if the student's course load and time schedule allows, and is completely dependent on graduation requirements and course offerings. Classes in a student's schedule will not be rearranged to accommodate early dismissal or late arrival.

Early Dismissal / Late Arrival is a privilege and is subject to being revoked at any time for failure to maintain academic eligibility (Average of 72+), unexcused absence or tardiness and/or code of conduct violations.

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### Early Graduation

Students who meet the criteria for approval for early graduation should meet with their school counselor before considering this option.

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### Report Cards

Periodic updates to a teacher's gradebook are published to the Parent Portal by all teachers in a timely manner. Report cards are published to the Parent Portal at the end of the 10th, 20th, 30th and 40th weeks.

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### Sequence

Students who are pursuing an Advanced Regents Diploma and do not wish to take the Comprehensive Exam in a Language other than English are required to fulfill a five-unit sequence requirement by taking a prescribed set of courses in a field of study. Consult your counselor for sequence options.



## Course Type Definitions and Policies

### Advanced Placement

The [College Board's Advanced Placement \(AP\) Program](#) is an opportunity for students to pursue college-level studies while still in high school and to receive advance standings, additional credit, or both in college. By challenging and stimulating students, the AP Program provides access to high quality education, accelerates learning, rewards achievement, and enhances both high school and college programs. Students are encouraged to take Advanced Placement courses for the purpose of enhancing their educational background in preparation for post high school career opportunities, to challenge themselves academically and to gain possible advanced credit by a college/ university.



### Criteria for Honors and Advanced Placement

- Student course selections are finalized for AP and Honors courses on June 1<sup>st</sup> of the previous school year. Afterwards, the course level change policy is in effect and changes from AP or Honors into Regents level can only be requested after the first marking period is complete. Administrative approval is required for all level changes.
- A teacher recommendation is required for any student intending to register for an AP or Honors course who is not currently taking the precursory course (i.e. Regents Geometry to Honors Algebra II). Teacher Recommendations are completed on the Course Selection Worksheet.

### Advanced Placement Course Offerings 2022-2023

These courses are weighted in the final average by a factor of 1.07.

#### Arts

- Music Theory
- Studio Art: Drawing Portfolio
- 2D Design: Photography

#### English

- English Language and Composition
- English Literature and Composition

#### History and Social Science

- Macroeconomics
- Psychology
- United States Government and Politics
- United States History
- World History

#### Math and Computer Science

- Calculus AB
- Computer Science A
- Computer Science Principles
- Statistics

#### Sciences

- Biology
- Chemistry
- Environmental Science
- Physics C: Mechanics

#### World Languages and Cultures

- Spanish Language and Culture
- French Language and Culture



## Dual Enrollment - College Credit Courses

Students are encouraged to take advantage of the many opportunities to engage in college-level course work while in Lancaster High School. Students can choose from a wide variety of courses that provide a pathway to earn college credit

The courses below are conducted in partnership with Lancaster Central School District and the accrediting institution listed. As a full year course, students who successfully complete the course can earn one unit of high school credit. Students who successfully complete the class and pay the tuition can, additionally, earn college credits for each course. Students who wish to participate in this program should obtain the required paperwork from their classroom teacher at the start of the class. The student is responsible for registering prior to the deadlines as stated by the accrediting institution. Fees for dual-credit will be billed directly by the college.

**NOTE - Individual colleges have their own policies regarding the transfer of credit from other colleges. Students should communicate directly with the admissions office of the college to determine eligibility.**

### College Course Offerings 2024-2025

#### SUNY: ERIE (ECC)

##### Math

- College Math

##### Physical Education

- Physical Education 11/12
- Lifeguard Certification

##### Science

- AP Chemistry

#### SUNY: Buffalo State

##### Business

- Advanced Accounting
- Business & Personal Law
- Start it Up! Entrepreneurship
- Principles of Marketing
- Marketing Sports and Entertainment
- AOF: Microsoft Office
- AOF: Success Strategies
- AOF: Financial Planning

##### English

- Print Journalism
- Broadcast Journalism & Media Studies

##### Family Consumer Science

- Event Planning and Management
- Advanced Food and Beverage
- AOHT Principles of Marketing
- AOHT Marketing Sports Entertainment
- AOHT Intro to Hospitality
- AOHT Hotel Hospitality Info Systems

##### Math

- AP Calculus
- Pre-Calculus R
- AP Statistics

##### Music

- AP Music Theory

#### Rochester Institute of Technology (RIT)

##### Technology

- Design and Drawing for Production
- Principles of Engineering
- Computer Integrated Manufacturing
- Digital Electronics

#### Hilbert College

##### World Languages

- AP French
- AP Spanish

#### Bryant & Stratton College

##### English

- English 12



## Honors

These courses follow the New York State Regents/Common Core curriculum with enrichment. These courses are for students who have high motivational skills and seek an academic challenge. Students take the Regents or Common Core exam for these courses when offered.



These courses are weighted in the final average of 1.04.

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## Regents or Common Core

These courses follow the New York State curriculum. Students take the Regents or Common Core exam for these courses when offered.



New York State  
EDUCATION DEPARTMENT  
BOARD OF REGENTS

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## Career and Technical Education (CTE)

This NYSED approved program delivers a combination of courses and experiences in career and technical areas in preparation for further education and/or employment. Students receive an additional seal on their Regents (or Advanced) diploma.







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## ART Course Descriptions

Courses in the Arts expose students to complex learning skills that they cannot receive in any other area of study. They present students with the opportunity to critically think, examine and process information. These valuable skills develop and foster students' problem-solving abilities in a capacity that employers seek out. Lancaster High School offers art courses that will prepare students for career choices in the arts after high school such as architect, graphic designer, advertising designer, medical illustrator, fashion illustrator, web designer, art conservator, jeweler, ceramic artist, professional photographer, and many others. We are fortunate to be able to offer a wide range of art courses here at Lancaster. Use this wonderful opportunity, when selecting your course schedule, to take advantage of our exceptional program.

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### Studio in Art

**6130** *Grades 9, 10, 11, 12* **1 credit**

This foundation course covers the fundamentals of the visual arts and is a recommended preparation for most art electives. These fundamentals provide students with the knowledge and skills necessary to further explore the linkage between art production, art history and aesthetics and art criticism. Students participating in this course will explore eight main units: The Language of Art, How Artists See the World, Creativity and Imagination, living with Art/Art as Design, Art as Self Expression, Art Tells a Story, Art and Religion/Meditation, and Art and Social Change. The course is aligned with the New York State Standards for the Visual Arts. Students have an opportunity to explore a variety of media as they learn to develop skills, techniques and understanding, which are essential in the visual arts. Hands on studio experiences parallel course content and provide practical application of key concepts. Forming the core of the Art program, Studio in Art is required for a sequence. Can be taken by 11<sup>th</sup> & 12<sup>th</sup> graders who need an Art credit to graduate.

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### Drawing and Painting

**6112** *Grades 10, 11, 12* **1 credit**

⊗ Prerequisite: Studio in Art

This in-depth course continues where Studio in Art left off, concentrating primarily on drawing and painting. Exploration of media and techniques is emphasized. Students are encouraged to find personal answers to art problems using skills and techniques acquired in the course. The course is designed to foster deeper understanding of art practices. Art criticism and art assessment help the student to appreciate their own and others' achievements.



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## Illustrating and Cartooning

**6109** *Grades 10, 11, 12*

*1 credit*

⊗ Prerequisite: Studio in Art

This course is for students that love comics, cartoons and the illustrations found in magazines and children's books. It is designed for students who want to discover what makes particular cartooning and illustration styles unique and popular, and how to develop works of art with the same excitement and fun. Students must be willing to push beyond their own existing styles and try things that they have never done before. Students will focus primarily on character design and storytelling, and create a variety of artworks demonstrating these skills.

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## Studio in Graphic Design

**6111** *Grades 10, 11, 12*

*1 credit*

⊗ Prerequisite: Studio in Art

Students will explore the areas of art and graphic design as a vehicle for visually communicating their ideas to others, with emphasis on creativity. Students will use a variety of conventional art materials as well as the computer to develop creative solutions, and will gain hands-on experience on Adobe Photoshop and Adobe Illustrator to explore their applications as an art medium. Areas explored will include: illustration, logo design, layout, lettering and ad design. Later in the year, projects will build in complexity and encompass package design, ad campaigns, and career and college opportunities.

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## Ceramics I

**6113** *Grades 10, 11, 12*

*½ credit*

⊗ Prerequisite: Studio in Art

Are you the kind of person who loves to work with their hands? Are you someone who enjoys craft projects? Then Ceramics I is for you! You can make anything from clay and once you experience using it, you will want more time creating and getting your hands dirty...that may explain why people have been choosing careers in clay for centuries. Clay is one of the oldest and most interesting craft materials and there are millions of ways we use clay in our everyday lives. In this class, you will be using the potter's wheel, creating functional as well as sculptural art out of clay and experimenting with all types of hand-building. The finishing touch to your projects will be to explore a variety of glazing techniques. Come join the class and find out what brings students back to the ceramics room, even after the class is over. Ceramics 1 is a half year course, if you are interested in completing a full year of Ceramics you must sign up for Ceramics 2 as well (see below).

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## Ceramics II

**6223** *Grades 10, 11, 12*

*½ credit*

⊗ Prerequisite: Ceramics I

The clay is calling you back, of course.... so don't ignore it! In Ceramics II you will become an experienced potter and further develop your skills using clay. Projects will once again be a mix of functional and sculptural with a chance to really concentrate on your favorite building techniques. Students will work on the pottery wheel to gain better mastery and have an even greater contribution in project decision making.



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## Photography I

**6118** *Grades 10, 11, 12*

*1 credit*

⊗ Prerequisite: Studio in Art

During this course, students will learn an overview history of photography, the anatomy of a DSLR camera and applications of photography as an art form. Students will explore the work of contemporary and historical photographers. They will work with digital applications such as Photoshop, and will create rich, media-based art projects. If able, students will learn introductory film camera and dark room photography procedures. Classwork will also include photographic and educational field trips, darkroom processing, photo enhancement and alteration techniques. Students may rent cameras from the school with a lab fee.

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## AP 2D Design (Photography II)

**6124** *Grades 11, 12*

*1 credit*

⊗ Prerequisite: Photography I

This course is a direct follow-up to Photography I. This course is for students who wish to pursue their own independent photographic project in a series of visually related artworks (concentrations). Field trips and professional speakers will add awareness to career opportunities and professions in the diverse field of photography. Student work will be entered into local photo exhibits and art shows. Students will finish their high school photography career with a professional digital and traditional portfolio. Students are strongly encouraged (but not required) to submit this portfolio to the AP College Board for possible College credit in May. Portfolio submission is considered the same as taking any AP exam and therefore the cost of submitting your work is approximately \$100. Please note, even though some colleges still require students to take the college's foundation art courses, most colleges will allow students to use an AP 2D Design credit as a humanities elective.



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## Jewelry I

**6122** *Grades 10, 11, 12*

*½ credit*

⊗ Prerequisite: Studio in Art

Clay, beads, pendants, findings, hemp, earrings, wire, rings... Find out how to create fabulous pieces of exquisite artful jewelry that will make all of your friends jealous. In this class you will learn a variety of basic jewelry construction techniques and use many different materials. The end result will be skills you can use anywhere and the confidence to go with them. As Jewelry 1 is a half year course, if you are interested in completing a full year of Jewelry you must sign up for Jewelry 2 as well (see below).

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## Jewelry II

**6123** *Grades 10, 11, 12*

*½ credit*

⊗ Prerequisite: Jewelry I

Metalsmithing, cutting metal, soldering, polymer clay, necklaces, bracelets, enameling, earrings... Learn how your favorite jewelry stores create one of a-kind-creations. In this class you will be cutting your own metal to use for enameled pendants, creating a ring using the lost wax casting process and many other advanced jewelry techniques. Lab fee with this class based on student choice of materials.





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## Portfolio Development

**6119** *Grades 11, 12* *1 credit*

- ⊗ Prerequisite: Studio in Art
- ⊗ Prerequisite: Drawing and Painting

This course ties together the student's previous art education experiences. It is designed for the highly motivated student, who is serious about the study of art. It allows students to further explore areas of interest and to critically look at their own work and works of others. Students develop a journal/sketchbook that becomes a personal resource for new work. Preparation and presentation is ongoing as students assess works to be included in a final portfolio.

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## Independent Study

**6230 / 6236** *Grades 11, 12* *½ or 1 credit*

- ⊗ Prerequisite: Portfolio Development (or presently enrolled)
- ⊗ Required: Contract with permission of Teacher, Principal and Counselor

The Independent Study provides an opportunity for advanced students to work one on one with a specific teacher to develop work in a particular area. This venue is chosen when a student shows strengths and interests that go beyond the prescribed curriculum, and are personally motivated to work independently.



## *Business & Career Education Benefits and Highlights*

The Lancaster High School Business and Career Education Department is a regional and national model based on its substantial work-based learning opportunities alongside a rigorous and relevant curriculum which includes significant support of local, regional and national partners. Each of the teachers within the Business and Career Education department have relevant professional industry background as well as extensive teaching experience. Students are offered a wide variety of course options with each focusing on both the technical and soft skills required for success in any career field.

### Dual Enrollment

Numerous business courses offer Dual Enrollment through Buffalo State University.



### Career and Technical Education Endorsement (CTE)

The Lancaster Business Department is an accredited CTE program with pathways for students seeking Regents and/or Advanced Regents diplomas. Students learn “hands-on” career skills while earning a Regent's Diploma in order to prepare for college or other higher education studies. Students apply academic concepts to real-world situations with:



- Internships
- Mentorships
- Job shadowing
- Industry-based certifications
- Opportunity to earn college credit
- Other work-based learning opportunities

### NAF: Academy of Finance

The [Academy of Finance at Lancaster High School](#) is part of [NAF](#), a national network of education, business, and community leaders who work together to ensure that high school students are college, career, and future ready. NAF’s educational design includes industry-specific curricula, work-based learning experiences, and relationships with business professionals, culminating in a paid internship. Lancaster’s AOF has been awarded NAF’s distinguished status each year since 2011 and one 4 academies to have reached this highest level of recognition as often.



### Internship Program

The Internship Program at Lancaster High School is a nationally recognized leader in work-based-learning. The program shapes the direction of our youth by ensuring students are both college and career ready. Internships usually fall within these career themes: Business and Finance, Engineering, Health Care, Hospitality & Tourism, Leadership, General Education, Visual and Performing Arts.



### Microsoft Office Certification

All Computer Applications courses use the Microsoft Office Suite. (Word, Excel, PowerPoint, Access) Students are eligible to become a Microsoft Office Application Specialist; a credential recognized by educators and professionals around the world.





## DECA

CO-CURRICULAR CLUB

Advisor: Cindy Gould



DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe. As a co-curricular organization, students taking marketing or a business course have the opportunity to join. Students compete at regional, state and national levels in over 30 business areas to win scholarships and cash awards. For more details visit the [DECA website](#)

## Community Service Organizations

Business students are encouraged to provide community service through our partnerships with the Lions, Rotary & Zonta clubs.



*Leo Club (Lions)*

Advisor: Peter Herrscher



*Z-Club (Zonta)*

Advisor: Lynn Fisher



*Z-Club (Zonta)*

Advisor: Lynn Fisher

## Making the most of Business Course Offerings

### Suggested Pairings

Each business course is one semester long (earning ½ credit); you can pair courses to create a year-long curriculum (earning 1 full credit). We recommend the following course pairings, based on the skill and knowledge level they require and the opportunity to build on knowledge from one course to the next. Courses may be taken in any order as there are no pre-requisites. This allows a student the flexibility to fit offerings into their schedules or to sample a variety of business disciplines. Paired courses include the ⊕ symbol.

One Semester Course	⊕	One Semester Course
CFM – Career & Success Skills	⊕	CFM – Financial Literacy
Principles of Marketing	⊕	Sports and Entertainment Marketing
Principles of Accounting	⊕	Advanced Accounting
Start it Up! (Entrepreneurship)	⊕	Make it your Business (Business Planning)
Keyboarding & Microsoft Word	⊕	Microsoft Excel & PowerPoint



## Earning the CTE endorsement

Students may pursue a 3.5 credit Regents or the 5.0 credit Advanced Regents Diploma CTE. Successful students will receive an additional seal on their New York State Regents (or Advanced) Diploma and represents readiness for both college and/or career.



### **CTE Endorsement (3.5 credits)**

**Complete each of these courses to earn the 3.5 credit endorsement**

- Foundations for Success (.5)
- CFM – Career & Success Skills (.5)
- CFM – Financial Literacy (.5)
- Principles of Marketing (.5)
- Sports & Entertainment Marketing (.5)
- Start it Up (Entrepreneurship) (.5)
- Make it your Business (Business Planning) (.5)

### **CTE Endorsement for Advanced Regents (5 credits)**

**Complete the 3.5 credit CTE plus**

- Career Exploration Internship Program (.5)
- Keyboarding & Microsoft Word (.5)
- Microsoft Excel & PowerPoint (.5)



## Business Course Descriptions

### Principles of Accounting

(Fall) 9030 Grades 10, 11, 12

½ credit

⊕ Suggested Pairing – Advanced Accounting

May serve as a third Math credit required for graduation when paired with Advanced Accounting.

This course is highly recommended for students considering a college major in business and is designed to provide a basic knowledge of accounting procedures, including analyzing and journalizing business transactions; constructing worksheets; calculating and recording adjusting entries; preparing financial statements; and finalizing the accounting cycle through closing entries. Emphasis is placed on service businesses organized as a sole proprietorship. All students can benefit from accounting instruction in their own personal business affairs. This course serves as a pre-requisite for DUAL ENROLLMENT

### Advanced Accounting

(Spring) 9031 Grades 10, 11, 12

½ credit

⊕ Suggested Pairing – Principles of Accounting

May serve as a third Math credit required for graduation when paired with Principles of Accounting.

### ↔ DUAL ENROLLMENT OPTION AVAILABLE

#### BUS212 Introduction to Accounting (3 credits)

Dual Enrollment requires student to have also taken Principles of Accounting



This course is based on the fundamentals of Accounting with emphasis on merchandising businesses organized as corporation. This course will give students a strong foundation in advanced accounting theory and procedures including an in-depth approach to preparing income statements and balance sheets along with recording of complex business transactions related to publicly held corporations. Students use computer software applications that can be used to expedite the accounting process. This course is highly recommended for students who are considering any business or accounting major in college.

### Business Mathematics

9034 Grades 10, 11, 12

1 credit

May serve as a third Math credit required for graduation.

How much is this new car going to cost? How can I save enough to pay for a vacation? I know I have to pay taxes, but how much? These are all examples of how math is used in everyday life or in a typical career. Business Math provides students with a thorough review of all basic mathematical concepts and the applications necessary to effectively manage banking services, credit, loans, insurance, home and personal expenses, owning and operating your own business, automobiles, taxes, employment and much more.



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## Business and Personal Law

9035 Grades 10, 11, 12

½ credit

↔ DUAL ENROLLMENT OPTION AVAILABLE

**BUS368 Business Law I (3 credits)**



Learn about legal concepts that will impact your life now and in the future on a personal level and within the business community. In this course, you will develop an understanding of your legal rights and responsibilities as a citizen, consumer, and employee. Focus areas include an introduction to law, the structure of the U.S. and New York State court systems, contract law, consumer law, criminal law, civil law, family/domestic law, employment law and careers in the legal profession.

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## Start it Up! Entrepreneurship

(Fall) 9038 Grades 10, 11, 12

½ credit

⊕ Suggested Pairing – Make it your Business! – Business Planning

[Career and Technical Endorsement Course](#)

↔ DUAL ENROLLMENT OPTION AVAILABLE

**BUS365 Entrepreneurship (3 credits)**



This course is designed to introduce students to the role that entrepreneurship and small business play in our economic system. An in-depth study of the various steps involved in starting a new business and the financial, legal and government aspects critical to a successful small business will be covered. Topics include marketing, competition, communication, human resources, type of ownership, location and setting up your business. Students will be involved in a variety of activities including project based learning, guest speakers, visits to local businesses and a field trip to the [43 North Business Plan Competition](#).

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## Make it Your Business! Business Planning

(Spring) 9041 Grades 10, 11, 12

½ credit

⊕ Suggested Pairing – Start it Up! – Entrepreneurship

[Career and Technical Endorsement Course](#)

If you like Entrepreneurship and the hit show “Shark Tank”, this is the course for you! This course will go more in-depth and students will create and present a detailed business plan. We will work with a variety of local entrepreneurial organizations where students are eligible to compete in a business plan competition. Other topics include Identifying and meeting a market need, marketing your business, Distribution, Promotion, Selling and Operations Management. Students will also visit 43 North Business Plan Competition headquarters at Seneca Tower.



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### CFM: Career Skills and Success

*(Fall) 9032 Grades 9, 10, 11, 12*

*½ credit*

⊕ *Suggested Pairing – CFM: Financial Literacy*

[Career and Technical Endorsement Course](#)

What do you want to be when you grow up? Students complete and analyze a variety of assessments which will assist them in investigating and exploring careers based on their interests, values, and skills. Students will explore post-secondary education and training options, learn about the job seeking process; including building a resume and preparing for interviews. They will gain an understanding of workplace regulations, the importance of lifelong learning, leadership and ethics in the workplace, and workplace readiness skills.

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### CFM: Financial Literacy

*(Spring) 9045 Grades 9, 10, 11, 12*

*½ credit*

⊕ *Suggested Pairing – CFM: Career Skills and Success*

[Career and Technical Endorsement Course](#)

Learn how to be smart with your money and the importance of managing your money wisely so you don't go broke in the future! Through project-based tasks using true-to-life scenarios, students will learn how to navigate and make financial decisions related to saving & spending, budgeting, money management & banking, credit & loans, investing, insurance, taxes, and becoming a savvy consumer.

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### Internship Program (CEIP)

*(Fall) 9050 Grades 11, 12*

*½ credit*

[Career and Technical Endorsement Course](#)

⊗ **Required:** Student must have their own transportation to and from the mentor's job site

▶ Not all internships are located in Lancaster

▶ **An internship has a time commitment and therefore schedules need to be considered prior to registering.**

The Career Exploration Internship Program (CEIP) is designed to give students hands-on experience in a career field of their choice. It includes workplace topics, such as resume preparation, effective interviewing techniques, teamwork, projecting a professional image, career research and experience connections. Students are assisted with the placement of an internship working with an employer at a job site.



### Keyboarding & Microsoft Word

*(Fall) 9012 Grades 9, 10, 11, 12 (formerly 'Digital Communications')*

*½ credit*

⊕ *Suggested Pairing – Microsoft Excel & PowerPoint*

[Career and Technical Endorsement Course](#)

What is it? A real world course that prepares students for fast, efficient forms of digital communications. Students learn efficient keyboarding skills and become skilled in Microsoft Word features by completing hands on simulations similar to what would be found in high school, college and business.

Why it matters? Be quick and efficient! Students will be able to use tools that are necessary for high school, college, the workplace and everyday. Successful students will be eligible for Microsoft Office Specialist certifications which are among the most sought after by hiring managers.



### Microsoft Excel & PowerPoint

*(Spring) 7523 Grades 9, 10, 11, 12 (formerly 'Applied Digital Skills')*

*½ credit*

⊕ *Suggested Pairing – Keyboarding & Microsoft Word*

[Career and Technical Endorsement Course](#)

What is it? Microsoft Office, Social Media and Google Applications are how businesses communicate today. Utilize these tools to create spreadsheets and presentations, and learn how to use social media in a professional manner while gaining experience with Google Apps and Future Edge.

Why it matters: With so much competition in the job market, it should come as no surprise that those with Microsoft Office, Social Media skills and experience using Google Apps are often selected over those who do not. This class will give you the expertise in all these critical areas.



### Principles of Marketing

*(Fall) 9037 Grades 10, 11, 12*

*½ credit*

⊕ *Suggested Pairing – Marketing Sports and Entertainment*

[Career and Technical Endorsement Course](#)

### ↔ DUAL ENROLLMENT OPTION AVAILABLE

**BUS320 Principles of Marketing (3 credits)**



Marketing provides the bridge between business and consumers. This course will open the student's eyes to the world of marketing that is all around and to become educated decision makers. Content revolves around the basic marketing functions, selling, public service announcements, promotion, market research, social media, customer service and buying behavior. Marketing is a course for anyone to take who is and will continue to be a consumer.





## Marketing Sports and Entertainment

*(Spring) 9040 Grades 10, 11, 12*

*½ credit*

⊕ *Suggested Pairing – Principles of Marketing*

[Career and Technical Endorsement Course](#)

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**BUS368 Sports & Entertainment Marketing (3 credits)**



This course is designed to study marketing principles as it relates to the sports and entertainment industry. Instructional areas will include: marketing, advertising, promotion, internet/social media marketing, sponsorship and endorsements, event marketing, and branding an image. A basic understanding of the principles of marketing is helpful to enroll in this course, but not a requirement. Classroom instruction will be reinforced through the use of group/individual projects, guest speakers, possible field trip experiences, current periodicals, computer work, and lecture/discussions.

## Technology In Action

*9100 Grades 9, 10, 11, 12*

*½ credit*

Students involved in the Technology In Action class will learn a variety of innovative and engaging technology tools and assist in their implementation and utilization in the classroom and school district. This is a project-based hands-on experience in which students will be immersed in educational hardware and software applications and provide support and training to students, faculty and parents. To be successful you need to be an independent and self-motivated learner. Proposed Projects include: Individual Digital Portfolio (Video Resume), Website/App/Extension Hardware Review, Resource Development, Faculty Liaison, Technology Workshop

**CAREER DEVELOPMENT & OCCUPATIONAL STUDIES**

## *Career Development & Occupational Studies (CDOS)*

The Career Development and Occupational Studies Commencement Credential is a certificate recognized by the NYS Board of Regents for students demonstrating entry-level work readiness. This credential is often awarded as an addition to the diploma, but can also serve as an approved pathway to obtain a diploma or as a sole exiting credential. To be eligible, students will need to complete a career plan each year and obtain 216 hours of career and technical education (CTE) instruction (54 of those hours being work-based learning being evaluated by an employability profile). The coursework included on this page is an available option created by the district to provide students with meaningful access to the CDOS Credential.

### *CDOS - Course Descriptions*

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#### CDOS – Business Math

*9987 Grades 9, 10, 11, 12*

*1 credit*

Business Mathematics is a two-semester course of which students learn to use mathematics effectively as a tool in their personal and business lives. After students, have completed this course, they will be able to apply mathematical concepts in various personal and business situations. This class shows how math topics apply to real-life situations. In this class, the topics covered include percent, measurement, metric, fractions, unit conversions, checking accounts, bank fees, loans, taxes, work forms, problem solving, consumer purchases, credit, probability, odds, commissions, work related math skills, and more. Everything learned in this class will be put to good use immediately. This course may be used to meet the mathematics requirements for graduation.

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#### CDOS – Business Computer Applications

*(Spring) 9982 Grades 9, 10, 11, 12*

*½ credit*

This course will focus on teaching students how to effectively integrate computers into their academic, professional, and personal lives. Students will learn how to efficiently keyboard, identify and explain how the computer components interact, and develop the skills necessary to effectively utilize the Microsoft Word, Excel, PowerPoint and various Google application programs. Prior knowledge about keyboarding basics is strongly suggested but not required for this course.

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#### CDOS – Financial Literacy

*(Fall) 9981 Grades 9, 10, 11, 12*

*½ credit*

Financial literacy is critical for students as they progress through their lives. The importance of being financially literate is crucial to success and stability. In this course students, will learn to manage money to build wealth, in order to financially attain the lifestyle, they desire. Students will attain the knowledge and skills necessary to navigate the financial services industry and begin the financial planning process. Topics include: earning and managing money, completing tax returns, budgeting, strategies of saving and investing, online banking, how to use credit, major purchasing decisions, and ways to protect against risk and financial loss.

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#### CDOS – Keyboarding

*(Fall) 9983 Grades 9, 10, 11, 12*

*½ credit*

This hands-on course focuses on mastery of the keyboard and touch-typing. Emphasis is placed on proper keyboarding techniques during the first ten weeks. Emphasis is placed on the development of speed and accuracy during the second ten weeks. Evaluation of speed and accuracy is based on timed tests throughout the course. Applications of word processing skills will be assessed by submission of correctly formatted, accurate documents and lab assignments.

**CAREER DEVELOPMENT & OCCUPATIONAL STUDIES**

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**CDOS – Intro to CDOS Internship***9368 Grades 11, 12**½ credit***⊗ Required: Pre-approval by CDOS Coordinator**

(WBL hours are typically earned at either Harris Hill Nursing Facility or an Elementary Ed. Internship)

This coursework is created in conjunction with the student participating in work-based learning internship experience. Students must complete a minimum of 54 hours of approved work-based learning to earn credit. The coursework reflects a variety of activities on obtaining and succeeding at a job. Each month there are a variety of required activities to be completed. Some of the activities for this course include career planning, career exploration, goal setting, career research and personal skills reflection.

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**CDOS – Advanced CDOS Internship***9369 Grades 11, 12**½ credit***⊗ Required: Pre-approval by CDOS Coordinator**

(WBL hours are typically earned at either Harris Hill Nursing Facility #9365 or an Elementary Ed. Internship #9366)

This course is created in conjunction with the student participating in a work-based learning internship experience. Students must complete a minimum 54 hours of work-based learning to earn course credit. Students will complete a series of activities to justify their mastery of the CDOS/CTE Learning standards focused on career development, integrated learning, universal foundation skills, and career majors.

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**CDOS Career Focused Research Project***9367 Grades 10, 11, 12**½ credit***⊗ Required: : Pre-approval by CDOS Coordinator**

This is an independent course of study that requires no internship hours. This course is divided into 6 learning components: researching a career of interest, researching post-secondary training/education, researching job opportunities, conducting interviews with professionals, participating in a job shadow experience, and a final presentation.



## English - Course Descriptions

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### English 9

1309 Grade 9

1 credit

In the 9th grade ELA curriculum, students will read, discuss, and analyze contemporary, as well as classic texts, focusing on how complex characters develop through interactions with one another and how authors structure text, to accomplish that development. There will be a strong emphasis on reading closely and responding to text dependent questions, annotating text, and developing academic vocabulary in context. We will also focus on the ability to make evidence-based claims, which will empower students with critical reading and writing skills emphasized in the Common Core. Finally, we will be focusing on research skills and use of proper MLA citations to provide strong, thorough textual evidence to support student claims. Writing assignments are frequent and varied, relying on original thought and analysis. Students will be expected to engage in class discussions and participate in group activities throughout the year.

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### Pre-AP English 9

1409 Grade 9

1 credit

★ **Note:** This course will receive 1.04 Honors weighting

Pre AP English 9 builds on the foundation of Pre AP English 8, with an emphasis on the recursive moves that matter in preparing students for the challenges of college-level reading, writing, and discussion (students are not required to have taken Pre-AP English 8 to take this course). While Pre AP English 8 introduces the fundamental routines of close observation, critical analysis, and appreciation of author's craft, Pre AP English 9 requires students to apply those same practices to a new host of nonfiction and literary texts. As readers, students develop a vigilant awareness of how the poet, playwright, novelist, and writer of nonfiction alike can masterfully manipulate language to serve their unique purposes. As writers, students compose more nuanced analytical essays without losing sight of the importance of well-crafted sentences and a sense of cohesion.

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### English 10

1310 Grade 10

1 credit

The course is designed to prepare students for college entrance and the English Regents Exam. Several literary classics will be read and studied, such as *Fahrenheit 451*, *A Raisin in the Sun*, and *A Midsummer Night's Dream*. Critical thinking and communication skills will be required for essay responses to literature. All foundational aspects of English Language Arts will be built upon and students will be expected to develop their writing, reading, and thinking skills to meet the needs of a 21st century learner.



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## English 10 - Honors

*1410 Grade 10*

★ **Note: This course will receive 1.04 Honors weighting**

*1 credit*



★ Recommend: 90%+ average in English 9, a completed writing task, and two teacher recommendations

▲ Strongly recommended if interested in AP Language & Composition or AP Literature\* as a Junior or Senior

Literary topics for study include mythology, non-fiction and fiction prose and poetry. In addition to the above, there are a variety of selected short stories, essays, and articles, Shakespearean comedies and tragedies, all pieces suggested and developed through use of the Common Core Standards. Vocabulary study, several short critical analysis papers, and journal writings are developed from the literature. A major research project is assigned which is focused on evidenced-based research, as well as close reading techniques study. All parts of the English Regents Exam are major parts of the curriculum study. A completed summer reading assignment is due on the first day of school.

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## English 11

*1311 Grade 11*

*1 credit - NYSSB*

This course concentrates on fictional and non-fictional American Literature. Close reading and analysis of novels, plays, short stories, and poems will lead to instruction on writing literary analysis, as well as expository, creative, and argument papers. Argument writing will emphasize claim formulation, and the development, defense, and support of argument using textual evidence across genres and rhetorical strategies. The American Dream and other major themes will be looked at through the writing of Fitzgerald, Hemingway, Miller, Whitman, Dickinson, Steinbeck, and Wilson. The range of conventional critical reading and writing skills necessary to show proficiency and mastery on the New York State Regents Assessment will be honed throughout the year.

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## AP English Language and Composition

*1426 Grades 11*

*1 credit - NYSSB*

★ Recommended: Successful completion of English 10 Honors with an average of 90% or better

This is an intensive writing course designed to prepare students for the rigors of college writing and for the Advanced Placement Exam in composition. It is modeled after a typical "Freshman Composition" course and focuses primarily on rhetorical analysis of non-fiction books, essays, and articles. Rhetoric can be defined as "the study and the art of using language effectively." Using Aristotle's model of the rhetorical triangle (Word/Logos; Author/Ethos; Audience/Pathos), students will learn to analyze the language choices authors use to create meaningful and persuasive texts. Students will write weekly essays focusing on analysis, persuasion, and synthesis while developing their own voice and style. A summer reading/writing assignment will be given in May and will be due the first day of school. Students will be asked to sign a contract upon registering for this course.





## English 12\*

*1312 Grade 12**1 credit - NYSSB*↔ **DUAL ENROLLMENT OPTION AVAILABLE****ENGL101 Research and Writing (3 credits)**

For twenty weeks of the course, Seniors enrolled in this course will intensely focus on the technical attributes of the writing process required at both the college and post high school career levels. Individuals will be given the invaluable opportunity to earn three college credits for a College Composition course through Bryant and Stratton college, through their English 12 Regents class and at no cost to the student. This course will assist in reversing the disturbing trend of incoming freshman and entry level employees who are either being assigned to remedial writing classes, at the college level, or denied employment. Students will master the ability to construct thesis driven papers, develop a college admissions' writing sample and thoroughly evaluate their own strengths and weaknesses, within the writing and research process, to ensure their individual success after graduation.

Throughout the second semester, the course will focus on literature and literary criticism of works, which will also help prepare students for what they will experience after high school. Close reading, analysis and evaluation skills will be refined and honed, as these are an integral component of the Common Core Learning Standards. Students will demonstrate their ability to conduct in-depth, critical analysis of literature, appropriate for their post high school studies. Discussion, reflection, and evaluation, which will be text dependent, and the aforementioned, will be a major component of the second semester.

All English 12 students will be required to complete a final exam/project at the end of the year. Students will leave English 12 with both the understanding and confidence necessary to succeed academically and socially, in the rigorous climate of today's society.

## AP English Literature and Composition\*

*1412 Grade 12**1 credit - NYSSB*

★ Recommended: Classroom average of 90% or higher at the time of scheduling for senior year

↔ **DUAL ENROLLMENT OPTION AVAILABLE****LITR220 Introduction to Literature (3 credits)**

Students have been reading, writing, and studying various forms of prose and poetry throughout high school. The process in English Literature and Composition involves a more in-depth approach to understanding and analyzing what students read, as well as considering structure, style, and specific elements, such as the use of figurative language, imagery, symbolism and tone. This course is geared to prepare the 12th grade student for the National Advanced Placement Exam in Literature and Composition and/or to challenge the above average student of English. Using a comparative analysis approach to literature, students read, analyze and compare works according to subject, form and point of view. Literature is taken from over 600 years of poetry and prose. College application work is focused in September and October in the classroom and in conjunction with counseling using Naviance. Literature analysis, comparative study of writing styles, and techniques used through various centuries is studied. A summer reading, writing, and research project is given in June and is due on the first day of class.





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### Print Journalism\*

*1316 Grades 10,11,12*

*½ credit*

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**COM100 Media Literacy (3 credits)**



The student will learn the fundamentals of print journalism: writing, editing, and producing a paper. Evidence of this knowledge will be shown in the staffing and production of the school's newspaper. This is a "hands-on" course.

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### Broadcast Journalism & Media Studies\*

*1336 Grades 10,11,12*

*½ credit*

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**COM210 Introduction to Media Writing (3 credits)**



Broadcast media is the focus of this course. The course will address current media issues including television advertising, radio and television news, talk shows, and entertainment news. Students will have an opportunity to create their own commercials and talk shows. The goal is for students to be more aware of the way broadcasters and media outlets try to influence and shape their decisions, from current news events to which products they buy. Students DO NOT need to take Print Journalism in order to sign up for this course.

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### Prep For Success

*1004 Grade 12*

*½ credit*

This course is designed for college-bound seniors looking to prepare for life after LHS. The first semester curriculum will include assistance with college applications, resumes, college selection, career choices, job and interview skills, and discussions on how to choose the college/career path that is right for you. Several guest speakers from local colleges will speak. The second semester covers topics such as budgeting, time management, life skills, campus life, mental health, and "adulting". This class meets every other day for the full year and is graded P/F. This is the course to prepare you for the rest of your life!

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### Public Speaking

*1414 Grades 10, 11, 12*

*½ credit*

This course provides students with a variety of public speaking experiences. It focuses on all aspects of Public Speaking including Active Listening, Speech Writing, Audience Awareness, coping with Stage Fright, Physical & Vocal Delivery Concerns, & Evaluating Feedback. Fun class activities are meant to increase self-confidence in the student. Speeches will include a variety of Impromptu, Extemporaneous, Prepared Manuscripts, and Memorized speeches. The final exam will consist of one prepared 10-minute presentation.



## Family & Consumer Sciences (FACS) - Overview

Courses in Family and Consumer Science teach valuable life-management skills. They are assets to students considering any of the following career choices after high school: food service industry, dietetics, hotel/restaurant/hospitality management, nursing, health care, child care worker, nursery school teacher aide, food marketing, sports nutritionist and many others.

### SUNY Buffalo State University College Access Program

The Family and Consumer Science Department has partnered with the SUNY Buffalo State University's College Access program (CAP) and offers college level courses taken at LHS as part of the normal school day, enabling students to earn college credit. Students earning a grade of "C" or better are eligible to transfer these SUNY approved courses.



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### Career and Technical Education Endorsement (CTE)

The Lancaster Academy of Hospitality and Tourism is an accredited CTE program with pathways for students seeking Regents and Advanced Regents diplomas. Students learn "hands-on" career skills while earning a Regent's or Advanced Regent's Diploma in order to prepare for college or other higher education studies. Students apply academic concepts to real-world situations with:

- Internships
- Mentorships
- Job shadowing
- Industry-based certifications
- Opportunity to earn college credit
- Other work-based learning opportunities







## *Family & Consumer Sciences (FACS) - Course Descriptions*

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### Career and Financial Management (CFM)

*9911 Grades 9,10,11,12*

*½ credit*

Students will acquire the lifelong skills necessary to manage their personal and professional lives. Students are given the opportunity to explore careers based upon their interests and aptitudes. An emphasis will be placed on providing students with the opportunity to learn about the features of our economy, explore a variety of careers, learn the skills and competencies needed for success in the workplace and to begin to become financially literate. Students will realize the significance of their part in the economic system. Important management and economic concepts are defined in relation to business transactions and to the individual as an entrepreneur, employee, consumer, and citizen.

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### Food and Fitness

*9912 Grades 9,10,11,12*

*½ credit*

Are you interested in living a healthy lifestyle without sacrificing flavor in the foods you eat? Do you have specific personal fitness goals or are you interested in developing such goals? In this course, students will learn to plan and prepare foods for good health that will fit a teenager's preference and performance goals. Students will develop nutrition awareness, examine their eating habits and learn their own individual requirements for improving overall physical health and fitness as they design a personal fitness plan. The focus of the course is connecting eating habits with fitness goals, however, topics including fad diets, body image and eating disorders will also be discussed. This course is an excellent choice for anyone participating in sports programs or those interested in developing a personal health and fitness routine.

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### Food and Nutrition

*9926 Grades 9,10,11,12*

*½ credit*

If you like to cook and eat, experiment with your own recipes, are planning to go away to college or be on your own soon, this course offers necessary skills you will use for a lifetime. Through participation in cooking lab activities, students will learn basic food preparation and safe food handling techniques including how to read and follow a recipe and proper ingredient measuring. Students will also explore a variety of careers related to food, nutrition, and the hospitality industry as they learn about the nutritional value of foods eaten in our daily lives, meal management, food purchasing and meal service techniques. You will participate in the preparation of many different food items including fruits, vegetables, quick breads, yeast breads, cakes, pastries, cookies, eggs, meats, and various grain products.

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### Food and Culture

*9950 Grades 9,10,11,12*

*½ credit*

Are you adventurous? Do you like to travel? Do you find other people's customs and traditions interesting? Do you like to cook? If you answered yes to these questions, then join us as we cook our way around the world! The influence of culture on foreign and American cuisine is the focus of this course. First, we will explore regional cooking in the United States, including Tex-Mex, Creole, Cajun, Southern, New England and Western foods. Then we'll take our taste buds abroad to learn about food customs and traditions in other countries such as France, Italy, Germany, England, Ireland, Greece, China, and Japan to name a few. This course is great for students wishing to expand their cooking know-how and taste experiences. Students who enjoy Social Studies and Foreign Languages may find this course especially interesting.



## Event Planning and Management

*9918 Grades 9,10,11, 12*

*½ credit*

★ Recommended: Students should have taken one FACS cooking class

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**HTR375 Events Management (3 credits)**



This course will give you a look into the almost invisible but greatly important career of event planning. This course will explore the various aspects of event planning as well as the characteristics and skills necessary to be a successful event planner. Topics include: Defining event planning and its characteristics, exploring why clients use event planners, types of events, your job as an event planner, financial aspects, contracts, and insurance issues, and the importance of networking. Students will assist with planning and managing an event relevant to the course topics.

## Advanced Food and Beverage

*9920 Grades 10,11,12*

*½ credit*

⊗ Required: Students must have taken one FACS cooking class

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**HTR200 Sanitation and Safety in Food Service I (3 credits)**



Have you previously taken a cooking class here at LHS and loved it? Are you looking for a class that would further challenge you and build your culinary skills? If you answered yes to these questions, this course is for you! Students will build upon the prior information and activities from their previous Family and Consumer Science cooking classes. Food labs will include preparation of meat and poultry, soups, salads, pastries, candies and seasonal specialties. Additional topics include the role of science in the world of food, meal management and food purchasing, careers in the food industry, advanced culinary and gourmet food techniques.



## Health - Course Descriptions

### Health

*7610 Grade 9*

*½ credit*

The Health course at Lancaster High School is designed to assist students in obtaining accurate information, developing positive attitudes and acceptance of personal responsibility in making wise decisions concerning lifelong health. A variety of topics are explored with a focus on how lifestyle choices impact our quality of life. There are guest speakers for various topics concerning teen wellness. This course is a general overview of Health. New York State requires the successful completion of this course for graduation. How will the choices you make today impact your life tomorrow?

## Physical Education - Course Descriptions

### Physical Education 9/10

Students in 9th and 10th grade will receive a core program based on the philosophy that a physically educated student needs the elective experience of a wide variety of activities before their junior year. This means that ALL ninth and tenth graders will receive the exact same activities over a two year period as well as be able to select an experience level for participation (see below). The emphasis of this course will be on developing and improving skills and will be supported by assessments.

**▲ Note:** Classes may be combined based on the number of available teachers each period

### Physical Education 9/10 – Team Sports

*8539 Grade 9,10*

*½ credit*

(High Intensity) This level is designed for students who want to participate in a variety of team games. These games are designed to provide highly skilled students an opportunity to advance their skills in such games and in addition to the required fitness center and pool units but not limited to, soccer, softball, lacrosse, broomball, volleyball, basketball, wall ball, team handball, ultimate games, rugby, flag football. (Activities may vary based on facilities)

### Physical Education 9/10 – Lifetime/Recreational

*8538 Grade 9,10*

*½ credit*

(Low/Moderate Intensity) This level is designed for students who want to participate in a variety of activities that are not competitive in nature and focus more on lifelong fitness activity. These activities are designed to provide the student with the experience of participating in a group setting for the enjoyment of physical activity. These activities are (but not limited to): yoga, table tennis, cardio kickboxing, dance, Kin Ball, pickleball, snowshoeing, Kan Jam, and frisbee golf. These activities are small sided games and lead up type games in addition to the required fitness center and pool units. (Activities may vary based on facilities)



## Physical Education 11/12

### ↔ DUAL ENROLLMENT OPTION AVAILABLE

Registration is done on-line through [www.ecc.edu](http://www.ecc.edu).

**PE202 Physical Fitness I (1 credit hour)**

**PE203 Physical Fitness II (1 credit hour)**



The Lancaster Physical Education Department has partnered with SUNY Erie and offers college courses at our school through the Advanced Studies Program. Students may be eligible to earn college credit for their physical education curriculum taken during the school day, as part of their physical education curriculum, during Grade 11 and/or Grade 12. In order to receive SUNY Erie credit, students must register and pay tuition for the courses.

★ All grade 11, 12 students, (including those that register for SUNY: ERIE) take the course as outlined below.

Students in grades 11 and 12 will receive a program that is elective based, with each class having a particular theme. The emphasis of this course will be on demonstrating competency and proficiency in performance and cognitive assessments. Students will be asked to choose a theme (see below) and also have a required fitness center and pool unit.

▲ Note: **Classes may be combined based on the number of available teachers each period**

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## Physical Education 11/12 – Team Sports

### **8540 Grades 11,12**

**½ credit**

(High Intensity) This level is designed for students who want to participate in a variety of team games. These games are designed to provide highly skilled students an opportunity to advance their skills in such games and in addition to the required fitness center and pool units, but not limited to, soccer, softball, lacrosse, volleyball, basketball, broom ball, team handball, ultimate games, rugby, flag football. This level is geared toward learning the rules of the game for possible officiating duties. *(Activities may vary based on facilities)*

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## Physical Education 11/12- Lifetime/Recreational

### **8541 Grades 11/12**

**½ credit**

(Low/Moderate Intensity) This level is designed for students who want to participate in a variety activities that are not competitive in nature and focus more on lifelong fitness activities. These activities are designed to provide the student with the experience of participating in a group setting for the enjoyment of physical activity. These activities are but not limited to, yoga, table tennis, cardio kickboxing, dance, Kin Ball, pickleball, snowshoeing, KanJam and frisbee golf. *(Activities may vary based on facilities)*



## Lifeguard Training

8550 Grades 10\*,11,12

½ credit

★ **Recommendation:** American Red Cross requires students to be age 15+ at start of course and must demonstrate an above average proficiency in swimming. Students must swim a minimum of 300 yards continuously, then swim an additional 25 yards holding a 10 pound weight (brick) without stopping and also have the ability to tread water for 2 minutes, no arms.

⊗ **Required:** Grade 10 students must receive instructor permission

### ↔ DUAL ENROLLMENT OPTION AVAILABLE

Registration is done on-line through [www.ecc.edu](http://www.ecc.edu).

### PE289 Lifeguarding (1 credit hour)

The purpose of this class is to teach students the knowledge and skills needed to prevent and respond to aquatic emergencies. The course content and activities prepare students to recognize and respond quickly and effectively to emergencies. Upon successful completion of all course requirements, students will earn American Red Cross certification for Lifeguarding for the Professional Rescuer (includes CPR/AED/First Aid).





# Math – Planning Guide

Beginning in Grade 8, follow one of the pathways outlined below. (see Math – Planning Flowchart for a visual representation)

## Regents Math

All students following Regents Math take

- ✓ Math 8                                    1 credit    Grade 8
- ✓ Algebra I                                1 credit    Grade 9

Then follow Path A below. Path B is by recommendation ONLY

### Path A

All required courses above plus

- ✓ Geometry                                1 credit Grade 10
- ✓ Algebra II                                1 credit Grade 11

And any ONE of the following choices

- SUNY Pre-Calculus    1 credit Grade 12
- AP Statistics            1 credit Grade 12
- AP Computer Science   1 credit Grade 12

### Path B (by recommendation only)

All required courses above plus

- ✓ Geometry (Lab)                        1 credit Grade 10
- ✓ Algebra II (Lab)                        1 credit Grade 11
- ✓ College Math                            1 credit Grade 12
  - 1<sup>st</sup> sem – exam prep for Algebra II retries
  - 2<sup>nd</sup> sem – College Entrance Math

And any ONE of the following choices

- SUNY Pre-Calculus    1 credit Grade 12
- AP Statistics            1 credit Grade 12
- AP Computer Science   1 credit Grade 12

## Honors Math

All students following Honors Math take

- ✓ Algebra I                                1 credit    Grade 8
- Then follow Honors or Regents Track Below

### Honors Track

- ✓ Geometry (H)                        1 credit Grade 9
- ✓ Algebra II (H)                        1 credit Grade 10

Then stay path or decelerate

Stay Path

- ✓ Pre-Calculus (H)    1 credit Grade 11
- ✓ AP Calculus            1 credit Grade 12

Decelerate

- ✓ SUNY Pre-Calculus   1 credit Grade 11
  - Calculus (R)            1 credit Grade 12
- Optional after completing SUNY Pre-Calc

### Regents Track

- ✓ Geometry (R)                        1 credit Grade 9
- ✓ Algebra II (R)                        1 credit Grade 10

## Additional Options for both Honors and Regents Track

- AP Statistics            1 credit Grade 11 or 12
- AP Computer Science   1 credit Grade 11 or 12

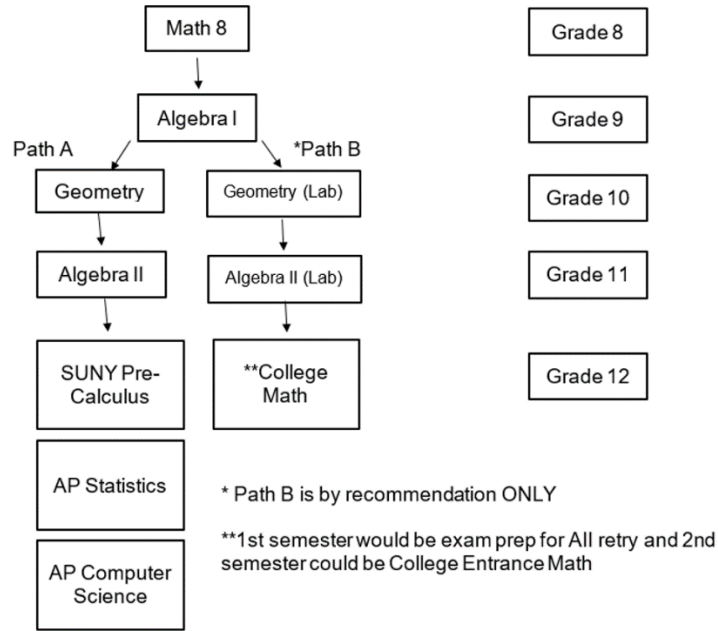


## Math – Planning Flowchart

Visual representation of the pathways beginning in Grade 8. For a detailed text version, see Math – Planning Guide.

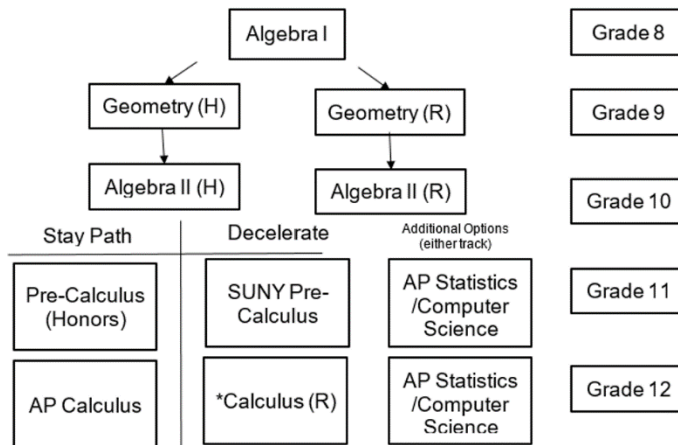
### Flowchart 1: Regents Pathway

**Regents:**



### Flowchart 2: Honors Pathway

**Honors:**



\*Students who took SUNY Pre-Calc in grade 11 would be the students who would have the option to take Calculus (R).



## Math - Course Descriptions

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### Algebra

**3538 Grade 9**

**1 credit**

★ **Passing the NYS Regents Algebra exam is required for graduation.**

⊗ Required: TI-84+ Graphing Calculator

Algebra is the first mathematics course in the high school. Algebra provides tools and ways of thinking that are necessary for solving problems in a wide variety of disciplines. This course will assist students in developing skills and processes to be applied using a variety of techniques, including technology, to successfully solve problems in a variety of settings including: linear equations in one variable, quadratic functions with integral coefficients and roots as well as absolute value and exponential functions. Students will take the NYS Regents Algebra exam in June. Passing this exam is required for graduation.

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### Double Block Algebra

**Grade 9**

**1 credit**

★ **Passing the NYS Regents Algebra exam is required for graduation.**

⊗ **NOTE: Teacher's work directly with counselors to determine placement**

⊗ Required: TI-84+ Graphing Calculator

Double Block Algebra is an Algebra course in which students have math two consecutive periods every day. Algebra is the first math course that students take in high school, and students must take the NYS Algebra Exam in June as it is a requirement for graduation. This course will assist students in developing skills and techniques, including technology, to successfully solve problems in a variety of settings. Major topics include linear functions, quadratic functions and exponential functions. In Double Block, students will have extra time to participate in team building activities, work on white boards, complete math games and projects, and participate in other hands-on activities to enhance understanding.

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### Honors Geometry

**3433 Grade 9**

**1 credit**

★ Recommendation: Successful completion of accelerated Algebra with a final average of 83%+ and NYS Regents Algebra final exam score of 80%+

★ **Passing the NYS Regents Geometry exam is the second of three required for an Advanced Regents Diploma**

⊗ Required: TI-84+ Graphing Calculator



Geometry is the second course in mathematics for high school students. Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. Students will use the traditional tools of compass and straightedge. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences. Students will take the NYS Regents Geometry exam in June. This exam is the second of three math exams required for an Advanced Regents diploma.





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## Geometry Regents

**3422 Grade 10**

**1 credit**

★ **Passing the NYS Regents Geometry exam is the second of three required for an Advanced Regents Diploma**

⊗ Required: TI-84+ Graphing Calculator

Geometry is the second course in mathematics for high school students. Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. Students will use the traditional tools of compass and straightedge. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences. Students will take the NYS Regents Geometry exam in June. This exam is the second of three math exams required for an Advanced Regents diploma.

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## Geometry Regents Lab

**Grade 10**

**1 credit**

★ **Passing the NYS Regents Geometry exam is the second of three required for an Advanced Regents Diploma**

⊗ **NOTE: Teacher's work directly with counselors to determine placement**

⊗ Required: TI-84+ Graphing Calculator

Geometry is the second course in mathematics for high school students. Students will have a lab period for reinforcement every other day. Within this course, students will have the opportunity to make conjectures about geometric situations and prove in a variety of ways, both formal and informal, that their conclusion follows logically from their hypothesis. Students will use the traditional tools of compass and straightedge. Geometry is meant to lead students to an understanding that reasoning and proof are fundamental aspects of mathematics and something that sets it apart from the other sciences. In addition to meeting on a daily basis, students will have an additional reinforcement period every other day. Students will take the NYS Regents Geometry exam in June. This exam is the second of three math exams required for an Advanced Regents diploma.

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## Honors Algebra II

**3521 Grades 10,11**

**1 credit**

★ Recommendation: Successful completion of Honors Geometry & NYS Regents Algebra Common Core final exam score of 80%+

★ **Passing the NYS Regents Algebra II exam is the capstone of three required for an Advanced Regents Diploma**

⊗ Required: TI-84+ Graphing Calculator



Algebra II an upper-level course and a continuation and extension of the two courses that precede it. While developing the algebraic techniques that will be required of students who continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. Technology will provide students the means to address a problem situation to which they might not otherwise have access. Students will take the NYS Regents Algebra II exam in June.



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## Algebra II Regents

*3522 Grades 10, 11*

*1 credit*

★ **Passing the NYS Regents Algebra II exam is the capstone of three required for an Advanced Regents Diploma**

⊗ Required: TI-84+ Graphing Calculator

Algebra II an upper-level math course and is a continuation and extension of Algebra I and Geometry. While developing the algebraic techniques that will be required of students who continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. Technology will provide students the means to address a problem situation to which they might not otherwise have access. Students will take the NYS Regents Algebra II exam in June.

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## Algebra II Regents Lab

*3523 Grades 10, 11*

*1 credit*

★ **Passing the NYS Regents Algebra II exam is the capstone of three required for an Advanced Regents Diploma**

⊗ **NOTE: Teacher's work directly with counselors to determine placement**

⊗ Required: TI-84+ Graphing Calculator

Algebra II an upper-level math course and is a continuation and extension of Algebra I and Geometry. While developing the algebraic techniques that will be required of students who continue their study of mathematics, this course is also intended to continue developing alternative solution strategies and algorithms. Technology will provide students the means to address a problem situation to which they might not otherwise have access. In addition to meeting on a daily basis, students will have an additional reinforcement period every other day. Students will take the NYS Regents Algebra II exam in June.

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## Honors Pre-Calculus

*3014 Grade 11*

*1 credit*

★ Recommendation: A final average of 85%+ in Honors Algebra II and NYS Regents Algebra II exam.

★ **This course should be considered only by highly motivated students.**

⊗ Required: TI-84+ Graphing Calculator



The objective of this course is to keep the students who are planning to take AP Calculus in their senior year together for two years so the needless repetition of topics can be eliminated and the students can gain an appreciation for rigorous mathematical investigation. This course should be considered only by highly motivated students and will include the first 2 chapters of AP Calculus. Students will take a teacher made assessment in June.



### Pre-Calculus

**3013 Grades 11, 12**

**1 credit**

★ Recommendation: A final average of 75%+ in Algebra II and 65%+ on NYS Algebra II exam. Algebra II Lab students should seek teacher recommendation.

⊗ Required: TI-84+ Graphing Calculator

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**MAT124: Functioning and Modeling II (4 credits)**



This course is designed to provide a sound foundation for seniors who are planning to enter a four-year college after graduation. Students in this class will deepen their algebraic skills as this course will emphasize mathematical thinking, the use of mathematical models and the understanding of mathematical functions and graphs. Beginning concepts of Calculus will be introduced. Students will have the opportunity to take this course for 4 SUNY college credits. Students will take a teacher made assessment in June.

### AP Calculus (AB)

**3412 Grade 12**

**1 credit**

★ Recommendation: A final average of 80%+ in Pre-Calculus Honors

★ ***This course should be considered only by highly motivated and mature students.***



↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**MAT161: Calculus I and MAT163 Using Technology to explore Calculus I (5 credits)**



This course consists of a full high school academic year of work that is comparable to 1.5 semesters of calculus in colleges and universities. It is expected that students who take AP Calculus will seek college credit, college placement, or both from post-secondary institutions of higher learning. Topics covered in this course include functions, graphs, limits, differential calculus and integral calculus. Applications of each topic are explored and the use of the graphing calculator is mandatory. In addition to the AP Exam in May, there will be a final assessment given by the instructor in June. This is a college level course and should be considered only by highly motivated and mature students. Students will have the opportunity to take this course for 5 SUNY college credits or AP college board credit.

### Calculus

**3411 Grade 12**

**1 credit**

⊗ Recommendation: Successful completion of Pre-Calculus

⊗ Required: TI-84+ Graphing Calculator

This course is designed for students who successfully completed Pre-Calculus and are going to a four year college but are not planning on taking AP Calculus. The course consists of a full high school academic year of work that is comparable to one semester of calculus in colleges and universities. Topics covered in this course include functions, graphs, limits, differential calculus and integral calculus. This is a college level course and a great foundation for success in college calculus. Students will take a teacher made assessment in June.



### AP Statistics

*3513 Grades 11, 12*

*1 credit*

- ★ Recommendation: A final average of 85%+ in Algebra II Regents
- ★ ***This course should be considered only by highly motivated and mature students***
- ⊗ Required: TI-84+ Graphing Calculator



#### ↔ DUAL ENROLLMENT OPTION AVAILABLE

**MAT311 Introductory Probability and Statistics (3 credits)**



This is a full high school academic year course that is comparable to 1-2 semesters of introductory college statistics. Students who take AP Statistics seek to receive college credit, college placement, or both, from post secondary institutions. This course covers such topics as exploratory statistical analysis, proper methods for data collection, probability of anticipating outcomes from given models, and applying statistical inference guides when researching data. In addition to the AP Exam in May, there will be a final assessment given by the instructor in June. This is a college level course and should only be considered by highly motivated, mature students who possess above average math and writing skills.

### College Math (SUNY MT 125)

*1420 Grade 12*

*1 credit*

- ★ Recommendation: Successful completion of Algebra II Regents Lab
- ⊗ **NOTE: Teacher's work directly with counselors to determine placement**
- ⊗ Required: Graphing Calculator

#### ↔ DUAL ENROLLMENT OPTION AVAILABLE

**MT125 College Mathematics (4 credits)**



This course is designed to provide a sound foundation for seniors who are planning to enter a two or four-year college after graduation. Algebra II skills are reviewed and extended. Functions, and their inverses are studied along with the properties, graphs and transformations of linear, quadratic absolute value, radical rational, logarithmic and exponential functions. Equations of the above functions as well as linear systems of equations and linear and absolute value inequalities are solved. Related application problems and projects are incorporated throughout. Students will have the opportunity to take this course for 4 SUNY COLLEGE CREDITS. Students retake the Regents Algebra II exam in January and take a teacher made assessment in June.

### Life Math

*3424 Grades 11, 12*

*1 credit*

- ★ Recommendation: Successful completion of a Geometry-level course

This class shows how math topics apply to real-life situations. In this class, the topics covered include percentages, measurements, metric, fractions, unit conversions, checking accounts, bank fees, loans, taxes, work forms, problem solving, consumer purchases, credit, probability, odds, commissions, work related math skills, and much more. We will also work on listening, teamwork, and communication skills. Everything learned in this class will be put to good use immediately. This math class is truly for life.



## Music Highlights

### Music Major

To successfully complete a 5-credit major in Music, a student must participate in an in-school musical organization for four years and earn one credit of Music Theory.

### Music Letter Criteria

- ✓ Satisfactory completion of 3 years of an In-school performing organization. This may include a combination of band, orchestra, or choir.
- ✓ Satisfactory completion of 3 years in an Extra-Curricular performing organization. These include any combination of:
  - Marching Band
  - Jazz Ensemble
  - Show Choir
  
  - School Musical
  - Steel Band
  - Musical Pit
- ✓ Performance at one NYSSMA/ECMEA sponsored solo festival
- ✓ Satisfactory completion of Music Theory

### Extra-Curricular Music Activities

- [Academy of the Visual and Performing Arts – Dinner Theatre Ensemble](#)
- [Brass Choir](#)
- [Jazz Ensemble](#)
- [Marching Band](#)
- [Tenor/Bass Choir](#)
- [Musical – Performing Arts](#)
- [Pit Orchestra](#)
- [Show Choir](#)
- [Stage Crew](#)
- [Steel Band \(CKSO\)](#)
- [Vocal Jazz](#)
- [Winter Guard – Varsity](#)
- [Woodwind Choir](#)



## Performance Ensembles

### Choral Program

All types and forms of music are studied and performed for the development of skills. Seasonal and competitive concerts involving mandatory attendance are held.

ALL CHORAL COURSES: 1 credit

#### *Concert Choir 6532*

- ⊗ Pre-requisite: Audition  
Advanced Ensemble – Grades 10-12

#### *Mixed Choir 6536*

- ⊗ Pre-requisite: Audition  
Training Ensemble – Grades 9(men), 10,11,12)

#### *Musical Theatre Ensemble 6533*

- Training Ensemble – Grades 9-12

### Instrumental Program

These groups study and perform all styles and types of music to develop skills. Four seasonal concerts, guest artists, competitions and festivals comprise the performance schedule. Participation during rehearsals, lessons and concerts is mandatory. Lessons once weekly required.

ALL INSTRUMENTAL COURSES: 1 credit

#### *Symphonic Band 6535*

- ⊗ Pre-requisite: Audition  
Advanced Ensemble – Grades 9-12

#### *Wind Symphony 6537*

- ⊗ Pre-requisite: Audition  
Intermediate Ensemble – Grades 9-12

#### *Concert Band 6531*

- Training Ensemble – Grades 9-12

#### *String Orchestra 6534*

- ⊗ Pre-requisite: Previous experience in orchestra playing a string instrument.  
This course is open to all string instrumental students. Orchestra will perform music from various genres including classical and contemporary. Grades 9-12

#### *Symphony Orchestra 6538*

- ⊗ Pre-requisite: Audition  
This course is an advanced orchestra for the more serious string student. The Orchestra will perform music from various genres including classical and contemporary. Students will have the opportunity to perform both string and full orchestra music. Grades 9-12



## Music - Course Descriptions

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### Music Theory 1

6530 Grades 10,11,12

1 credit

★ **Recommended:** Band, Orchestra or Choir experience

This course helps students develop an understanding of the elements of music while putting those elements to practical use. Students will learn more about reading, writing, and analyzing music utilizing written and aural examples from all time periods of music. Basic piano skills, an overview of music history, and the incorporation of music technology will enhance each student's learning experience.

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### AP Music Theory

6528 Grade 11.12

1 credit

★ **Recommendation:** Music Theory 1

AP Music Theory is an expansion and continuation of topics covered in Music Theory I. This college level course includes instruction in musical terminology as well as notational, compositional, musical analysis, and aural skills. Students may take the AP Music Theory Exam in the spring to earn college credit.



### Tech in Music

6543 Grades 11,12

½ credit

★ **Recommended:** Music Theory 1

This course is a hands on class that will expand your knowledge and skills in music technology! Students will learn to compose, arrange and edit with notation software. They will create multi-track compositions and recordings using a digital audio workstation (DAW). Ensemble experience and a background in music theory are highly recommended.

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### Piano and Guitar Performance

6544 Grades 11,12

½ credit

★ **Recommended:** Music Theory 1

Are you currently enrolled in a performing ensemble? Have you always wished you could learn to play piano or guitar? This course is for you! This course is designed for students who have completed Music Theory I but have little/no experience playing piano and guitar. Students will have basic performance skills on both instruments and present a short recital (in class) at the end of the semester.



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## Music Composition and Improvisation

*6545 Grades 11,12*

*½ credit*

★ *Recommended: Music Theory 1 and Tech in Music*

Did you ever wish you could create a song to the melody in your head? This course is designed to introduce advancing music students to the creative world of composition and improvisation. Students will develop skills in the areas of writing and performing original music. The students will serve as the creators, critics and performers of their own material!! Students will learn the compositional elements of style and form as they explore the rhythmic, melodic and harmonic aspects of creating music.

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## Beginning Guitar

*6546 Grades 9,10,11,12*

*½ credit*

This class is an opportunity for students without performance experience to increase their knowledge and understanding of music while learning to play the guitar. Course topics include basic theory skills and guitar performance. No previous musical experience required! This course may be taken with other music courses to earn a ½ or full credit in music.

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## Beginning Piano

*6547 Grades 9,10,11,12*

*½ credit*

This class is an opportunity for students without performance experience to increase their knowledge and understanding of music while learning to play the piano. Course topics include basic theory skills and piano performance. No previous musical experience required! This course may be taken with other music courses to earn a ½ or full credit in music..

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## Musical Theatre Ensemble

*6533 Grades 9,10,11,12*

★ Students must be signed up for another choir to take part in this group. It is non-audition based course.

This class has a concentration in ensemble singing, with additional elements such as dancing, blocking, and acting, based on students' interests. Focus is placed on development of healthy vocal technique, and the integration of character development into the performance of selections from the Musical Theater repertoire. Students will take part in musical theater vocal ensemble performances, as well as some small ensemble and solo performances in the spring.





## Science - Course Descriptions

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### Living Environment

*4310 Grades 9,10*

*1 credit – Life Science*

This course is an introductory study of the living world. Topics covered include classification of living things, life activities, cell structure and function, biochemistry, genetics, plants, animals, ecology and evolution. Laboratory work, including written lab reports, is required. This course has double periods that alternate with a single period class. The final assessment for this course is the New York State Regents exam

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### Earth Science – Physical Setting

*4309 Grades 9,10*

*1 credit – Physical Science*

★ **Recommended: Course credit for Living Environment**

This course includes the study of three general areas: Astronomy, the study of the sun, moon and planets; Meteorology, the mechanics, description and prediction of weather and climates; and Geology, the study of Earth materials, their formation, movements, and history. Written lab reports are required. This course has double periods that alternate with a single period class. The final assessment for this course is the New York State Regents exam.

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### Honors Earth Science – Physical Setting

*4409 Grade 9*

*1 credit – Physical Science*

★ **Recommended: Course average of at least 85 in Living Environment and score of at least 85 on Regents exam in Living Environment.**



This rigorous course is designed for highly motivated, science-oriented students with both the interest and potential to major in science in college. In addition to meeting all requirements for the Physical Setting – Earth Science course, this fast-paced course will provide a broader and more in-depth study of Astronomy, Meteorology, and Geology. This course has double periods that alternate with a single period class. The final assessment for this course is the New York State Regents exam.

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### Chemistry – Physical Setting

*4311 Grades 10,11,12*

*1 credit – Physical Science*

★ **Recommended: Grade of at least 70 on the Earth Science Regents Exam. Grade of at least 70 on the Integrated Algebra and Geometry Common Core Exams. Credit or concurrent enrollment in Algebra 2 or Applied Algebra 2.**

This course deals with both the theoretical foundations of chemistry and its many applications to everyday life. Topics include matter and energy, phases of matter, atomic structure, nuclear chemistry, the periodic table, bonding, kinetics and equilibrium, acids and bases, electrochemistry, and organic chemistry. Students must have a working knowledge of ratios, proportions and algebra along with the ability to express themselves in writing. Skills to be developed during the course include making connections between concepts and everyday life, problem solving, characterizing concepts and ideas in written form, and carrying out laboratory procedures. Students will be actively participating in inquiry based labs and completing written lab reports. Double periods alternate with single period classes. The final assessment for this course is the New York State Regents exam.





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## Honors Chemistry – Physical Setting

**4411** Grades 10,11,12

**1 credit – Physical Science**

★ **Recommended: Grade of at least 85 on Earth Science Regents Exam AND grade of at least 85 in Geometry AND credit for or concurrent enrollment in Algebra 2.**



This course is intended as a college and AP preparatory class. This course includes all requirements for the Physical Setting: Chemistry course plus additional topics, advanced problem solving, and higher level mathematical skills. Students must have a good working knowledge of ratios, algebra, unit conversions, scientific notation, and logarithms. In addition, students must have the ability to communicate scientific concepts in written form. Students will be required to design and perform laboratory experiments and complete written lab reports. Double periods alternate with single period classes. The final assessment for this course is the New York State Regents Exam.

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## Physics – Physical Setting

**4312** Grades 10,11,12

**1 credit – Physical Science**

★ **Recommended: Regents credit for Living Environment and a grade of at least 70 on both of the Regents Earth Science and Chemistry exams. Credit in Algebra 2 or Applied Algebra 2.**

This course is designed for students with an interest in physics and engineering and a very good understanding of math. This course focuses on mathematical applications and problem solving of physics phenomena. A solid foundation in algebra and trigonometry is critical for success in this class. Physics is for students with a strong work ethic and an interest in engineering and science. Topics covered include Mechanics, Energy, Electricity, Magnetism, Waves and Modern Physics including the Standard Model. Satisfactory completion of laboratory work and written reports are required. This course is highly recommended for students enrolled in Project Lead the Way looking to pursue a career in engineering. Double periods alternate with single period classes. The final assessment for this course is the New York State Regents exam.



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## Honors Physics – Physical Setting

**4323** Grades 11,12

**1 credit – Physical Science**

★ **Recommended: Regents credit for Living Environment and a grade of at least 80 on both the Regents Earth Science and Chemistry exams. Credit in Algebra 2 or Applied Algebra 2**



This course is intended to enrich a student's study of physics beyond the Regents syllabus. This course is designed for students with an interest in physics and engineering and a very good understanding of math. This course focuses on mathematical applications and problem solving of physics phenomena. A solid foundation in algebra and trigonometry is critical for success in this class. Physics is for students with a strong work ethic and an interest in engineering and science. Topics covered include Mechanics, Energy, Electricity, Magnetism, Waves and Modern Physics including the Standard Model. Satisfactory completion of laboratory work and written reports are required. This course is highly recommended for students enrolled in Project Lead the Way looking to pursue a career in engineering. Double periods alternate with single period classes. The final assessment for this course is the New York State Regents exam.





## AP Biology

**4410** Grades 11,12

★ **Recommended: Regents credit for Living Environment and credit for Regents or Honors Chemistry.**

**1 credit – Life Science**



Advanced Placement Biology is a college level course designed for students with an interest in a college degree in biology or a biology related field. Topics that are covered are Cells, Heredity, Molecular Genetics, Evolution, Diversity of Organisms, Structure and Function of Plants and Animals and Ecology. Students will participate in college level labs exploring such areas as diffusion and osmosis, gel electrophoresis, genetics, animal behavior and photosynthesis. This course includes a summer reading assignment to review some basic concepts learned in Living Environment. Students are expected to take the AP exam in May. Double periods alternate with single period classes.

## AP/ Advanced Studies Chemistry

**4511** Grades 11,12

★ **Recommended: Final average of 85% or better in Honors Chemistry or 90% or better in Regents Chemistry.**

**1 credit – Physical Science**



↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**CH180/181 University Chemistry I w/Lab, CH182/183 University Chemistry II w/Lab (3 credits)**



This course is designed for students with an interest and ability in chemistry, whether they are science majors wishing to gain a college-level experience, or non science majors hoping to fulfill their college science credit. Students can choose to earn AP Exam credit through the College Board or college transfer credit through SUNY Erie's Advanced Studies Program. Students will extend their knowledge and skills in various areas of chemistry explored in their previous chemistry course. The class consists of notes taken from video lectures at home, partner practice, daily classwork and extensive lab procedures performed in class. Tests include topics from two chapters and consist of AP -style multiple choice and free response questions. A project involving the topics of Electronic Structure and the Periodic Table will be assigned over the summer and tested on the second week of school. Double periods alternate with single period classes.

## AP Computer Science A

**3414** Grades 11, 12

★ **Suggested Preparation: Successful completion of AP Computer Science Principles (Technology Department)**

**1 credit**



AP Computer Science A is designed to be an introductory college-level course in computer science. It emphasizes object-oriented programming methodology with an emphasis on problem solving and algorithm development. The coursework will include the following topics: Primitive Types, Using Objectives, Boolean Expressions and If Statements, Iteration, Writing Classes, Array (List, 2D), Inheritance and Recursion. Current offerings of the AP Computer Science A Exam require the use of Java (those sections of the exam that require the reading or writing of actual programs), and therefore the AP Computer Science A course focuses on Java for coding. The course is based on numerous problem solving exercises, labs, and case studies, which require students to design and implement Java classes. The course requires 40-50 hours of hands-on work in a computer lab.



## AP Environmental Science

**4512** *Grades 10,11,12*

**1 credit – Physical Science**

**★ Recommended: Regents credit for Living Environment, Earth Science, AND credit for OR concurrent enrollment in Regents or Honors Chemistry**



Advanced Placement Environmental Science is designed for students with an interest in gaining experience in a college-level science class during high school, or for students with a desire for in-depth study of our natural world, how humans impact our world, and ways we may reduce our impact on our planet. Topics covered in this course include local and unique ecosystem studies, human and animal population investigations, land and water use, energy and resource consumption, pollution in its various forms, and global climate change. The class format consists of lecture and discussion, and a robust field investigation component involving the collection and analysis of environmental data. In addition, extensive reading, writing, and practice is expected outside of class. Students are expected to take the AP Exam with the opportunity to earn college credit for the course. Double period labs alternate with single class periods.

## AP Physics C

**4333** *Grades 11,12*

**1 credit – Physical Science**

**★ Recommended: Course credit in Honors Physics (Regents Physics by teacher recommendation)**



This course is designed for students who desire a college degree in engineering, mathematics, physics or related scientific field, or for those who plan to enter highly competitive college academic programs. Students enrolled in the Project Lead the Way program are highly encouraged to take this course. AP Physics C will engage students in studies of Newtonian Mechanics which correspond to a first year, calculus-based physics course designed for scientists and engineers. Along with knowledge of physics concepts, the main spirit of this course is the development and practice of mathematical application and problem-solving skills. Solid foundations in algebra and trigonometry are essential; the needed calculus tools will be explored as part of the curriculum. Topics covered in this course include vector and graphical analysis, kinematics, dynamics, work & energy, momentum, circular & rotational motion, oscillations, and gravitation. The laboratory section of this course is designed to engage students in the investigation of scientific phenomena so as to develop sophisticated models and understandings of the physical world. This course includes independent summer studies to review physics concepts which will be assessed during the first week of school. Students are expected to take the AP Exam and may be able to earn college credit for the course. Double period labs alternate with single class periods.



## Honors – Principles of Biomedical Sciences (Project Lead the Way)

**9160** *Grades 10,11,12*

**1 credit**

**★ Recommended: Credit for Living Environment and Algebra**

In this course, students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing, and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems. Summer project to examine fundamental concepts which will be assessed at the beginning of the school year. Students are expected to take the AP Exam with the opportunity to earn college credit for the course.





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## Astronomy

*4015 Grades 10,11,12*

*1 credit – Physical Science*

★ Recommended: Regents exam credit for Physical Setting – Earth Science and course credit in two science courses (Regents level or higher).

This is a basic course studying one of the oldest sciences. History and the tools of astronomy will be studied. Extensive examination of the solar system, including information received from our most recent probes, orbiters, and landers. Evolution of stars, galaxies, and deep space will be covered. History and current status of the space program as well as the future of space will be thoroughly examined. Math concepts are not emphasized and will be developed as needed. It meets for one period every day. The final assessment for this course is written by the instructor.

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## General Anatomy and Physiology

*4011 Grades 11,12*

*1 credit – Life Science*

★ Recommended: Regents exam credit for Living Environment and course credit for Living Environment and Physical Setting – Earth Science

This course involves an in-depth study of the structure and function of the human body. Topics include integumentary, skeletal, muscular and nervous systems and current topics in medicine/Allied health. It meets for one period every day. The final assessment for this course is written by the instructor.

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## Meteorology

*4025 Grades 10,11,12*

*1 credit – Physical Science*

★ Recommended: Regents exam credit for Physical Setting – Earth Science and course credit in two science courses (Regents level or higher).

Do you want to learn more about the weather? Join us for a year-long adventure in the science of meteorology. Outdoor and indoor experiments supplement the topics studied in this course including: lake-effect snow, tornadoes, hurricanes, weather forecasting, severe weather and climate change. This class will meet for one period each day. The final assessment for this course is written by the instructor.

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## Oceanography

*4577 Grades 10,11,12*

*1 credit – Physical Science*

★ Recommended: Regents exam credit for one science course and credit for Living Environment and Physical Setting - Earth Science

This course is designed to develop an understanding of the fundamentals of Earth's Oceans. Oceans cover three quarters of Earth's surface. The impact of ocean environments on the atmosphere and land areas of Earth is tremendous. Topics in this course include but are not limited to the importance of coral reefs; marine animals and their habitats; causes and effects of ocean currents; exploration of oceans including remote sensing and personal exploration; the nature of the seafloor, and the effects human activities have on the oceans. Lab activities will be included. It meets for one period every day. The final assessment for this course is written by the instructor.



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### Science in the Media / Forensics

*4578 Grades 10,11,12*

*1 credit – Physical Science*

★ Recommended: Regents exam credit for one science course

This course covers both biology and principles of physics as well as an extensive Forensic Science unit. Several science fiction films will be viewed and critiqued as to the authenticity of the science portrayed. Students will have to complete several independent studies of commercials, films, or television shows, as well as individual scientific experiments. A research paper will also be required. The Forensic portion will include the study of crime scene investigation, evidence collection and analysis, case studies and crime processing techniques. Blood spatter, fingerprinting, and DNA analysis will be included in a laboratory setting. This class meets for one period every day. The final assessment for the course is written by the instructor.



## Social Studies Overview

The Social Studies Department at Lancaster High School is proud to provide our motivated students with the opportunity to earn the equivalent of at least 12 college credits upon completion of all AP courses offered at LHS.

## Social Studies - Course Descriptions

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### Global History I

2309 Grade 9

1 credit

Global Studies I provides for a chronological study of the world from prehistoric times to approximately 1750. It emphasizes physical settings, cultural development and interdependence. The final is a school-generated exam. The second half of this course, Global Studies II, continues in Grade 10, concluding with a State Regents exam, the passing of which is required for graduation.

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### AP World History 10

2510 Grade 10

1 credit

★ **Recommended: Global I average of 90% and recommendation of Global I teacher**

AP World History is a college level course that extends over two years. This course develops a greater understanding of the evolution of global processes and the contacts in interaction with different types of human societies from the earliest human societies to the present. AP World History is designed for college bound students who are highly motivated in Social Studies. Students should have high academic standing and exhibit strong reading, writing and comprehension skills. College level readings, major written assignments and projects will all be emphasized. This course prepares students for the AP World History Exam that will be offered in the spring. Students will also be required to take the New York State Regents Exam for Global History and Geography that will be given in June during exam week.



### Global History II

2310 Grade 10

1 credit

A chronological study of the units of Global History which include the Middle East, Latin America, Africa, South/Southeast Asia, Western Europe, Russia/Eastern Europe, China and Japan. Global History 10 will examine the period from 1750 to the present. Topics within this time period will include physical and historical setting; dynamics of change; contemporary nations and cultures; economic development; and the areas within the global context. The course will culminate with the New York State Comprehensive Regents exam in June.

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### AP United States History

2411 Grades 11, 12

1 credit

★ **Recommended: Global II average of 90% and recommendation from Global teacher.**

This course is for highly motivated and dedicated students and will make demands on them similar to those of an introductory college course. The history of the United States is presented in chronological fashion with particular attention paid to significance and varying interpretation of events. Students will use a college level text and learn study and research skills necessary for success in college. AP exam given in May and the Regents exam in June.





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## United States History and Government

2311 Grade 11

1 credit

A chronological survey starting with the development of the British colonies in America and leading up to the present. Emphasis is placed on the structure of the American government, economic development after the Civil War, and international relations. Regents exam is taken in June.

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## AP American Government and Politics

2026 Grade 12

½ credit

★ **Recommended: Regents or AP American History and/or teacher recommendation**



American Government & Politics is designed for the highly motivated student and is the equivalent of a college entry level course. College level textbooks, readings and resources will be used. The course replaces the state mandated Participation in Government course normally required for graduation. This course focuses on a variety of current topics in U.S. government. They include changing American demographics, voter participation, the media, political parties, interest groups & PAC's, the powers designated to each branch of government, the bureaucracy, the constitution, federalism and civil rights. The AP exam is offered for this course in May. A school-prepared final exam will be given in January.

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## AP Macroeconomics

2027 Grade 12

½ credit

★ **Recommended: Regents or AP American History and/or teacher recommendation**



Macroeconomics is designed for the highly motivated student and is equivalent to a college level introductory course. College level textbooks, readings and resources will be used. This special honors program replaces the state mandated Economics course normally required for graduation. The course analyzes changes in aggregate supply and demand, the role of government in the economy, and the impact of foreign trade. Outside research and class presentations are required. AP exam offered in in May, and school-prepared exam is given at the end of the semester.

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## Economics

2023 Grade 12

½ credit

This one-semester course in micro- and macro-economics provides an understanding of the principles of economics and how they apply to various elements of the economy, including consumers, business, labor and the government. Comparisons of competing economic systems and major components of the global economy will be made. In addition, students will compete with other schools in a stock market simulation. A local final exam is given at the end of the course. This course is a graduation requirement per New York State.

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## Participation in Government

2012 Grade 12

½ credit

Focus is current national and international problems affecting the United States. Discussion is directed toward conflicting opinions on these issues and possible resolution of disagreement. Much emphasis on daily current events. Reports required on daily news topics and also broader issues based on media center research. Final exam is a school exam.





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### AP Psychology

*2029 Grades 11,12*

*1 credit*

★ Recommended: Social Studies teacher recommendation

The course work is rigorous, with high expectations regarding student commitment and motivation. Students who have a history of attendance issues are discouraged from registering for this course. Students will be required to master psychology concepts and vocabulary terms. Coursework includes outside reading from the college level textbook, upper-level writing, and projects with deadlines, which will count as test grades. Enrichment activities include guest speakers, debates, videos and presentations. Students will also be given the opportunity to earn college credit in May with the AP exam.



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### Criminal Law

*2030 Grades 11,12*

*½ credit*

This course offers an examination of causes, effects, and possible solutions to crime in the United States. Debates, guest speakers, a mock trial, and a field trip are used to offer real-world examples of the problems facing the criminal justice system and society in America today.



## Leadership in Action

*1416 Grade 12*

*1 credit*

This one-credit course is project-based, with students utilizing a project-planning model to make a positive difference in the school and community. Students will exhibit responsibility, perseverance, respect and integrity while working as teams to set goals, design timelines, write proposals, create publicity, evaluate outcomes and write final reports. Leadership in Action students work in teams and complete one major project per quarter. Examples of past projects include:

- Lancaster-Depew Week and Spirit Week activities such as the Bonfire, Motorcade, Spirit Assemblies, Powder Puff Game, Homecoming Dance, Spirit Bowl, Mr. Lancaster, Building Decorations, etc.
- Social activities such as the Courtyard Dance, Freshman Mixer, Spring Courtyard Dance, Prom, Homecoming, etc.
- Holiday projects such as Jingle Links, Cookie Marathon, Coloring Contest, Holiday Food Drive, Santa Grams, Christmas Tree Contest, Building Decorations, etc.
- Senior Class projects such as Red Cross Blood Drives, Senior Mural, Senior Dinner Dance, Senior Apparel Sale, Senior Day, Senior Recognition Program, etc.
- Community service projects such as Group Home Socials, Food Drives, US Troop Support Program, Project Clean Your Locker, Lancaster Youth Bureau Holiday Distribution, etc.
- School service projects such as Freshman Orientation, 8<sup>th</sup> Grade Information Night, Recycling, and Appreciation Luncheons for various LCSD employee groups, Class Mural Revitalization, SOAR, etc.

Students must complete assignments outside of class time as a component of their quarterly grade. During each quarter, students must complete 15 school and 10 community service hours.

### *Goals of the Course*

- To further develop and enhance your leadership skills
- To learn and grow through experience
- To foster the development of life-long community servants
- To help you discover your passion
- To make a positive impact on your school and community
- To successfully develop projects in a small group setting
- To understand and utilize a Project Planning Model
- To help you practice creative problem solving methods
- To give you the opportunity to work with different individuals in a small group
- To cultivate your communication and listening skills
- To carry on traditional LHS events/programs
- To develop and institute new programs which meet the needs of LHS students, our school, and or community.

Over the years the Leadership in Action class has become a very active and high profile class, but it should be noted that it also places students in **high-stress** situations that demand much time and effort as well as constant commitment. This course will be rewarding to those who enjoy a mental, emotional and physical challenge. It may be too stressful for those students who would like to enjoy a relaxing senior year.



**Follow our Twitter page @LHSNYtech**

Take charge of your future with the successful completion of a CTE track in technology.

Some technology courses are offered every other year, please check the descriptions to see if your favorite course is available next year.

## The Career Path Road Map

### Trade/CTE (Hands on Focus)

- Drawing and Design for Production (Tech or Engineering)
- Home Repair and Maintenance I - ½ year
- Home Repair and Maintenance II – ½ year
- Design and Fabrication Lab – ½ year
- Basic Electricity and Electronics – ½ year
- Architectural Drafting – ½ year
- 3D Architectural Design – ½ year

### Trade/CTE (Computer Focus)

- Drawing and Design for Production (Tech or Engineering)
- Computer Graphics - ½ year
- Computer Animation – ½ year
- Media Productions
- Computer Science Engineering (Honors)
- Basic Electricity and Electronics – ½ year
- Architectural Drafting – ½ year
- 3D Architectural Design – ½ year

### Project Lead the Way (Honors)



- Gr 09: Drawing and Design for Production (DDP)
- Gr 10: Computer Science Essentials ½ year
- Gr 10: Principles of Engineering (POE)
- Gr 10: AP Computer Science Principles (APCSP)
- Gr 11: Digital Electronics (DE)
- Gr 11: Computer Integrated Manufacturing (CIM)
- Gr 12: Engineering Design and Development

### Manufacturing & Skilled Trades Academy



- Gr 10: Trade Apprentice
- Gr 11: Trade Journeyman
- Gr 11: Advanced Manufacturing
- Gr 11: Construction Drawings & Modeling
- Gr 12: Trades Senior Project I
- Gr 12: Trades Senior Project II



## *Trade / CTE Technology - Course Descriptions*

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### Home Repair and Maintenance I

*9115 (Fall) Grades 9, 10, 11, 12*

*½ credit*

Learn how construction is done. A variety of hand and power tools will be used to complete laboratory activities. The student will also have an opportunity to become familiar with the various materials and fasteners used in home repair and maintenance. Various systems in the home will also be studied: heating, water, electrical, security, sound, etc. Students can develop entry-level skills for future employment in the construction industry.

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### Home Repair and Maintenance II

*9225 (Spring) Grades 9, 10, 11, 12*

*½ credit*

This is a hands-on course covering residential structures. Students will learn basics in carpentry, masonry, plumbing and electrical skills used to build a residential structure. Maintenance and repair of various systems will be stressed. Local building codes and new materials will be investigated. Students can develop entry-level skills for future employment in the construction industry.

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### Basic Electricity / Electronics

*9110 Grades 10, 11, 12*

*½ credit*

This course is designed to introduce students to the elements of electricity and electronics. This course offers hands-on experience in building various projects, house wiring, and Basic Electricity/Electronics using circuit boards. This offers an overview of the largest growing field today.

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### Design and Prototyping Lab (DPL)

*9113 Grades 10,11,12*

*½ credit*

★Highly Recommended: All PLTW students should take this course to enhance their program experience.

★This is not an official PLTW course

Fabrication Studio is hands-on experience in designing and manufacturing a product. Students will work as a team to design a product and organize all of the production needs from materials needed to processing tools and machines. Students may be exposed to cutting edge production methods like CNC Machining, Laser Cutting, and 3D Printing.

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### Architectural Drafting and Design

*9177 Fall Grades 9, 10, 11, 12*

*½ credit*

This course will introduce students to the basic elements of the Architectural profession and the work of an Architect. Students will be introduced to drafting Architectural plans, such as site plans, floor plans, front elevations, and foundation plans. We will also focus on construction techniques and terminology used to create a building and standards used in the industry. Architectural Drafting & Design is a project-based course that involves drawing and model building. This course prepares students for college courses in the areas of architecture, interior design, structural/civil engineering, and drafting.



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### 3D Architectural Design

9174 Spring Grades 9, 10, 11, 12

½ credit

★ **Recommendation: Architectural Drafting**

This course will build upon the basic elements learned in Architectural Drafting by introducing cutting edge 3-Dimensional software that will be used to create architectural structures. Students will produce computer-generated drawing sheets that contain items such as floor plans, elevations, schedules, and 3D realistic renderings. We will utilize *Autodesk Revit* software.

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### Computer Graphics

9127 Fall Grades 9, 10, 11, 12

½ credit

Interested in creating images for a game or internet site? This course is your starting place! Learn the CGI basics of Adobe Photoshop and Illustrator while getting hands on experience using scanner applications, image correction, and illustration layout. Students will use a variety of Adobe software programs to develop layouts which are used in the CGI industry today.

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### Computer Animation

9128 Spring Grades 9, 10, 11, 12

½ credit

Make your images move! The basics of cell frame animation, movement in a 3-D space, adding sound to a project, recording and editing your own audio will be taught. Use your Multimedia projects for a college application, or you can use your new knowledge to create great presentations for your other classes. Adobe Photoshop, Adobe After Effects, Audacity, Adobe Audition and other CGI industry standard programs will be used.

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### Media Productions

9131 Grades 10, 11, 12

1 credit

★ **Required: Computer Graphics, Computer Animation, or teacher permission**

Making Movies! Media Productions will show you what it takes to create various media for the Internet, a business, or for your own enjoyment. Included will be the study of the design elements (scenery, sound and lighting), Green/Blue screen work, and enhancing the video editing techniques learned in Computer Animation (including special effects!). The Adobe Creative Suite will be used throughout the course and you'll create a DVD of your projects for future use.

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### Design and Drawing for Production (DDP) – Tech (3D Modeling Approach)

9175 Grades 9, 10, 11, 12

1 credit

★ **Course will satisfy the 1 unit of Regents credit for Art/Music**

DDP Tech is an introductory course, focusing on utilizing the design process to solve technical problems with 2 dimensional drawing techniques and 3 dimensional modeling capabilities. DDP Tech has been designed to replace the traditional CAD class, and offers the skills developed in the Engineering DDP course for students interested in 3-D modeling, but not necessarily in the pre-engineering program (PLTW). Upon successful completion of Tech DDP (this course), an interested and competent student, with the instructor's permission, may apply for the Project Lead the Way Academy Project Lead the Way Course Descriptions.



## Trades Electives

**▲ Note:** You do not need to be a member of the Trades Academy to take Academy classes, however without taking five courses in Technology you may not qualify for an Advanced Regents diploma. Please talk to your counselor.

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### Trade Apprentice.....1 Credit

#### 9103 Grade 10 Semester 1

½ credit

A foundation class for the Trades Academy: This Apprentice course introduces the concepts and terminology of site planning, foundation elements, wall and ceiling structure, roofing styles, through various projects. This class introduces pattern development for sheet metal work; students will then create various sheet metal projects using industry standard tools.

*\*Skills Covered:* Various Materials Processing, Sheet Metal Fabrication, Basic Construction Concepts

*\*\*Sheet metal projects have included trays, cell phone holder, wall hanging shelf*

#### 9101 Grade 10 Semester 2

½ credit

A foundation class for the Trades Academy: This Apprentice course is a survey course that introduces the hands-on skills for a career in trades using carpentry tools, planning, implementing and execution of a project, and beginning concepts of manufacturing. Students will create various projects using industry standards.

*\*Skills Covered:* Various Materials Processing, Manufacturing Concepts

*\*\* Example project: students each create individual coat rack*

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### Trade Journeyman.....1 Credit

#### 9104 Grade 11 Semester 1

½ credit

Journeyman explores the manufacturing process used in the creating and development of products, either for commercial or industrial use. These concepts are further developed in the CNC Machining & Manufacturing class. The students will also learn about plumbing concepts for both residential and commercial buildings. Projects in both copper and PVC pipe are explored.

*\*Skills Covered:* Various Materials Processing, Plumbing, Architectural Concepts

*\*\*Example projects have included PVC toys for the Lancaster Youth Board, copper sprinkler, copper candle holder*

#### 9102 Grade 11 Semester 2

½ credit

This is a course that explores the manufacturing process more in depth from design to production. Students further their manufacturing skills integrating the design of products with moving parts.

*\*Skills Covered:* Various Materials Processing, Manufacturing Concepts, Project Management

*\*\* Example project: students each create folding step stool*

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### Trades: Construction Drawings & Modeling

#### 9106 Grade 11

½ credit

Construction Drawings & Modeling is a course that focuses on understanding drawings related to architecture and building trades, such as plumbing, electrical, and mechanical (MEP). Students will learn plan symbols, review sets of plans of Lancaster High School, and build scale models. They will work in teams and utilize tools, materials, and resources related to the trades.

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### Trades: Advanced Manufacturing

#### 9105 Grade 11

½ credit

Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities to understand manufacturing and puts the students in a position to utilize modern manufacturing processes to create projects. Students will be introduced to technologies such as Injection molding, laser cutting, 3D rapid prototyping, and CNC machining.



## Project Lead The Way Electives

**▲ Note:** You *do not need to be a member of the Project Lead The Way Academy in order to take Academy classes, however without five courses in Technology you may not qualify for an Advanced Regents diploma. Please talk to your counselor.*

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### Engineering Design and Drawing for Production (DDP) - Honors

A Solid Modeling Approach

*9162 Grades 9,10, 11, 12*

*1 credit - honors*

★Recommended: Currently maintaining an 80%+ in 8<sup>th</sup> grade Math

Note 1: Students will apply to the Engineering Academy (PLTW) during their freshman year to continue in the Program.

Note 2: Course satisfies the 1 Regents credit for Art/Music, regardless of advancing into the PLTW program.



For all students interested in the Project Lead The Way or Manufacturing and Skilled Trades Academies or any career path in Science, Technology, Engineering, or Mathematics.

Students use the engineering design process, science, and engineering principles to complete hands-on projects. You will work both individually and in teams to design solutions to a variety of problems using 3D modeling software, 3D printing technology creating drawing sheets to document their work. Software utilized: Autodesk Inventor.

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### Computer Science Essentials (CSE)

*9119 Grades 9, 10, 11, 12*

*½ credit- honors*

★Recommended: (1) For all students with a general interest in Computer programming and robotics.  
(2) Strong background in Math and Science



Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles & Computer Science A.

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### Principles of Engineering (POE)

*9172 Grades 10, 11, 12*

*1 credit- honors*

★Recommended: Honors DDP or Teacher permission from DDP Tech

★Recommended: Permanent or probationary acceptance into the PLTW program



Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.



## AP Computer Science Principles (CSP)

9129 Grades 10, 11, 12

1 credit

★**Strongly recommended:** Honors Computer Science Essentials or 1 year programming experience.

★**Recommended:** Strong background in Math and Science



Open doors in any career with computer science! CSE implements the College Board's 2013 CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. In CSE, students create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. Students collaborate to create and present solutions that can improve people's lives, and weigh the ethical and societal issues of how computing and connectivity are changing the world.

## Digital Electronics (DE)

9120 Grades 11, 12

1 credit- honors

★**Recommended:** Honors DDP and POE, can take POE or CIM concurrently

★**Recommended:** Enrolled or Passed level 2 Math

★**Recommended:** Permanent or probationary acceptance into the PLTW Academy.



From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

Possible career opportunities consist of Digital Electronics Engineers/Technicians, ranging from designing and manufacturing electrical systems to installing to repairing them. Digital electronic engineers design an assortment of electronic equipment, such as control systems, music players and global positioning systems.

## Computer Integrated Manufacturing (CIM)

9130 Grades 10, 11, 12

1 credit- honors

★**Recommended:** Honors DDP or permission from DDP Tech

★**Recommended:** Permanent or probationary acceptance into the PLTW Academy.



Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation.





## World Languages (WL) – Overview

Students must have two units of study and earn one high school credit in World Languages by the completion of grade 9. This meets the minimum requirement for NYS Checkpoint A (Level I) proficiency. To earn a Regents Diploma with Advanced Designation, students must complete Checkpoint B (Levels II & III) of the same language and pass the Comprehensive Exam. The emphasis of beginning courses is on communication in the context of the target language's culture. The student will be able to comprehend simple statements and questions, understand short simple written material and create simple sentences and phrases with basic vocabulary.

### NYS Seal of Biliteracy

New York State Seal of Biliteracy ([NYSSB](#)) candidates should continue foreign language study with Level 4/4H (11th) and Level 5/AP (12th). Candidates should also continue ELA studies with AP English (11 & 12th).



### **NEW ELECTIVE COURSES!**

The WL Department is very pleased to announce our new electives designed for all students no matter what your future career choices may be. Be sure to check out Cultural Awareness and Competency, World Tourism, and Beginning Languages.

## World Languages (WL) – Course Descriptions

### World Tourism (World Language Connection Program)

**5026 Grade 9, 10, 11, 12**

**½ credit**

Does world travel ever interest you but seem too overwhelming to consider? Then you should try this course. It will provide real world skills for all aspects of the tourism industry including air and land transportation, cruises, all-inclusive resorts, various accommodations, tour vs travel terminology, world geography, types of travelers, most popular travel destinations, and much more. The world's most stunning and even mysterious places will be explored through Google Maps, breath-taking videos, and other engaging experiences. Travel safety concerns and precautions will also be addressed. Project-based learning, daily conversations, low-anxiety games, and other thoughtful student-centered activities will be used to help students build their knowledge of the world as well as inspire their *Wanderlust*. Toward the conclusion of this 20-week course, students will participate in The Amazing Race (Europe) as a friendly and fun competition. Don't delay registering as your journey around the world is at your fingertips. This course will end in a final project instead of an exam. This course is taught in English.

### Cultural Awareness & Competency (World Language Connections Program)

**5027 Grade 9, 10, 11, 12**

**½ credit**

View the world's cultures through a different and unique lens! Understand the phenomena that occur when cultures come into contact! This course is for students who truly wish to examine similarities and differences among the world's cultures, build relationships, empathize and establish trust with people from diverse backgrounds. Throughout this 20-week course, students will develop a thorough understanding of the concept of culture and cultural diversity by examining language, education and work philosophies, religion, history, symbols, traditions, family values, foods, physical environment, and societal influences. Students will learn how to successfully interpret the behaviors of and interact with someone from a different culture as well as increased awareness of their own cultural backgrounds. Daily classroom activities will be fun, lively, reflective, and engaging. This course is taught in English and concludes with a final project.

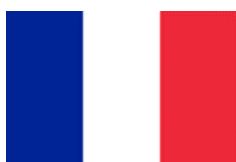


## Beginning Languages (World Language Connection Program)

\*\*\*\* *Grades 9, 10, 11, 12*

*1 credit*

Foreign Languages are FUN! Your résumé is going to look SWEET (no matter what your career choice becomes) when you add another foreign language to it! This beginning World Language course is conducted in French and Spanish. It is designed to equip the learner with the foundational skills of a foreign language all within the framework of a fun exploratory approach. Students will join with other motivated peers to conduct conversational role-playing about a variety of topics (ex. leisure activities, ethnic foods, travel, shopping, technology, weather, etc.), design their own unit of learning, create maps, calendars, recipes...! You'll be excited by the rewarding nature of this course. And you will be ready for Level 2 French or Spanish after taking this course. Good attendance and your participation in class is essential. This course will end in a final project instead of an exam.



## AP French Language and Culture / Hilbert College Credit Option

*5051 Grade 12*

*1 credit - NYSSB*

↔ **DUAL ENROLLMENT OPTION AVAILABLE**

**FR201 Intermediate French (3 credit hours)**



★ Advanced Placement which follows the French IV level course

★ Recommended: Written recommendation by French Level IV teacher, average of 90+ in French, completion of summer assignment due on the first day of school

At the end of the course the students will have the option to take the AP French Language and Culture exam and/or the Hilbert College exam to earn college credits. (Hilbert exam is \$250, AP exam is \$94). The AP French course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. To best facilitate the study of language and culture, the course is taught almost exclusively in French.

The AP French Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., movies, books, music, news, conventions, institutions), practices (patterns of social interactions within a culture), and perspectives (values, attitudes, and assumptions). The students will attain a higher level of fluency in oral communication. Students may potentially earn up to six college credits after successfully taking both exams.



### Honors French IV

*5062 Grades 11, 12*

*1 credit - NYSSB*

★ Recommended: Average of 90+ in French III, Regent's exam score of 85+

⊗ Note: This course is subject to cancellation based on number of registrants.



This course offers the student an opportunity to master the French IV course content. The student will be expected to use the language in all four skill areas while expanding upon basic thoughts, polishing pronunciation, and distinguishing between regional accents. The final assessment is determined by the teacher. Students will receive weighted credit for this course.

### Honors French III

*5049 Grades 10, 11, 12*

*1 credit*

⊗ Note: This course is subject to cancellation based on number of registrants.



This course offers the student an opportunity to master the French III materials at an accelerated pace. Emphasis is placed on the four major skills of language learning: listening, speaking, reading and writing and the grammar and vocabulary necessary to acquire these skills. In addition, the student will complete independent work including supplementary readings, compositions, and vocabulary expansion. Spontaneous conversational activities are an integral part of this course. This course focuses on increased verbal communication. Final assessment is a locally developed, state-credit exam plus project. Completed summer assignment is due on the first day of school. Students can earn a Regents Diploma with Advanced Designation by successfully completing the final exam in French III. Students will receive weighted credit for this course.

### French III

*5033 Grades 10,11,12*

*1 credit*

This course completes Checkpoint B of the NYS syllabus and prepares students for both a locally developed, state-credit exam and for upper-level study. There is increased emphasis placed on the grammar and writing skills necessary for success in French in addition to greater development of listening, speaking, and conversational skills. Students can earn a Regents Diploma with Advanced Designation by successfully completing the final exam in French III.

### French II

*5031 Grades 9, 10, 11, 12*

*1 credit*

French II builds upon the language foundation learned in French A2 or Beginning French 1. Throughout the course of the year, students will expand upon their ability to speak, listen, read, and write in French at an intermediate low level. This course covers half of Checkpoint B of the NYS syllabus. Local exam in June.



## AP Spanish / Hilbert College Credit Option

*5047 Grade 12*

↔ DUAL ENROLLMENT OPTION AVAILABLE

**SP201 Intermediate French (3 credit hours)**

★ Advanced Placement which follows the Spanish IV level course

★ **Recommended:** Written recommendation by Spanish Level IV teacher, average of 90+ in Spanish, completion of summer assignment due on first day of school.

*1 credit - NYSSB*



At the end of the course the students will take the AP Spanish exam to earn college credit (Hilbert exam is \$250, AP exam is \$94). This course is conducted almost solely in Spanish. The students are expected to comprehend Spanish spoken at a natural speed and to express themselves in the language. The students will explore in depth the fine points of Spanish grammar as well as review concepts that they have already studied. Their vocabulary and reading skills will be reinforced through the study of authentic newspaper, internet and magazine articles. The students will study literary language and themes through the reading of short stories. Listening comprehension will be reinforced with authentic recordings and videos. The students will attain a higher level of fluency in oral communication. Students may potentially earn up to six college credits after successfully taking both exams.

## Spanish V

*5046 Grade 12*

*1 credit - NYSSB*

Do you want to continue learning Spanish without the pressure of a state exam? Wouldn't you like to pretend that you are in a Spanish café with friends eating "tapas" and chatting? Spanish V is for those students who wish to continue the study of the Spanish language without receiving college credit while enhancing their Spanish knowledge to be able to enter a college level course after high school graduation. This course will develop higher-level vocabulary and grammar through explorations of culture including art, film, history and literature with projects designed to help interpretive, interpersonal and presentational skills. There will be a local exam at the end of the course.



## Honors Spanish IV

*5054 Grades 11, 12*

*1 credit - NYSSB*

⊗ Required: Average of 90+ in Spanish III, Regents exam score of 85+

⊗ Note: This course is subject to cancellation based on number of registrants.



This course offers the student an opportunity to master the Spanish IV course content, but the student will be expected to use the language in all four skill areas while expanding upon basic thoughts, polishing pronunciation, and distinguishing between regional accents. The final assessment is determined by the teacher, but typically involves a portfolio or other cumulative project in addition to a final exam. Students will receive weighted credit for this course.



## Spanish IV

*5042 Grades 11, 12*

*1 credit - NYSSB*

This is a post-Regents course for those students interested in continuing with the study of the language by putting to use those skills learned in levels I through III. There are projects in all four language skills in addition to further study of cultural topics. Additional grammar and vocabulary are added and reviewed as needed to each area of investigation. Specific subject areas and content are determined in September based upon the interests and needs of the students involved. There is a local exam in June or a year-long portfolio assessment.



## Honors Spanish III

*5053 Grades 10, 11, 12*

*1 credit*

★ Recommended: Written recommendation by Spanish II teacher, average of 90+ in Spanish II

⊗ Note: This course is subject to cancellation based on number of registrants.

This course offers the student an opportunity to master the Spanish III materials at an accelerated pace. Emphasis is placed on the four major skills of language learning: listening, speaking, reading and writing and the grammar and vocabulary necessary to acquire these skills. In addition, the student will complete independent work including supplementary readings, compositions and vocabulary expansion. Spontaneous conversational activities are an integral part of this course. This course focuses on increased verbal communication. Final assessment is a locally developed, state-credit exam plus project. Completed summer assignment is due on the first day of school. Students can earn a Regents Diploma with Advanced Designation by successfully completing the Spanish III final exam. Students receive weighted credit for this course.



## Spanish III

*5043 Grades 10, 11, 12*

*1 credit*

This course completes Checkpoint B of the NYS syllabus and prepares students for both a locally developed, state-credit exam and for upper-level study. There is increased emphasis placed on the grammar and writing skills necessary for success in Spanish in addition to greater development of listening, speaking, and conversational skills. Students can earn a Regents Diploma with Advanced Designation by successfully completing the final exam in Spanish III.

## Spanish II

*5041 Grades 9, 10, 11, 12*

*1 credit*

Students begin to explore *how* the Spanish language functions as they transition from the beginning level to intermediate. Lessons are engaging, focused on making cultural comparisons, describing cultural perspectives, products and practices. Students make a huge jump this year in building their confidence in producing the language. They participate in interpretive, interpersonal, and presentational modes of learning. Daily conversations are held to improve interpersonal speaking skills. Written work is more extensive and gets polished with emphasis placed on creative thought. Students are encouraged to use their words more accurately and in the proper sequences. This course covers half of Checkpoint B of the NYS syllabus. A local exam is given in June.

## Spanish I

*5039 Grades 9, 10, 11, 12*

*1 credit*

This course combines A1–A2 Spanish and is designed for students who are beginning the study of the Spanish language. Students will work on pronunciation, listening skills, vocabulary, conversational skills and learn various aspects of the Hispanic culture. Authentic sources will be used. A locally developed, state credit exam is given to all students in June. World Language Connection Program students are encouraged to register for the Beginning Languages course instead of this one.