LONGWOOD HIGH SCHOOL

2024 – 2025

Course Guide

Table of Contents

I. Letter From Principal of the High School ..... pg 2
II. Graduation Requirements ..... pg 4
III. Counseling ..... pg 6
IV. Academies Mission Statement & Vision Statement ..... pg 11
V. Dual Enrollment & Early College ..... pg 12
VI. Advanced Placement Courses ..... pg 13
VII. College Credit Bearing Courses ..... pg 14
VIII. Programs (Academies) ..... pg 15
IX. List of Pathways within each Academy
- A. **Academy of Technology & Industry**
  1. Engineering Pathway ..... pg 16
  2. Information Technology Pathway ..... pg 17
  3. Transportation Pathway ..... pg 18
- B. **The Academy of Science & Health Services**
  1. Health Sciences & Technology Pathway ..... pg 19
  2. Agriculture, Food and Environment Pathway ..... pg 20
  3. Mathematics and Science Pathway ..... pg 21
- C. **The Academy of Humanities**
  1. Human Service Pathway ..... pg 22
  2. Law and Public Service Pathway ..... pg 23
  3. Visual and Performing Arts Pathway ..... pg 24
- D. **Academy of Global Business Leadership**
  1. Entrepreneurship, Marketing and Management Pathway ..... pg 25
  2. Finance Pathway ..... pg 26
  3. Hospitality & Tourism Pathway ..... pg 27

X. English/ ELA Courses ..... pg 28
XI. ENL Courses ..... pg 36
XII. Social Studies Courses ..... pg 38
XIII. Math Courses ..... pg 50
XIV. Science Courses ..... pg 60
XV. World Languages Courses ..... pg 73
XVI. Career and Technical Education Courses ..... pg 79
XVII. Art Courses ..... pg 97
XVIII. Family and Consumer Sciences Dept. Courses ..... pg 104
XIX. Music Department Courses ..... pg 108
XX. Physical Education/Health Courses ..... pg 110
XXI. Junior ROTC Courses ..... pg 115
XXII. Eastern Long Island Academy of Applied Technology (BOCES) ..... pg 117
XXIII. Alternate Learning Program Courses ..... pg 127
XXIV. Clubs ..... pg 132

Dear Longwood Students,

As you start to think about your future and create a high school plan for yourself, answer this question first: What are you most passionate about? Answering this question will allow you to discover your areas of interest and create personal goals. The purpose of this course guide is to help you choose the best pathway to achieve your goals.

At Longwood High School, we are dedicated to creating an environment whereby all children and adults can connect, understand, respect, learn, and grow together. Teaching and learning is a two-way street for everyone, and we ensure that a system of support is created for all children. Our goal is to create future leaders that will positively impact the Longwood community.

As you look through this course guide, please remember to align the classes to your personal goals as well as graduation requirements, college and career readiness, and your future career. Our Longwood High School Academies will provide you with the tools, skills, and knowledge necessary to either enter college or the workforce.

All freshmen and sophomore students will participate in a guided exploration and in-depth study of the myriad of careers available to them. Through instruction, field trips, guest speakers, technology resources, and Naviance, students will envision the range of college and career possibilities available to them, and connect their academic life to their long term success. They will explore and identify their interests and skillsets and create a personalized learning plan to guide their remaining years of study. All juniors and seniors will choose a course pathway aligned to their college and career goals. By graduation, students will complete their course pathway that includes a post-secondary plan; earn college credits, and/or complete industry certifications and have had the opportunity to work with local businesses. Students will graduate with the necessary skills to become college and career ready.

As you begin the course registration process for the upcoming school year, I highly recommend that you take time to review the entire contents of this course description catalog to determine which courses will appropriately align with your post-secondary goals. The decisions, choices, and actions that you make today will directly influence the options that will be available to you upon graduation from high school. If you have any questions regarding any of the information in the course guide, please do not hesitate to reach out to your guidance counselor for support. We are extremely proud of our students and we believe every graduate will be future leaders.

Sincerely,

Sam Ahmed, Ed.D.
Principal

Steps to Creating Your College and Career Plan

- Consider your strengths and interests
- Review the course offerings in the Course Guide to see what courses align with your strengths and areas of interest
- Think about how these courses fit into a four year high school plan
- Discuss options with your school counselor
- Consider your post-secondary goals
- Visit the Longwood High School web-based Naviance Program to assist you in determining your career preferences
- Take advantage of any summer programs, community service and/or internship experiences
- As early as grade nine, investigate post-secondary institutions of interest to determine if your course selections are aligned with institutional admission requirements
- Schedule a meeting with your counselor to discuss individual post-secondary goals
- Conduct a college search using the Naviance website to identify admissions' criteria as well as to familiarize yourself with your specific schools of interest
- Learn more about scholarship opportunities by searching scholarships on Naviance and by talking with your counselor
- Attend the high school college fair and events hosted by the Counseling Center throughout your high school career
- Take full advantage of all events and school resources prior to your senior year
- Remember, it's never too early to plan for the future!

New York State Minimum Graduation Requirements

Local Diploma		**Regents Diploma**		**Advanced Designation Regents Diploma**	
Content Area	Credits	Content Area	Credits	Content Area	Credits
English	4	English	4	English	4
Social Studies	4	Social Studies	4	Social Studies	4
Math	3*	Math	3*	Math	3*
Science	3*	Science	3*	Science	3*
World Languages	1	World Languages	1	World Languages	3**
Art/Music	1	Art/Music	1	Art/Music	1
Health	0.5	Health	0.5	Health	0.5
Physical Education	2	Physical Education	2	Physical Education	2
Electives credits	3.5	Electives credits	3.5	Electives credits	1.5/3.5**
Total:	**22**	**Total:**	**22**	**Total:**	**22**

* A commencement level course in technology education may be used as the third unit of credit in science or mathematics, but not both.
** Students acquiring 5 units in Art, Music, Career & Technical Education, Technology or Vocational Education may not be required to complete the two additional units of World Languages.

- A score of 65 or better is required on each Regents exam for a Regents Diploma.
- A Regents Diploma or Regents Diploma with Advanced Designation may be earned with honors by attaining an average score of at least 90 on the Regents Examinations required for the diploma.
- Students who complete all coursework and testing requirements for the Regents diploma with advanced designation, and who pass, with a score of 85 or better, three commencement level Regents examinations in mathematics, will earn a Regents diploma with advanced designation, with an annotation on the diploma that denotes mastery in mathematics. Commencement level courses include Common Core Algebra, Geometry and Algebra 2.
- Students who complete all coursework and testing requirements for the Regents diploma with advanced designation, and who pass, with a score of 85 or better, three commencement level Regents examinations in science, will earn a Regents diploma with advanced designation, with an annotation on the diploma that denotes mastery in science. Commencement level courses include Living Environment, Physical Setting/Earth Science, Physical Setting/Chemistry, and Physical Setting/Physics.
- A Regents diploma or a Regents diploma with Advanced Designation will be affixed with a technical endorsement upon completion of an approved career and technical education program.
- Special Education students who score 55-64 on required Regents exams will be eligible for a local diploma.

- Special Education students may use the compensatory option to graduate with a local diploma whereby student scores 45-54 on a required Regents exam (except ELA and Math) can be compensated by a score of 65 or above on another required Regents exam. In all cases, students must achieve a score of 55 or above on ELA and math. In addition, the students must pass the course in which he/she earned a score of 45-54 and have satisfactory attendance to be awarded a local diploma.

Required NYS Regents Exams

The following exams are required of all students:

- Comprehensive English Regents Examination
- Global History & Geography Regents Examination
- US History & Government Regents Examination
- One Science Regents Examination
- One Math Regents Examination

Students seeking a Regents Diploma with Advanced Designation need to complete the following requirements:

1. A second Science Regents Examination (one Life Science and one Physical Science)

2. Two additional Math Regents Examinations (Geometry and Algebra 2)

3. World Languages (3 Units) and FLACS B Examination

Students may also wish to utilize pathways to meet examination requirements. Please see information on multiple pathways at:

http://www.nysed.gov/curriculum-instruction/general-education-and-diploma-requirements

Counseling Program

Important Reminders for Course Selection

A student's high school academic program is the foundation for college and career preparation. Course selections are essential to each student's success in preparing for the future. Counselors will meet with students grades 9 – 11 during a designated class period in January to assist with course selection. Prior to course selections the Counseling Department recommends all students take into account the following:

- Review graduation requirements to ensure you are meeting the NYS graduation requirements, courses and exams, and on-track for graduation.
- Review the course descriptions provided in the LHS Course Guide to ensure you have meet the necessary prerequisites, prior to making your course selections.
- Choose a challenging course program that will prepare you for college as well as employment.
- Meet with your School Counselor to discuss your course selections in relation to individual areas of interest, college majors and career plans.
- Parents and students will be able to view course selections via the Parent Portal and will be notified of the current year's verification date by mail once the course selection process is complete. At that time students will have the opportunity to make adjustments to course requests.
- School Counselors make every effort to accommodate course requests, however scheduling conflicts are sometimes unavoidable.
- Students are scheduled for courses based on graduation requirements, academic performance and individual requests.
- Students enrolled in a science course with a lab or a double period science are not able to simultaneously enroll in additional science elective courses.
- Select alternative electives, in the event your first elective choice is not available.
- Course selections are tentative until final grades and summer school grades results are evaluated.
- Schedules are made available on the Parent Portal in August. If you note any errors in your schedule, make an appointment to see your School Counselor prior to the first day of school.
- Students are to attend all classes as indicated on their original schedule until changes have been completed by the Counseling Center and a new schedule has been issued.
- Students are not permitted to make schedule adjustments beyond the 10th day of the semester. If documents for medical reasons exist, students/parents may request to have a course drop reviewed by the Counseling Department Chairperson and the appropriate grade level Assistant Principal. Class level changes (e.g. AP to Honors or Honors to Regents), are not permitted after the first semester.
- BOCES students who are considering withdrawing from such programs must notify the Counseling Center BEFORE the third week of school. Failure to do so may result in an inability to reschedule the student to attend a full-day program at Longwood High School.
- NYS Special Appeals on regents may affect course placement.

Kristin Garret
Counseling Department Chairperson

IMPORTANT INFORMATION

1. It should be noted that the diploma requirements listed on the following pages are minimum requirements. Students are encouraged to take the most academically rigorous program possible for college planning purposes.
2. Students are considered to be a member of the class which graduates in June of that year. For example, if you obtain your diploma in June 2018, you are a member of the Class of 2018.
3. Seniors must carry a minimum of four (4) classes in addition to Physical Education each semester. Fifth year students will have a specifically designed program to meet their graduation needs.
4. Taking college courses for high school credit is not permitted except for the following: a senior who has no room in his/her program to fit a required course for graduation. The student may petition the principal to take a course at a local college in lieu of the required high school course. Written permission from the principal must be obtained.
5. Please be advised that every attempt will be made to meet student program requests. However, students must realize that various budgetary, enrollment, and personnel factors may prevent some courses from being offered. Requested alternate courses will be scheduled when courses are not offered or scheduling conflicts occur.
6. Students need to carefully complete all homework assignments on time. Keep a notebook in each of your classes and review the main points of each lesson daily. Use an agenda book to enter assignments. Maintain an accurate record of assignments, grades and other important information.
7. Students are encouraged to take advantage of any extra-help classes offered during and after school. Arrangements can be made by contacting the teacher.
8. Seniors may request “early release” by inputting this course request. Seniors with early release must agree to leave the building and campus, and may return only after 2 p.m. for Driver's Education, co-curricular activities and athletics. If a student cannot leave, then early release is not appropriate and will be rescinded.
9. Students and parents should check the Parent Portal regularly throughout the year to remain aware of academic progress, attendance and grades to date.

Promotion Guidelines

Grade 10

A student will be considered a tenth grader if he/she has accumulated four (4) credits toward graduation and has passed ninth grade English and social studies.

Grade 11

A student will be considered an eleventh grader if he/she has accumulated ten (10) credits toward graduation and has passed ninth and tenth grade English and social studies.

Grade 12

A student will be considered a twelfth grader if he/she is scheduled to complete ALL of his/her graduation requirements by June.

High School Administration	
Sam Ahmed, Ed. D.	Principal
Ms. Ruth Desronvil	Assistant Principal
Mr. Michael Kapfer	Assistant Principal
Ms. Barbara Merkle	Assistant Principal
	Assistant Principal
Ms Katherine Saint Louis	Assistant Principal
Mr. Jamal Walcott	Assistant Principal

Department Chairpersons	
Career and Technology Education	Jill Rumfola
Counseling Department	Kristin Garrett
English	Meghan Cronin
Languages other than English	Emilio Sosa
Mathematics	Jayson Kiang
Music/Art/Family & Consumer Sciences	Kimberly Burns
Physical Education/Health	Shawn Dillon
Science	Ivan Suarez
Social Studies	Daniel Tapia
Special Education	Karen Horn

2024 – 2025
Counselor Assignments

Grades 9 – 12	**Counselor**
Ms. Schoen	A – BOL
Mr. Del Franco	BOM – COH
Mr. O'Malley	COL – ENC
Ms. Hawkins	END – GRAZ
Mr. Gonzalez	GRE – KAO
Ms. Gerber	KAP – MARS
Ms. Mancuso	MART – MOY
Ms. Aliperti	MU – POP
Mr. Gordon	POR – SAR
Ms. Francois	SAS – TIM

Ms. Montanino	TJ – Z
Ms. Garrett	Department Chair/College and Career Counselor/Out of District

Equal Opportunity

Each student is encouraged to develop and achieve individual educational goals. The district will provide every student with equal educational opportunities regardless of race, color, creed, sex, national origin, religion, age, economic status, marital status, or disability. No student will be excluded on such basis from participating in or having access to any course offerings, student athletics, counseling services, employment assistance, extracurricular activities or other school resources.

Dr. Vaughn Denton is the designated district compliance officer, who will coordinate compliance with the nondiscrimination requirements of Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act.

Mission Statement

The mission of The Academies of Longwood High School is to empower students to be the authors, navigators and implementers of their personal college and career plan, by raising students' motivation and providing focus to the program of study that reflects their talents, aspirations and interests.

Vision Statement

The Academies of Longwood High School will provide students with the tools, 21st century skills and knowledge to be college and career ready.

Freshmen and sophomore students will participate in a guided exploration and in-depth study of the myriad of careers available to them. Through instruction, field trips, guest speakers, and the technology resource Naviance, students will envision the wide range of college and career possibilities. Students will explore and identify their interests and skillsets to develop a personalized learning plan to guide their junior and senior years of study.

Juniors and seniors will pursue an Academy Pathway comprised of courses aligned to their college and career goals.

By graduation, students will complete their course pathway that includes a post-secondary plan; earn college credits, and/or complete industry certifications and have had the opportunity to work with local businesses.

DUAL-ENROLLMENT & EARLY COLLEGE

Research demonstrates that students who engage in college level coursework while in high school are more likely to attend college and be successful while there. As a result Longwood High School has established strong partnerships with our local institutions of higher learning including Stony Brook University, Suffolk County Community College (SCCC), and Farmingdale State College to offer college level courses to our students while in high school.

Students who take Dual-Enrollment courses while at Longwood High School strengthen their preparedness for college and enhance their student portfolio when applying to college or a business. Earning college credits while in high school jump starts students' college careers, enhances their college admissions application, and minimizes time required to complete a college degree; affording more time for internships, dual majors, minors and/or study abroad. Enrollment in a Dual-Enrollment course generates an official college transcript for each student. The college credits earned can be applied towards a degree at the college or can be transferred to many other colleges and universities. Acceptance of credits for college-level courses is determined by the receiving college or university. Courses offered through the Dual-Enrollment partnerships are offered at a reduced tuition rate with no additional college fees applied.

In addition to Dual-Enrollment, Longwood High School has partnered with SCCC Summer Early College program, as well as the school year Early College Program. The Suffolk County Community College Early College Program (ECP) is an opportunity for high school juniors and seniors to earn college credits while having an experience of college life. Students enroll in college classes, interact with college faculty, staff, and other students. ECP students can earn college-level transfer credits while continuing to complete high school.

Dual Credit/AP Exams

As ***The Academies of Longwood High School*** grow, our partnerships with these institutions are essential in preparing students for college and career readiness in their area of interest. Each year, new courses are added to our list. Check with the counseling department at any time to determine the exact courses offered for Dual-Enrollment.

ADVANCED PLACEMENT COURSES

ENROLLMENT CRITERIA:

1. Some courses may require either a department chair or teacher recommendation. Please see individual AP course descriptions in the Course Guide to determine pre-requisite courses and grade requirements. Students not meeting the prerequisite or grade criteria, and who wish to appeal, must submit a letter providing a rationale as to why they believe they can be successful in a rigorous college-level course. This letter must be written by the student and be accompanied by an additional letter or endorsement written by the parent. Both letters should be submitted to the appropriate department chairperson by the first week in July. Appeals will be considered based upon mastery level completion of the AP Summer Assignment, and an 85 or better grade on the August regents Exam.
2. All AP students ***must*** complete the required AP course summer assignment. The assignment will be assessed and any student who does not complete the summer assignment satisfactorily will not be permitted to enroll in the AP course(s).
3. All students enrolled in AP courses must take the AP exam in May with no exceptions. Financial assistance is available for those who are eligible for free or reduced lunch.
4. AP Exam fees must be paid online at https://user.totalregistration.net/AP/331478. Go to room 2104 if you have any issues or concerns registering.
5. Students who do not meet the prerequisites for enrollment in certain advanced courses at the time of online course selection can be added to a wait list, if applicable. Students and parents must contact the high school Grade Reporting Office to be considered for this option. Placement on a wait list does not guarantee enrollment.

Advanced Placement Courses (AP)

AP Language and Composition
AP Literature and Composition
AP World History I
AP World History II
AP US History
AP US Government and Politics
AP European History
AP Psychology
AP Macroeconomics
AP Calculus AB
AP Calculus BC
AP Computer Science
AP Computer Science Principles
AP Statistics
AP Biology
AP Chemistry
AP Physics
AP Environmental Science
AP French Language and Culture
AP Music Theory II
AP Spanish Language and Culture
AP Spanish Literature
AP Italian Language and Culture

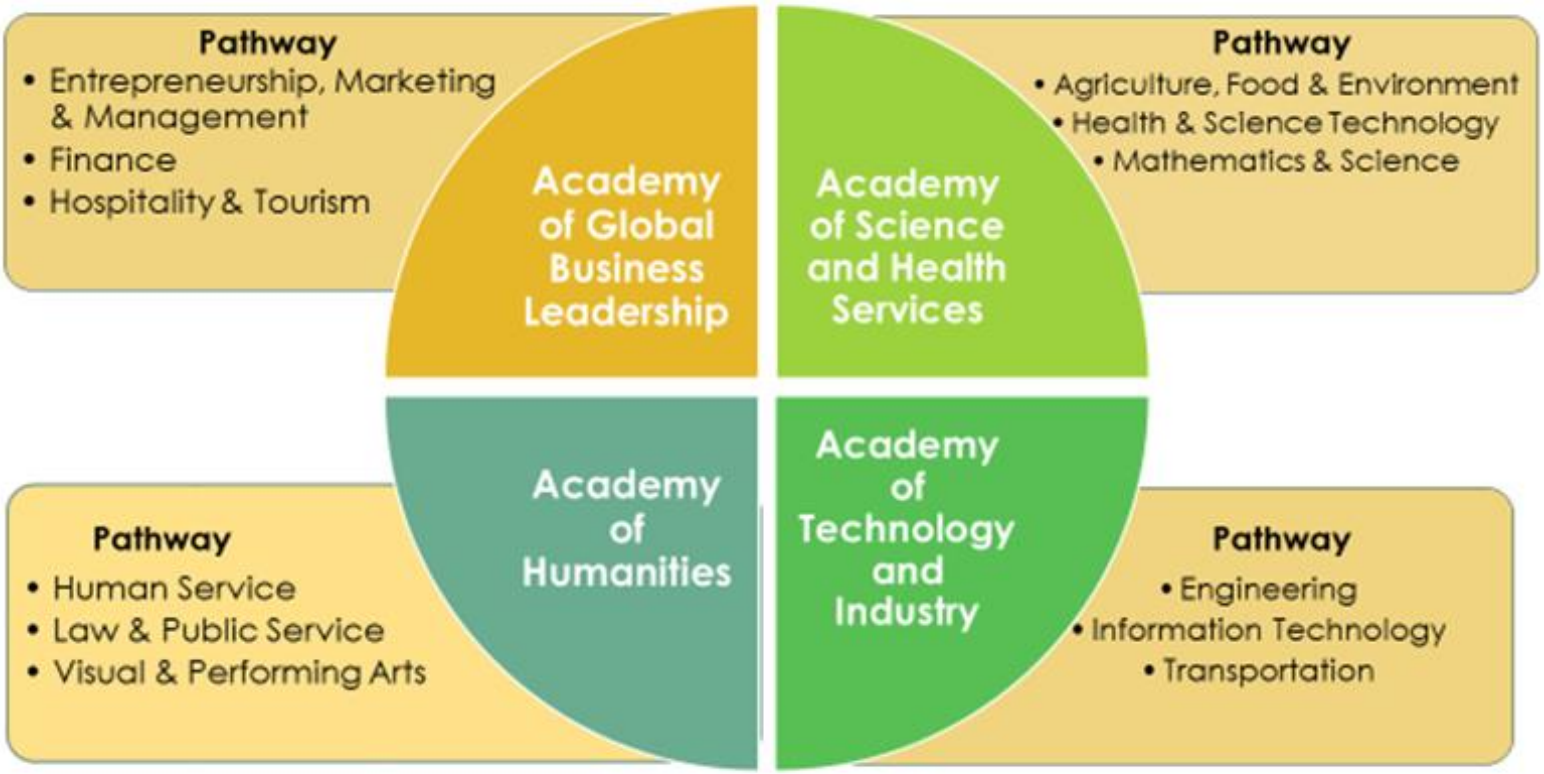
Dual-Enrollment Courses

AP Aural Skills
AP Calculus AB
AP Calculus BC
AP Computer Science Principles
AP Environmental Science
AP French Language and Culture
AP Italian Language and Culture
AP Macroeconomics
AP Music Theory II
AP Spanish Language and Culture
AP Spanish Literature and Culture
AP Statistics
AP US History
Automotive II
Business Analysis/Business Computer Applications "Virtual Enterprise"
College Accounting
College Reading and Writing
Commercial Law
French 4H
Heritage Spanish
Introduction to Microcomputer Applications
Italian 4H
Network Fundamentals 1
Network Fundamentals II
Pre-Calculus
Pre-Calculus H
Principles of Engineering
Principles of Marketing
Spanish 4H
Spanish 4R
Spanish 5

Academies

To ensure that Longwood High School students are college and career ready and thoroughly prepared for their post-secondary futures we are re-envisioning the high school experience and re-structuring into college and career academies.

The Longwood High School Academies will provide students with the tools, skills, and knowledge necessary to either enter college or the workforce. As freshman and sophomores students will participate in a guided exploration and in depth study of the myriad of careers available to them. Through instruction, field trips, guest speakers, and the technology resource, Naviance, students will envision the range of college and career possibilities available to them, and connect their academic life to their long term success. They will explore and identify their interests and skillsets and create a personalized learning plan to guide their remaining years of study.



Academy of Technology and Industry
Engineering

Designed to foster the growth of students who have expressed interest in engineering, architecture and related technology fields.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English (Capstone) 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:
Design and Drawing for Production, *Principles of Engineering, Computer Aided Design, Electricity/Electronics, *AP Computer Science, Production Systems, Architectural Drawing/Model Construction, Architectural Site Design, Energy & Power, Residential Structures/Set Construction, *A Level 4 World Language

Academy of Technology and Industry
Information Technology

Introduces students to the broad career opportunities in today's digital workforce. IT seeks to develop the personal, analytical, technical and communication skills needed for success. The IT Pathway provides the opportunity for exploration of careers related to computer science, digital media or information technology.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English (Capstone) 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:
Cisco IT Essentials, *Network Fundamentals 1, *Network Fundamentals 2, Introduction to Computer Programming/ Visual Basics, *AP Computer Science, Design and Drawing for Production, *Principles of Engineering, *Introduction to Microcomputer Applications, Electricity/Electronics, *A Level 4 World Language

Academy of Technology and Industry
Transportation

Focuses on planning, management and movement of people, materials and goods by road, pipeline, air, rail and water. It also explores related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:
Design and Drawing for Production, Auto Service 1, *Auto Service 2, Electricity/Electronics, Transportation Systems, Land Transportation, *Principles of Engineering, *A Level 4 World Language

Academy of Science and Health Service
Health Sciences & Technology

Health care support and personal care services are projected to be the highest growing employment opportunity on Long Island. The Health Science & Technology Pathway seeks to equip and empower students to excel in healthcare related careers and programs of post-secondary study.

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:

Lab Techniques, Biology/Living Environment (Required), AP Biology, Anatomy & Physiology Chemistry/ *AP Chemistry, *AP Environmental Science, *AP Psychology, Animal & Plant Behavior, Adolescent Psychology, Parenting, P.P. Anti-Social Behavior, Marine Science, Biological Adaptations, Advance Science Research, Statistics/ *AP Statistics, Life Time Activities P.E., Advanced Zoology, Food & Nutrition, Physics/ *AP Physics, * A Level 4 World Language

Academy of Science and Health Service
Agriculture, Food and Environment

Agriculture isn't just farming anymore. Opportunities abound in this wide open field; some examples are solar energy, husbandry, new tool design, machines for farming, processing foods and lowering carbon footprint technology. Students in this pathway will continue to explore their interest in math, science, and the environment.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:
*Long Island Past, Present & Future, Statistics/*AP Statistics, Energy and Power, *Principles of Engineering, Astronomy, Chemistry/*AP Chemistry, Marine Science, Meteorology, Introduction to Food & Textiles, Food & Nutrition, Animal & Plant Behavior, *AP Environmental Science, Human Ecology, Geology, Earth Science (Required), Cultural Foods, Gourmet Foods, Biological Adaptations, *A Level 4 World Language

Academy of Science and Health Service
Mathematics and Science

Mathematics and science related fields are a centerpiece of our global prominence. The Mathematics and Science pathway is designed to appeal to students that are strong in math and science and plan to attend post-secondary education with a STEM related concentration.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:

Statistics/ *AP Statistics, *AP Macroeconomics, AP Biology, College Accounting, Astronomy, Chemistry/*AP Chemistry, Marine Science, Fundamentals of Math, *AP Environmental Science, Human Ecology, Geology, Calculus/ *Pre-Calculus, *AP Calculus, Math & Financial Applications, Physics/*AP Physics, Meteorology, *A Level 4 World Language

Academy of Humanities
Human Services

Encompasses careers related to childcare, civil service, education, and the social services. These may include law and legal studies, public administration, child and family services, education, government, law enforcement, leisure and recreation, military, religion, social services, and personal services.

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Elective 9. Elective

Electives related to pathway:

Statistics/ *AP Statistics, *Principles of Marketing, Broadcast Journalism, Child Development, Parenting, Journalism, Lab Techniques, Human ecology, P.P. Peers Reaching Out, P.P. Multi-Cultural Identity, *AP Psychology, Adolescent Psychology, P.P. Anti-Social Behavior, Facing History & Ourselves, P.P. Facing History & Ourselves, *A Level 4 World Language

Academy of Humanities
Law & Public Service

Develops student interest and knowledge in areas ranging from law, police services, civics, leadership, history and service to the community.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:

* AP Environmental Science, P.P. Anti-Social Behavior, Broadcast Journalism, *College Accounting, P.P. Criminal Justice, Statistics/ *AP Statistics, P.P. News Literacy, *Commercial Law, Journalism, Marine Science, *P.P. Issues & Government/PMC, Adolescent Psychology, P.P. Peers Reaching Out, Personal Business Law, Math for College Bound, P.P. Multi-Cultural Identity, Communication Systems, *Principles of Marketing, *AP Psychology, Lab Techniques, *Intro to Microcomputer Applications, Facing History & Ourselves, P.P. Facing History & Ourselves, Human Ecology, *A Level 4 World Language

Academy of Humanities
Visual & Performing Arts

Explores and develops student talent in fine arts, theater, instrumental and vocal music. Seasonal in house productions, stagecraft, fine arts shows, musicals and marching band performances take center stage.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:

Concert Band 11th & 12th, Chorus 11th & 12th, Orchestra 11th & 12th, Music Theory I, *AP Music Theory II, Advertising Art, Studio Art A & B, Creative Crafts A & B, Broadcast Journalism, Graphic Communication, Sport Module II-PE, Photography I, II & III, Studio Drawing & Painting I, II, Studio Fashion & Illustration, Sculpture, Communication Systems, Art Work Shop/ Graphic Communication, Multicultural Folk Art, Pottery I &II, *A Level 4 World Language

Academy of Global Business Leadership
Entrepreneurship, Marketing & Management

Allows students to learn the management functions and challenges of planning, organizing, directing and controlling a business. Students will explore aspects of human resources, marketing and finances while improving skills in digital communication and public speaking.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Additional courses and electives related to pathway:
*College Accounting, P.P. Anti-Social Behavior, *AP Computer Science, P.P. Peers Reaching Out, Journalism, *Principles of Marketing, *Commercial Law, Broadcast Journalism, Statistics/*AP Statistics, P.P. News Literacy, Communication Systems, Sports Marketing, Personal Business Law, Advertising Art, Math & Financial Applications, *B.A.B.C.A. Virtual Enterprises, *Intro to Microcomputer Applications, Graphic Design, Fundamentals of Math, *A Level 4 World Language

Academy of Global Business Leadership
Finance

Introduces students to concepts and skills in personal and corporate business. Students who complete the accounting class series will learn basic and advanced accounting concepts utilizing computer technology. Students will learn the necessary financial skills required to operate a business while learning the professional skills of leadership and management.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:
Statistics/*AP Statistics, *AP Macroeconomics, *AP Statistics, Personal Business Law, *Commercial Business Law, Calculus /*AP Calculus, Introduction to Computer Programing/ Visual Basics, *Pre-Calculus, Sports Marketing, *College Accounting, Math & Financial Applications, *B.A.B.C.A. Virtual Enterprises, *Intro to Microsoft Computer Applications, *Principles of Marketing, *AP Computer Science, Fundamentals of Math, *A Level 4 World Language

Academy of Global Business Leadership
Hospitality & Tourism

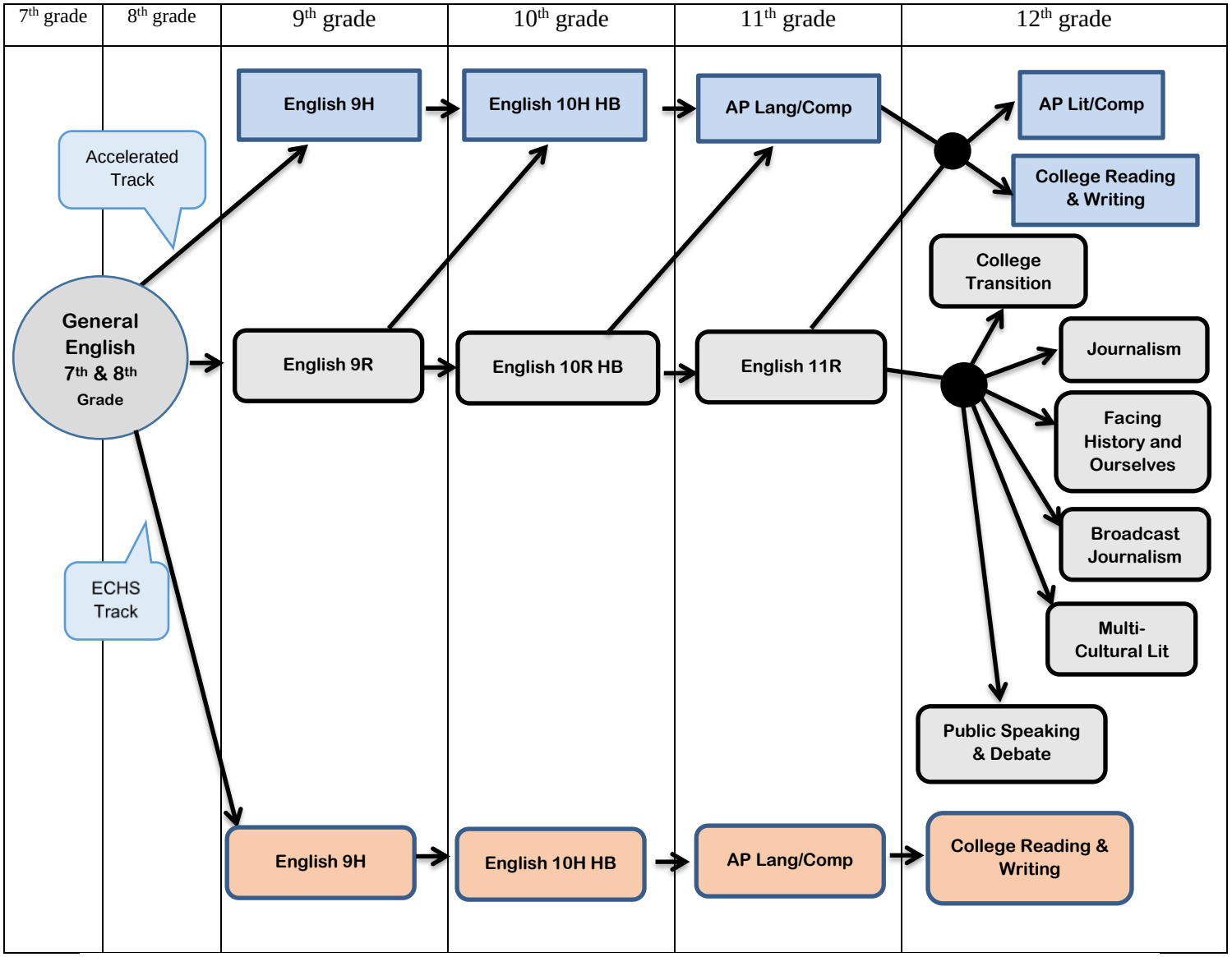
Provides students with knowledge and skills for a successful career in one of the world's largest service industries. It encompasses the management, marketing and operations of restaurants and other facilities and services including lodging, attractions, recreation events and travel-related services.

Recommended Program of Study

9th Grade 1. English 9R 2. Algebra I 3. Earth Science 4. Global Studies I 5. Physical Education 6. Lunch 7. ACE 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra	10th Grade 1. English 10R 2. English 10R/ Global Studies II (Lab) 3. Global Studies II 4. Geometry 5. Biology/ Living Environment 6. Physical Education 7. Lunch 8. World Language 9. Art/DDP/ Band/Chorus/ Orchestra
11th Grade 1. English 11R 2. U.S. History 3. Algebra II 4. Chemistry 5. Physical Education 6. Lunch 7. Health 8. Pathway Elective 9. Pathway Elective	12th Grade 1. English 12 2. Economics/Public Policy 3. Science 4. Math 5. Pathway Elective 6. Lunch 7. Physical Education 8. Pathway Elective 9. Pathway Elective

Electives related to pathway:
Statistics/*AP Statistics, *AP Macroeconomics, *AP European History, *Long Island Past, Present & Future, Photography I, II & III, *College Accounting, Math & Financial Applications, P.P. News Literacy, *B.A.B.C.A. Virtual Enterprise, P.P. Anti-Social Behavior, P.P. Peers Reaching Out, Advertising Art, Facing History & Ourselves, P.P. Facing History & Ourselves, Multicultural Folk Art, Business Communications Keyboarding, *Intro to Microcomputer Applications, Personal Business Law, *Commercial Business Law, P.P. Multi-Cultural Identity, Communication Systems, Graphic Communication Systems, Broadcast Journalism, Journalism, Food and Nutrition, Cultural Foods, Gourmet Foods, Fundamentals of Math, *A Level 4 World Language

English Course Offerings



**** Flowchart shows possible sequences. See course descriptions for detailed prerequisites***

9th Grade Program

0102 English 9R (1 Credit)

This course is designed for students who are now required to demonstrate reading, writing, speaking, and listening skills on the 11th grade ELA Common Core Regents Exam. Areas of study include: the writing process, literary analysis and interpretation, note-taking skills, research, and builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing.

Additionally, this course introduces and defines various genres of literature, with writing exercises linked to reading selections.

NCAA Approved

0101 English 9H (1 Credit Honors)

Prerequisite: A final grade of 90 or better in 7th grade English and social studies and a current average of 90 or better in English and social studies; and mastery level on the New York State 8th grade ELA and social studies assessments. Students must also take AP World History I (0238) and successfully complete the required summer assignment.

This course uses representative literature selections from ancient and/or modern times from countries around the world. Students improve their critical thinking skills as they comprehend the diversity of literary traditions and the influences of those traditions. Oral discussion is an integral part of this literature course, and written expression is required. This course is designed for students of outstanding academic ability who exhibit leadership, motivation, and complex thinking skills. This course is reading and writing intensive and requires the student to work independently.

NCAA Approved

10th Grade Program

English Grade 10 Humanities Block

The high school's three year preparation for the ELA Common Core Regents Exam will include an extra period of English every other day for all tenth grade students. Students will be scheduled in a similar fashion for social studies 10. The combination of English 10 and Social Studies 10 are referred to as a Humanities Block which will afford increased opportunities for learning and for the development of critical common skills. All students will complete research based projects in conjunction with both classes. This block will also work with Naviance to help students become aware of post-secondary career opportunities.

0106 English 10R - Humanities Block (1 ½ Credits)

Prerequisite: Successful completion of English 9. Students must also request Global History & Geography 10R HB (0209) Humanities Block.

This course is designed for students who are now required to demonstrate reading, writing, speaking and listening, and language skills on the ELA Common Core Regents Exam. This course offers a balanced focus on composition and literature, focusing on World Literature. Students learn about the alternate aims and audiences of written compositions by writing argumentative, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's

intent and theme to recognize the techniques used by the author to deliver his or her message. Research is an integral part of this class.

NCAA Approved

0105 English 10H - Humanities Block (1 ½ Credits - Honors)

Prerequisite: A final grade of 90 or better in English 9R, OR an 85 or better in English 9H. English teacher recommendation is required. Students must also request AP World History 2 (0237) and successfully complete the required summer assignment.

All honors students must successfully complete the required summer assignment. This course is designed for students who are now required to demonstrate reading, writing, speaking and listening, and language skills and uses representative literature selections from ancient and/or modern times from countries around the world. Students improve their critical thinking skills as they comprehend the diversity of literary traditions and the influences of those traditions. Oral discussion is an integral part of this literature course, and written expression is required. This course is designed for students of outstanding academic ability who exhibit leadership, motivation, and complex thinking skills. This course is reading and writing intensive and requires the student to work independently.

NCAA Approved

11th Grade Program

0111 English 11R (1 Credit)

Prerequisite: English 10

The goal of this course is to prepare students to demonstrate proficiency in the skills tested by the ELA Common Core Regents Exam. This course continues to develop students' writing skills. Emphasizing clear, logical writing patterns, word choice and usage, as students write essays and continue to learn the techniques of writing research papers. Students continue to read works of fiction/non-fiction literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in prior courses. Students will research important historical events and compose reports, both written and oral, which will discuss the relationship between historic periods and the literature of their time with a concentration on American Literature. Students must take the ELA Common Core Regents Exam in June.

NCAA Approved

0115 AP English Language and Composition (1 Credit - Advance Placement)

Prerequisite: A final grade of 85 or better in English 10H and a final grade of 90 or better in English 10R and teacher recommendation. Successful completion of a summer assignment is required.

Following the College Board's suggested curriculum designed to parallel college-level English courses, this AP English Language and Composition course will expose students to prose written in a variety of literary periods, disciplines, and rhetorical contexts throughout American history. The goal of this course is to understand and appreciate American literary thought. Special attention will be paid to the development of the cultural history of American society. This course emphasizes the interaction of authorial purpose, intended audience, and the subject at hand, and through them, students learn to develop stylistic flexibility as they write compositions covering a variety of subjects that are intended for various purposes. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit.

NCAA Approved

12th Grade Program

Seniors should select one full-year course.

0114 AP English Literature and Composition (1 Credit - Advanced Placement)

Prerequisite: A final grade of 85 or better in AP English Language and Composition or 90 or better in English 11R and 85 or better on the ELA Common Core Regents Exam. Successful completion of summer assignment is required.

Following the College Board's suggested curriculum designed to parallel college-level English courses, this AP English Literature and Composition course enables students to develop critical standards for evaluating literature. Students study the language, character, action, and theme in works of recognized literary merit; enrich their understanding of connotation, metaphor, irony, syntax, and tone; and write compositions of their own (including literary analysis, exposition, argument, creative, and college application writing.) All students will complete a college application essay. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit.

NCAA Approved

0120 Journalism (1 Credit)

This course teaches students communication skills – reading, writing, listening and speaking – concentrating on "real world" applications – a general survey of different newspaper and magazine styles. A study will be made of journalistic views on contemporary problems and ideas. The focus will be on the production of a digital school newspaper. Practical experience in newspaper writing and

television news will be included in the course. Word processing and computer graphic skills will be taught and executed in the practical application of school related information. This course requires extra work beyond class time. All students will complete a college application essay.

NCAA Approved

0126 Broadcast Journalism (1 Credit)

Prerequisite: A grade of 85 or better on the ELA Regents Exam.

This course focuses on the application of written and oral communication skills through a variety of formal and informal experiences. The course is performance based and emphasizes effective inter-personal and team-building skills. This course is an in-depth, practical application of media as our contemporary communicator. This combined English/Communications course includes hands-on production projects that will focus on the writing and production of local news stories, events and documentaries. A study will be made of journalistic views on contemporary problems and ideas. Excellence in writing, computer and communication skills are necessary to successfully complete this course. This course requires extra work beyond class. All students will complete a college application essay.

0135 English 12 (1 Credit) (formerly known as College Transition)

This course is designed for seniors and builds upon previous writing skills, reinforcing the logic and critical-thinking skills that accompany good writing. This course emphasizes word choice, usage, and writing mechanics, which provide continued and advanced instruction in writing for a variety of purposes and audiences. Students will also be prepared for post-secondary life. This course will provide an opportunity for students to engage in inquiry-oriented learning through the study of non-fiction, fiction, contemporary issues, and the media. By focusing on the fundamentals of communication, both written and spoken, critical listening and thinking, public speaking, persuasion, and debate, students will express their understanding of the ideas, needs and values common to all human beings. All students will complete a college application essay.

NCAA Approved

0129 Facing History and Ourselves (1 Credit)

Facing History and Ourselves uses the methods of the humanities – inquiry, analysis and interpretation to promote the knowledge, values, and skills needed to preserve and protect democracy. Through a rigorous examination of literature, eyewitness accounts, film, visual arts, historians' interpretations, and historical documents, students gain insight into the conditions that lead to collective violence and genocide. By looking at events such as the Holocaust, students come to understand that most events in

history are the result of choices made by countless individuals and groups. All students will complete a college application essay.

NCAA Approved

0123 Multi-Cultural Literature – Silenced Voices (1 Credit)

Multicultural Literature/Silenced Voices: This course explores literature written by those that society has aimed to keep silent. Focusing on literature not often taught in regular curriculum, this class works to understand the experiences of diverse authors and the social, political and economic factors that worked to influence their writing. Students will be exposed to a variety of literature from Afro-American, multicultural, feminist, and LGBTQ authors, in hopes of understanding the causes and symptoms of inequity in our society. The course will focus on literature outside the literary canon. All students will complete a college application essay.

0132 Public Speaking and Debate (1 Credit)

Public Speaking and Debate: Do you have anxiety about presenting in front of class? When you speak, is the only thing that seems to come out "like," "umm," or "so"? Then, Public Speaking and Debate is the course for you. In this class, students will actively participate in creating a positive and encouraging environment. This course will serve to make each student aware of his/her personal speech habits and characteristics, to increase each student's confidence, to develop speech preparation and presentation techniques, and to increase both audience and self-awareness. The course will also have an emphasis on effective research, active listening, and varying persuasion techniques. Examples of great public speakers throughout history are explored, and vocal projection, and body language are emphasized. Students leave the course with a greater confidence in their ability to think critically and speak persuasively. All students will complete a college application essay.

Suffolk Beacon Program (Honors)

The Beacon Program allows students to earn college credits recorded on an official Suffolk transcript. College credits earned with a reported grade of "C" or better are accepted by a wide range of colleges/universities throughout the country, with general acceptance within State University of New York (SUNY) institutions. Acceptance of credit for college level course work is under the domain of the individual college /university for their specific course credit transfer and equivalency policies. Suffolk County Community College will accept all credits earned successfully through the Beacon Program. Tuition fee of $159 for three credits is payable to Suffolk in September.

0131 College Reading and Writing (1 Credit - HONORS)

Prerequisite: A grade of 85 or better on the ELA Common Core Regents Exam. All students must successfully complete the required summer assignment.

This course offers students the opportunity to develop and improve their technique and individual style in poetry, short story, drama, essays and other forms of prose. The emphasis of the course is on writing; however, students may study exemplary representations and authors to obtain a fuller appreciation of the form and craft. This course will cover several expressive forms, including screenwriting and play-writing. All students will complete a college application essay. Successful completion of a summer assignment is required.

NCAA Approved
SCCC Beacon Approved

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, Current Teacher Approval, Department Chairperson/Supervisor Approval

0155 English 9R (1 Credit)

Prerequisite: Completion of Grade 8 English. Students must also request Humanities (0160).

This course is designed for students who are now required to demonstrate reading, writing, speaking, and listening skills on the 11th grade ELA Common Core Regents Exam. Areas of study include: the writing process, literary analysis and interpretation, note-taking skills, research, and builds upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing. Additionally, this course introduces and defines various genres of literature, with writing exercises linked to reading selections.

NCAA Approved

0152 English 10R - Humanities Block (1½ Credit)

Prerequisite: Successful completion of Grade 9 English. Students must also request Global History (0251Z) Humanities Block

This course is designed for students who are now required to demonstrate reading, writing, speaking and listening, and language skills on the ELA Common Core Regents Exam. This course offers a balanced focus on composition and literature, focusing on World Literature to help support the Global Studies curriculum. Students learn about the alternate aims and audiences of written compositions by writing argumentative, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and

develop the skills to determine the author's intent and theme to recognize the techniques used by the author to deliver his or her message. Research is an integral part of this class.

NCAA Approved

0153 English 11R (1 Credit)

Prerequisite: English 10

This course has two major goals: to prepare students to demonstrate proficiency in the skills tested by the ELA Common Core Regents Exam, and to understand and appreciate American literary thought. Special attention will be paid to the development of the cultural history of American society. Students will research important historical events and compose reports, both written and oral, which will discuss the relationship between history and literature. Other essays will be expository or analytical in nature. Homework, quizzes and exams will be administered. Students must take the ELA Common Core Regents Exam in June.

NCAA Approved

0154 English 12R (1 Credit)

Prerequisite: English 11

This course is designed to further develop basic English skills. Students will continue working in the areas of reading comprehension, grammar, composition and speech. Regents skills will be reviewed for those students who need to pass the state requirements necessary for graduation. Through various novels and short stories, literary skills will be emphasized.

NCAA Approved

0169 Instructional Support 0159 Resource

Students are assigned to Instructional Support/Resource based on recommendations from the CSE. This program is designed as a highly specialized and individualized program.

0160 Humanities (1 Credit)

Prerequisite: Students must request English 9R (0155)

Students will develop thinking, reading and writing skills through study of the seven social sciences. This course will integrate both classical English literature, as well as historical references to develop essay-writing skills, reading ability and an awareness of a wide variety of sociological issues.

Grade Taught: 9

0159F Intensive Reading

This course is designed to target students' needs in the areas of reading, including decoding, comprehension, fluency and vocabulary. Students participate in research based instructional methods. Instruction utilized formative assessment and daily progress monitoring to create an individualized program based on needs determined by CSE.

The English as a New Language (ENL) Course Offerings

The ENL program provides English Language Learners (ELLs) opportunities to interact with a variety of types of texts in order to foster both social and academic language. A variety of instructional methodologies are employed to help diverse English Language Learners meet the Next Generation Learning Standards as required for graduation.

ENL Proficiency Levels: Proficiency in English for enrolling ELL students is determined by an initial assessment (the NYSITELL) followed by annual assessment each May using the New York State English as a Second Language Achievement Test (NYESLAT). The five-level progression of English proficiency is: Entering, Emerging, Transitioning, Expanding and Commanding. Results of the annual assessment are used to make scheduling decisions in terms of ENL support required for the next school year. Commanding level students (formerly known as English Proficient level) are considered to have exited the ELL designation, but may continue to receive ENL supports and NYS testing modifications for two additional school years after achieving Commanding level.

Integrated ENL/Content Area Courses: All levels of English Language Learners (ELLs) will be scheduled into a credit-bearing academic course with scaffolded academic and linguistic supports according to each students' level English proficiency. This course will be a taught by a teacher dually certified in that academic content area and ENL, or will be co-taught by a content certified teacher and an ENL certified teacher. Successful completion of ENL/Content course awards credit in the content area (such as mathematics, science English language arts or social studies).

ENL Language Courses: In addition to ENL content-area courses, Entering, Emerging and Transitioning level English Language Learners will be scheduled for English as a New Language. This course is designed to foster language acquisition in the areas of basic interpersonal (social) communication, as well as language skills necessary to successfully engage in academic coursework. Successful completion of an ENL language course awards elective credit which will count toward the credits required to earn a NYS diploma.

0143EN Entering and Emerging ENL

Students at this level demonstrate great dependence on linguistic structures and support in order to advance academic language skill along will basic interpersonal (social) communication skills. All four language modalities (reading, writing, listening and speaking) are engaged to scaffold English Language Learners' language proficiency in a variety of academic and social contexts. Students will be exposed to a variety of types of written and spoken English, including informal texts, fiction, charts, maps, graphs and other forms of academic literacy. Students at this level will progress from fundamental communicative competence, towards increasing complexity in the formal structure of English. Students at this level begin with the sounds, vocabulary and syntax necessary to understand

and be understood in English. Coursework is differentiated within a given year of instruction according to the initial and developing proficiency levels of enrolled students.

0142N Transitioning ENL

Students at this level demonstrate increasing independence in academic language skill along with basic interpersonal (social) communication skills. All four language modalities (reading, writing, listening and speaking) are engaged to scaffold English Language Learners' language proficiency in a variety of academic and social contexts. Students will read and produce a variety of types of written and spoken English, including informational text, fiction, charts, maps, graphs and other forms of communication typically employed in academic classes. Students at this level will progress from emerging communicative competence, towards increasing complexity in the formal structure of English. Students at this level increase from ability to read and write basic (SVO) sentences, toward production of more complex sentences, organized paragraphs and formal academic essays. Coursework is differentiated within a given year of instruction according to the initial and developing proficiency levels of enrolled students.

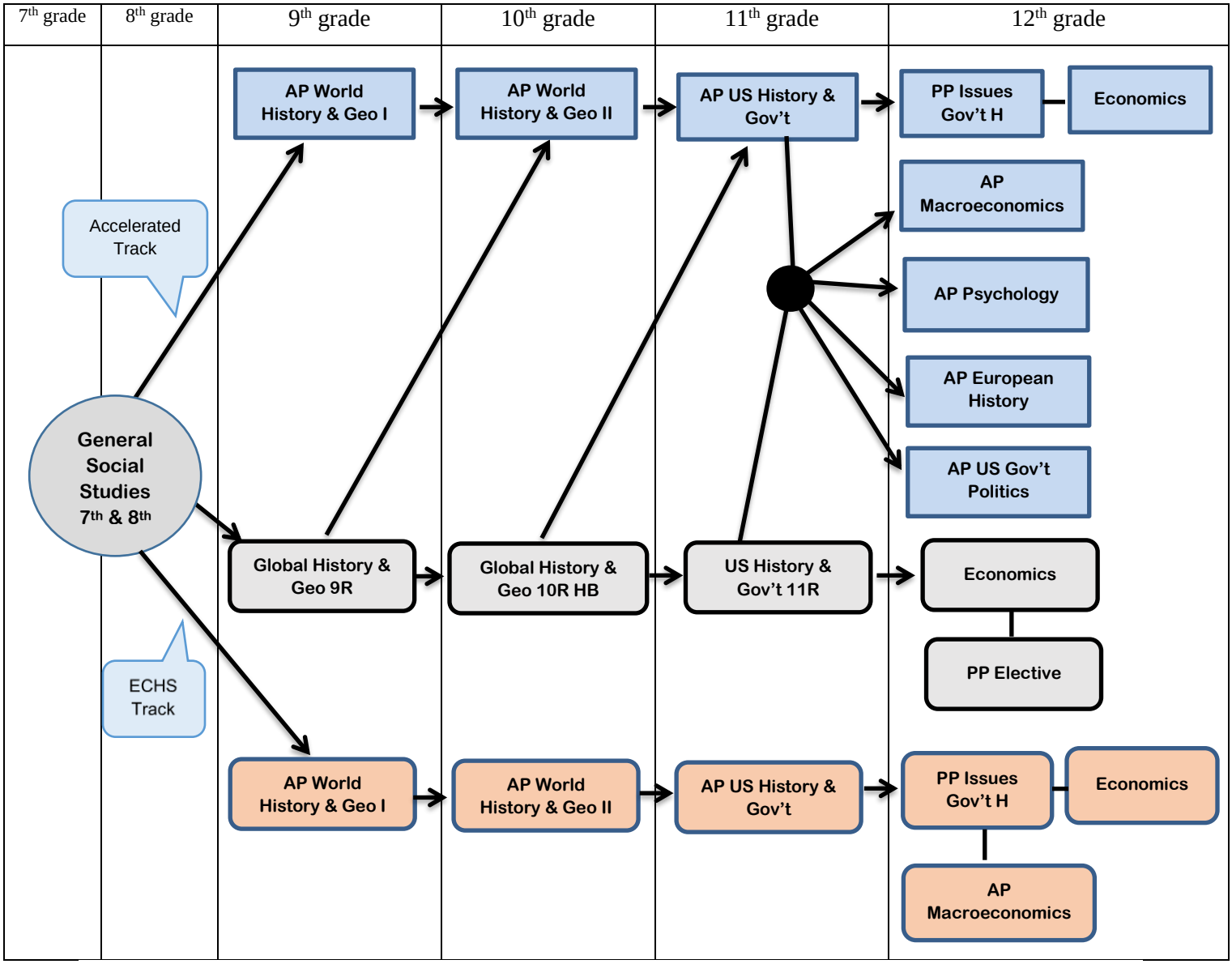
0300E Pre-Algebra for ELLs (1 Credit)

This course is designed for English language learners (ELLs) who need extra skill development and support in essential algebraic concepts. Students will focus on content vocabulary, language structures, grammar and math concepts while working in an environment that is appropriately paced and structured for students' diverse linguistic proficiency levels and educational backgrounds. Students will solidify and expand on their knowledge of Algebra, and will build the skills necessary to succeed in Algebra as well as all other future math classes. Coursework will provide opportunities for students to engage in all four modalities of language learning – reading, writing, listening and speaking. Successful completion awards 1 mathematics credit.

0407E Biological Science for ELLs (1 credit)

This inquiry-based course is designed for English language learners (ELLs) who need extra skill development and support in science before taking Biology (Living Environment) and Earth Science. Students will focus on content vocabulary, language structures, grammar and science concepts while working in an environment that is appropriately paced and structured for students' diverse linguistic proficiency levels and educational backgrounds. Students will solidify and expand on their knowledge of Biology (Living Environment), and will build the skills necessary to succeed in Biology (Living Environment) as well as all other future science classes. Coursework will provide opportunities for students to engage in all four modalities of language learning- reading, writing, listening and speaking. This course does not end in a Regents Examination. Successful completion awards 1 science credit.

Social Studies Course Offerings



**** Flowchart shows possible sequences. See course descriptions for detailed prerequisites***

In order to meet the responsibilities of today's complex society, a citizen should be familiar with the basic concepts of history, geography, economics, sociology, and politics. The Social Studies courses are designed to present these concepts and inspire students to play a significant role in society. It is our firm hope that an informed citizen transfers knowledge into sound behavioral actions. Major emphasis is placed on the development of skills in critical thinking, reading, oral and written expression, gathering and organizing information and reaching logical conclusions. All skills are stressed each year so that students will be able to develop competency, consistent with their abilities.

9th Grade Program

The Social Studies program for 9th grade is Global History and Geography. It provides students with the opportunity to study world cultures and civilizations as they apply to the Five New York State Social Studies Standards. During the course of the year, students will understand the connections which exist between the study of Global History, Geography and the complex interdependent global society in which they live. They will also develop an understanding of how societies throughout history have developed economic systems which allocate scarce resources. Ninth grade is the first year of a two-year program. The chronological developed units of study begin with Ancient civilizations and culminating with the Age of Absolutism.

0202 Global History and Geography 9R (1 Credit)

This is a dynamic and challenging course. It develops and sharpens the tools needed for students to be self-directed learners, as well as collaborative workers. Higher level performance and problem solving skills are taught. This course focuses on the reading of a wide array of primary source materials, extensive writing activities and the development of high level conceptual thinking skills. Students will be exposed to a high degree of interdisciplinary English and historical activities. Also, students will be responsible for producing research projects. The overall intent of the course is to enforce the major concepts and themes that are needed to understand the connections which exist between the study of Global History and Geography and the complex interdependent global society in which they live. This program culminates in the Global Studies Regents Exam at the end of grade 10.

NCAA Approved

10th Grade Program

Social Studies Grade 10 Humanities Block Course Description:

The high school's two-year preparation for the Global Studies Regents Exam will include an extra period of Global Studies every other day for all 10th grade students. Students will be scheduled in a similar fashion for grade 10 English. The combination of Social Studies 10 and English 10 is referred to as a Humanities Block which will afford increased opportunities for learning and for the development of critical common skills. This Humanities Block will emphasize the reading, writing, research, listening, and speaking skills necessary for success in grade eleven and beyond. This block will also work with Naviance to help students become aware of post-secondary career opportunities.

0209 Global History and Geography - 10R Humanities Block (1 ½ Credits)

Prerequisite: Global Studies 9R

The program for grade ten is the second year of the two-year Global Studies course. This program focuses on the study of World History which requires an understanding of world cultures and civilizations, including the analysis of important ideas, social and cultural values, beliefs, and traditions. This study also examines the human condition and the connections and interactions of people across time and space and the ways different people view the same event or issue from a variety of perspectives. This course will concentrate on building skills necessary to pass the Global Studies Regents Exam at the end of the year.

NCAA Approved

11th Grade Program

0212 United States History and Government (1 Credit)

Prerequisite: Global Studies 10

This is a chronologically organized course in U.S. History, with constitutional and legal issues developed. Emphasis is placed upon the study of industrial growth, foreign policy and research based writing. This course concludes in the US History Regents Exam.

NCAA Approved

12th Grade Program

All seniors are required to complete the following:

½ Credit in Economics

AND

½ Credit in one (1) of the following Public Policy Courses:

Anti-Social Behavior

Criminal Justice

Issues in Government/PMC

Multi-Cultural Identity

News Literacy

Peers Reaching Out

Facing History and Ourselves

Long Island Past, Present & Future

0215 Economics (½ Credit)

Prerequisite: U.S. History & Government 11R

This is a senior level course in economics and economic decision making. The course includes the basic economic concepts and understandings which people need to function effectively and intelligently as citizens and participants in the United States and the world.

NCAA Approved

Public Policy Choices

0216 Public Policy - Criminal Justice (½ Credit)

This senior level course is designed to enable the students to understand how our Criminal Justice System works and relates to our day to day lives. The students will know their rights and responsibilities as a citizen. This course may offer a trip to Yaphank Jail, or other similar alternatives, to enable some students to understand the negative dynamics of incarceration. The students will study the organization and function of the Suffolk County Police Department, the court system of the State of New York, and the penal system of the United States. Research or reaction papers are due each week.

NCAA Approved

0217 Public Policy - Anti Social Behavior (½ Credit)

The course is designed to explore the many issues of society and behaviors that are viewed as deviant among our culture. Anti-Social Behavior is a course designed to meet the public policy criteria,

while allowing students the chance to study their own society as well as others. Students will gain greater understanding of society in an ever globalizing world. This will include topics such as the development of social consciousness, social stratification, the nature of deviance and gender inequality etc. After completing this course, the student should acquire a practical knowledge of his/her surroundings.

NCAA Approved

0219 Public Policy - Peers Reaching Out (½ Credit)

This senior level peer leadership course follows the New York State suggested syllabus through the community service model. Emphasis is placed on a skills for living curriculum, and participation in class activities. Topics include communication skills, decision making, substance abuse, and how public policy is formulated. *Community service is required.*

0220 Public Policy - Multicultural Identity (½ Credit)

This senior course is designed to explore many of our contemporary issues affecting society today such as sexism, racism, problems in the family, drugs, homelessness and violence. This course will also delve into many different ethnic groups and their issues. Grading will be based solely on position papers and class participation.

NCAA Approved

0221 Public Policy – Sports in American History (½ Credit)

This course is designed to explore contemporary United Stated issues and the place sports hold in American life throughout our nation's history. The primary focus of the class will be on sports as a reflection of our social, political and economic makeup and its ability to affect and shape our institutions. Particular attention will be given to social class, race and ethnicity, gender, community, technology and commercialization and the media.

0222 Public Policy - Media Literacy (½ Credit)

How do you know if you are getting the truth from the news media? Media Literacy is a half year public policy course designed to create responsible, well-informed news consumers. Students will learn how to distinguish verified information from raw messages, spin, gossip and opinion. Students will be encouraged to seek material that will make them well-informed citizens and voters.

NCAA Approved

0223 Public Policy - Long Island Past, Present & Future (1/2 Credit)

This course is designed to explore the development of Long Island from Dutch Settlement days through the present. Students will explore Long Island through a number of unique perspectives, including but not limited to, literature, history texts, site visits, films and speakers. A considerable amount of time in this course will be dedicated to exploring the current economic, governmental, political and social issues and trends affecting Long Island.

NCAA Approved

0236 Public Policy - Facing History & Ourselves (½ Credit)

Facing History students will examine the roles, rights and responsibilities of citizenship in a global context. This course will examine the purposes of government and civic life, and the differing assumptions held by people across time and place, regarding power, authority, governance and avenues for participation of the citizen. Students will look at events such as the Holocaust, racism, anti-Semitism and political violence to understand that most events in history are the result of choices made by countless individuals and groups. Within a global context, the course will examine personal responsibilities inherent in a democratic process that promote the public welfare of a society and acknowledges responsibility for the consequences of a citizen's actions.

NCAA Approved

0218H Public Policy - Issues In Government/Princeton Model Congress (½ Credit - Honors) - *Offered Fall Semester Only*

Prerequisite: A Global History Regents Exam grade of 85 or better. A final grade of 85 or better in AP US History, 90 or better on the US History Regents Exam and a teacher recommendation. Offered Fall semester only. This course is also known as Princeton Model Congress.

This course will prepare students for participation in the Princeton Model Congress program. In the first half of the school year, students will research issues in government, learn debate structure, and engage in the creation of their own bill for legislation. Students are then required to take part in the hands-on experience of traveling to Washington DC for the Princeton Model Congress in mid-November. Attendance on this trip is mandatory for the issuance of credit in this course. Students will pay for their hotel and food costs while in Washington DC during this four day field trip. Students should only take this course if they are interested in engaging in meaningful debate, public speaking, and policy implementation. There is an emphasis placed on debate structure and public speaking as a basis of the political process.

NCAA Approved

Advanced Placement Courses

0238 AP World History I (1 Credit - Advanced Placement)

Prerequisite: A final grade of 90 or better in 7th grade English and Social Studies and a current average of 90 or better in English and Social Studies; a teacher recommendation and mastery level on the New York State 8th grade ELA and Social Studies Assessments. Students must also take English 9H (0101) and successfully complete the summer assignment.

The AP World History I course is a dynamic course that offers students the ability to learn about world cultures from approximately 8000 B.C.E. through 1750 C.E. This course is an intensive study of history which focuses on students' abilities to connect issues over time. The Advanced Placement program is a college level course tailored to meet the needs of high school students. This is the first half of a two year course which culminates with an Advanced Placement Exam in May and the Global History Regents Exam in June. Both exams are given in a student's sophomore year. Students are required to take a final exam in June of their freshman year, upon completion of AP World History I. Students have the ability to earn college credit dependent upon their score on the AP Exam and upon the university they will attend. Readings of primary and secondary sources are expected in conjunction with extensive writing samples. Students in an Advanced Placement course are highly motivated and consistently participate in and out of the classroom. This course is offered to selected students of proven academic ability in the field of social studies. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit.

NCAA Approved

0237 AP World History II - (1 ½ Credits - Advanced Placement)

Prerequisites: A final grade of 90 or better in Global 9 or 85 or better in AP World History I. Teacher recommendation. Students must also request English 10H (0105) and complete a summer assignment.

Students must complete a summer assignment which includes extensive reading and writing. (See page 3 for AP course enrollment criteria.) The AP World History II course is a dynamic course that offers students the ability to learn about world cultures from 1750 to present, and build upon thematic, chronological thought begun in the 9th grade. This course is an intensive study of history which focuses on students' abilities to connect issues over time. The Advanced Placement program is a college level course tailored to meet the needs of high school students. This is the second half of a two year course. Students must take the AP World History Exam in May and the Global History Regents Exam in June. Both exams are given in a student's sophomore year. Students have the ability to earn college credit dependent upon their score on the Advanced Placement Exam and upon the university they will attend. Readings of primary and secondary sources are expected in conjunction with extensive writing samples. Students in an Advanced Placement course are highly motivated and consistently participate in and out of the classroom. This course is offered to selected students of proven academic ability in the field of Social Studies. Students taking this course must take the Advanced Placement examination

in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit.

Grade Taught: 10
NCAA Approved

0233 AP U.S. History (1 Credit - Advanced Placement)

Prerequisites: A final grade of 90 or better in Global 10 or an 85 in AP World History II, 85 or better on the Global 10 Regents Exam, and completion of a summer writing assignment. Extensive writing is expected in the course so that the student will be able to write document based essay questions, an integral part of the AP exam.

This course is offered to selected students of proven academic ability in the field of Social Studies. This is a college level course in American History culminating with the Advanced Placement exam in May. Students who have attained success in this examination may receive college credit. This course will fulfill the one credit requirement for U.S. History & Government. Students must take the U.S. History Regents Exam in June. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. *For an additional fee, students have the option to take this course for three – six college credits through the Suffolk County Community College's Beacon program.*

Grade Taught: 11
NCAA Approved
SCCC Beacon Approved

0234 AP European History (1 Credit - Advanced Placement)

Prerequisites: A final grade of 85 or better in US History or an 80 or better in AP US History and proficient performance on Global History Regents Exam. Prior passing grades in social studies necessary to enroll. Completion of summer writing assignments. Extensive writing is expected in the course so that the student will be able to write document based essay questions, an integral part of the Advanced Placement exam.

AP European History is a dynamic course designed to survey Western Civilization from the Renaissance through the end of the Cold War. This course is offered to selected students of proven academic ability in the field of Social Studies. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. *For an additional fee, students have the option to take this course for three college credits through the Suffolk County Community College's Beacon program.*

Grades Taught: 11 – 12
NCAA Approved

SCCC Beacon Approved

0229 AP Psychology (1 Credit - Advanced Placement)

Prerequisites: A final grade of 85 or better in US History or an 80 or better in AP US History and an 85 or better on the US History Regents Exam. Or a final grade of 85 or better in World History II or an 80 in AP World History II and an 85 or better on the World History Regents Exam. Completion of a summer assignment.

This is the course that tries to answer some of the most fascinating questions that we human beings face. It's Longwood's version of what most colleges call Psych 101. Approximately ninety percent of college students take this course because it meets the requirements of many fields of study. Also, because it tries to answer the question, "Why do people think, act, and feel the way we do?" At Longwood, the class features many interesting demonstrations, experiments, and fun cooperative activities. However, it is a very rigorous course. The demands are great and rewards are satisfying and applicable to real life. The expectation is that you have had success in previous social studies classes. What will really determine your success is: interest in the subject, having an open mind, and a willingness to complete independent tasks. The summer assignment for this course is a creative project called "The Brain." Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit.

Grades Taught: 11 – 12
NCAA Approved

0232 AP Macroeconomics (1 Credit - Advanced Placement)

Prerequisites: A final grade of 85 or better in US History or an 80 in AP US History. A score of 85 or better on the US History Regents Exam. Completion of a summer writing assignment. Students requesting this course must meet with the instructor in June. Extensive writing is expected in the course so that the student will be able to write document based essay questions, an integral part of the Advanced Placement exam.

This course provides students with a rich and rigorous course aimed at a learning experience equivalent to a typical college macroeconomics course. This course would culminate with a College Board Examination in Macroeconomics, with which students may earn the equivalent college credit for a semester long course at many colleges and universities. This class also explores public policy issues operating in government, politics, and various social sciences. This course is offered to students of proven academic ability in the field of social studies. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. *For an additional fee, students have the option to take this course for three college credits through the Suffolk County Community College's Beacon program.*

Grade Taught: 12
NCAA Approved
SCCC Beacon Approved

0239 AP US Government and Politics (1/2 Credit – Advanced Placement)

Spring Semester Only

Prerequisite: A final grade of 85 or better in AP World History II or a final grade of 90 in Global History 10. A final grade of 85 or better in AP US History or a final grade of 90 or better in US History. An 85 or better on both the Global and US Regents Exam. Offered in the Spring semester only.

AP US Government and Politics is an intense, introspective course that focuses on the internal issues and workings of the United States Government. Beginning with the foundation of constitutional democracy and moving quickly into the modern era, this course will examine current events, modern trends, and public policy issues through the lens of the US Constitution and the ever-evolving interpretations therein. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit.

- This is a half year course which will constantly prepare students for the AP Exam in US government and Politics in May. This course is for seniors who are looking to stimulate their knowledge of political science.
- This course culminates in an AP Exam which could earn the student college credit based on their score. Topics include constitutional foundations, Federalism, The Bill of Rights, institutions of government, political parties, nominations, campaigns, elections, voting behavior, special interests, the economy, Federal budget, and Foreign Policy issues.
- This course will also satisfy the New York State senior level Participation in Government requirement.

Grade Taught: 12
NCAA Approved

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, Current Teacher Approval, Department Chairperson/Supervisor Approval

250Z Global History and Geography 9 (1 Credit)

This is a dynamic and challenging course. It develops and sharpens the tools needed to students to be self-directed learners as well as collaborative workers. High level performance and problem solving skills are taught. This course focuses on the reading of a wide array of primary source materials,

extensive writing activities and the development of high level conceptual thinking skills. Students will be exposed to a high degree of interdisciplinary English and historical activities. Also, students will be responsible for producing research projects. The overall intent of the course is to enforce the major concepts and themes that are needed to understand the connections which exist between the study of Global History and Geography and the complex interdependent global society in which they live. This program culminates in the Global Studies Regents Exam at the end of grade 10.

Grade Taught: 9
NCAA Approved

0251Z Global History and Geography 10 (1½ Credits)

Prerequisite: Global Studies 9

The program for the tenth grade is the second year of a two year Global studies course. This program focuses on the study of World History which requires an understanding of world cultures and civilizations, including the analysis of important ideas, social and cultural values, beliefs and traditions. This study also examines the human condition and the connections and interactions of people across time and space and the ways different people view the same event or issue from a variety of different perspectives. This course will concentrate on building skills necessary to pass the Global Studies Regents Exam at the end of the year.

Grade Taught: 10
NCAA Approved

0252 United States History and Government (1 Credit)

This is a chronologically organized course in U.S. History, with constitutional and legal issues developed. Emphasis is placed upon the study of industrial growth, foreign policy and research based writing. This course concludes in the US History Regents Examination.

Grade Taught: 11
NCAA Approved

0253 Economics (½ Credit)

Prerequisite: U.S. History and Government 11R

This is a senior course in economics and economic decision-making. This course includes the basic economic concepts and understanding which all people need to function effectively and intelligently as citizens and participants in the United States and the world.

Grade Taught: 12
NCAA Approved

0255 Public Policy - Criminal Justice (½ Credit)

This senior level course is designed to enable the students to understand how our criminal justice system works and relates to our day to day lives. The students will become more aware of their rights and responsibilities as citizens in a democracy. This course also offers a trip to Riverhead Jail. This will enable students to explore career opportunities within the Department of Corrections, law enforcement, and the courts. The trip will also enable each student to understand the negative dynamics of incarceration. The students will study the organization and function of the Federal, State and local police, court, and prison systems. Research or reaction papers are due each week.

Grade Taught: 12
NCAA Approved

0257 Personal Management (1 Credit)

Focus your energy and plan forward. Students will explore and create their own individual short and long-term goals for postsecondary life and identify specific skills needed to achieve these goals. Topics and activities in this course will promote career-ready acquisition of skills, attitudes, and knowledge which will enable students to increase achievement in school, at work and across all aspects of life. Essential components of effective personal management will be explored including time management, financial management, communication skills, interpersonal skills and organizational skills. These are transferable work skills such as customer service and employability skills that are necessary in worksites. This course may be scheduled at LCC for multiple periods in the fall or spring. It is a complement to the Work-based Learning program which includes on-site work experience with job-coaching support.

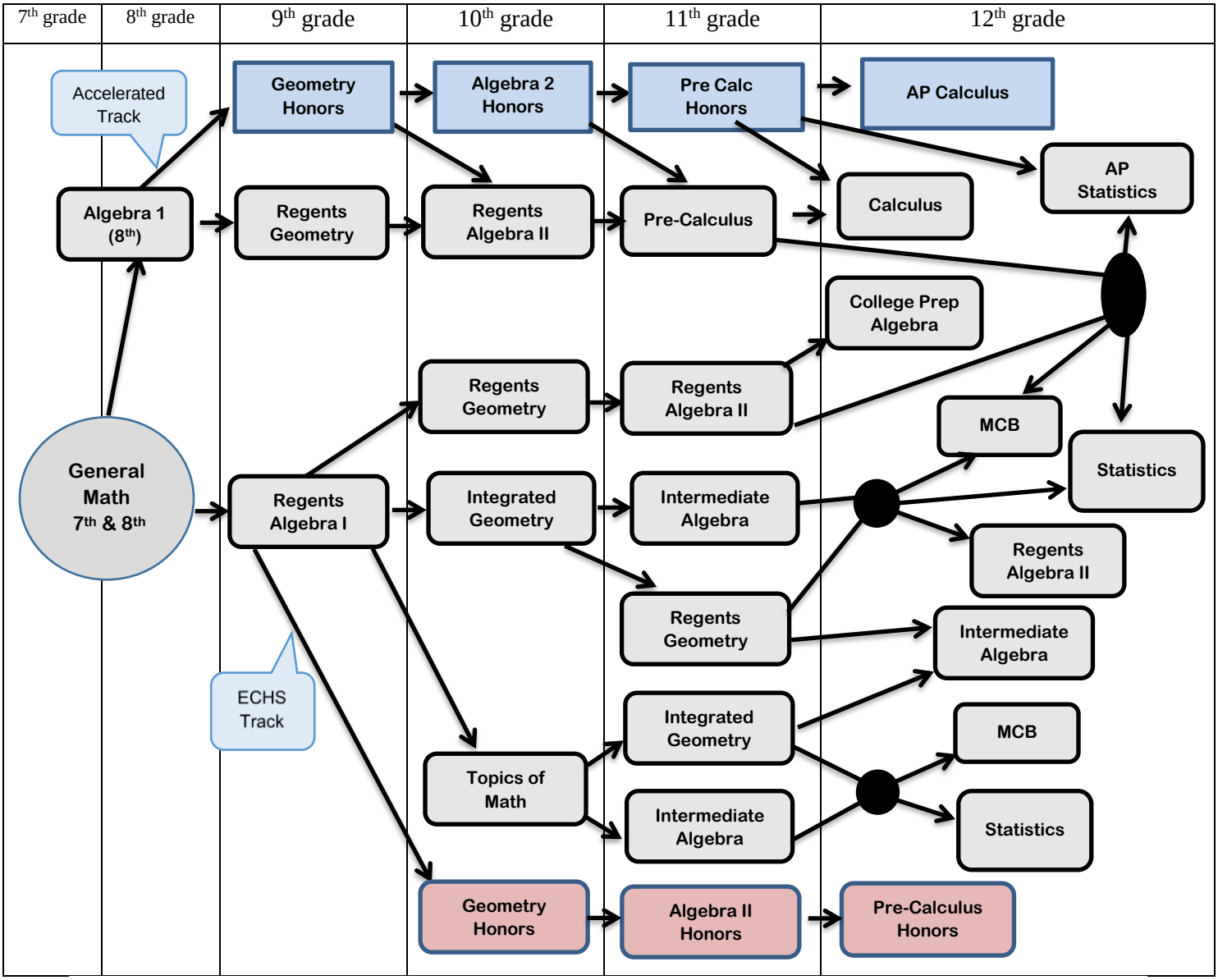
Grade Taught: 12
NCAA Approved

0258 Public Policy - Peers Reaching Out (½ Credit)

This senior level peer leadership course follows the New York State suggested syllabus through the community service model. Emphasis is placed on a skills for living curriculum, and participation in class activities. Topics include communication skills, decision making, civic involvement, interpersonal skills in real-world settings, and how public policy is formulated. Community service is required.

Grade Taught: 12

Mathematics Course Offerings



Flow chart shows possible sequences. See course description for detailed prerequisite.

The goal of the Longwood Mathematics Department is to provide a learning environment in which each student's ability is developed to its maximum potential.

The first administration of Algebra 1 Regents Exam, aligned to the NYS Next Generation Mathematics Learning Standards, will be administered to the Class of 2027 in June 2024.

All other students are required to pass the Algebra 1 Regents Examination. Students who pass the Common Core Geometry and Common Core Algebra 2 Regents Exams may be eligible to receive a Regents Diploma with Advanced Designation. All students are required to have a graphing calculator.

Regents Sequence Courses

Mathematics Core Curriculum

In September 2023, Longwood High School adopted the NYS Next Generation Mathematics Learning Standards, beginning with the incoming class of 2027. All courses will address the eight Standards for Mathematical Practice, as well as 21st Century skills. Each course will culminate in a locally developed final examination or a New York State Regents examination.

0337 Algebra 1 (1 Credit)

Prerequisite: Successful completion of 8th grade math.

This course includes an alternate day lab. Students will take the NGSS Algebra 1 Regents exam upon completion of this course.

Grade Taught: 9
NCAA Approved

0314 Topics of Math (1 Credit)

This course is designed for students who need extra skill development and support in essential algebraic concepts. The course will include, but not limited to, units on linear equations and inequalities, functions and coordinate geometry, polynomial operations, operations with real numbers and expressions, systems of linear equations and inequalities, and data analysis. The final exam for this course is locally developed. Some students may be required to take the Common Core Algebra I Regents Exam in January and/or the NGSS Algebra 1 Regents Exam in June.

Grade Taught: 10

0305 Geometry (1 Credit)

Prerequisite: Successful completion of Algebra 1 with a minimum score of 75 and a minimum score of 70 on the Common Core Algebra 1 Regents examination.

Students will take the Common Core Geometry Regents Exam upon completion of this course.

Grades Taught: 9 – 10
NCAA Approved

0305H Geometry Honors (1 Credit – Honors)

Prerequisite: Successful completion of 8th grade Algebra 1, a passing score on the Common Core Regents Examination and HS Department Chair approval <u>OR</u> a minimum score of 95 in 9th grade Common Core Algebra 1 and HS Department Chair approval.

Students will take the Common Core Geometry Regents Exam upon completion of this course.

Grade Taught: 9
NCAA Approved

0315 Integrated Geometry (1 Credit)

Prerequisite: Completion of the Algebra 1 course with a score between 65 – 74 and a Common Core Algebra 1 Regents Examination score of 69 or lower.

This course is designed for students who need extra skill development and support in essential geometric concepts. The final exam for this course is locally developed. Students will have the option to take Geometry in 11th grade upon completion of this course.

Grade Taught: 10

0332I Algebra Intensive

Designed for 11th – 12th grade students who have not earned Regents exam and/or course credit to satisfy graduation requirements. Students will take the Common Core Algebra 1 Regents Exam or the NGSS Algebra 1 Regents Exam during the course.

0333 Algebra 2 (1 Credit)

Prerequisite: Successful completion of Geometry or Intermediate Algebra, and a passing score on both the Common Core Algebra 1 and Geometry Regents Exams.

Students will take the Common Core Algebra 2 Regents Exam upon completion of this course.

Grades Taught: 10 – 12
NCAA Approved

0333H Algebra 2 Honors (1 Credit - Honors)

Prerequisite: Successful completion of Geometry Honors, <u>OR</u> a 95 or higher in Geometry and a teacher recommendation.

Students will take the Common Core Algebra 2 Regents Exam upon completion of this course.

Grades Taught: 10 – 11
NCAA Approved

Post Regents Curriculum

0340 College Prep Algebra (1 Credit)

Prerequisite: Successful completion of Algebra 2.

This course is an alternative to pre-calculus and is intended for the college-bound student interested in continuing higher level math. Students must successfully complete the Algebra 2 course to enroll. Emphasis will be placed on advanced topics of algebra, analytic geometry, and trigonometry, together with their applications in society.

Grades Taught: 11 – 12
NCAA Approved

0326 Pre-Calculus (1 Credit)

Prerequisite: Successful completion of Algebra 2 and passing scores on the Common Core Algebra 1, Geometry and Algebra 2 Regents examinations.

This pre-calculus course is based on a locally prepared syllabus designed to extend the New York State Mathematics Core Curriculum. Emphasis is placed on preparing the student for the study of college-level mathematics. Topics will include advanced algebra, function theory, analytic geometry, problem solving, and limits and derivations. The final examination for this course is locally developed. For an additional fee, students have the option to take this course for four college credits through the Suffolk County Community College's Beacon program.

Grades Taught: 11 – 12
NCAA Approved
SCCC Beacon Approved

0326H Pre-Calculus Honors (1 Credit - Honors)

Prerequisite: Successful completion of Algebra 2 Honors and teacher recommendation.

This pre-calculus course is based on a locally prepared syllabus designed to extend the New York State Mathematics Core Curriculum. Emphasis is placed on preparing students for the Advanced Placement Calculus AB course the following year. Topics will include advanced algebra, function theory, sequences and series, analytic geometry and trigonometry, limits, derivatives, and problem solving. The final examination for this course is locally developed. For an additional fee, students have the option to take this course for four college credits through Suffolk County Community College's Beacon Program.

Grade Taught: 11
NCAA Approved
SCCC Beacon Approved

0323 Calculus (1 Credit - Honors)

Prerequisite: Successful completion of Pre-Calculus or Pre-Calculus Honors, or Algebra II Honors in grade 11, and passing scores on the Common Core Algebra 1, Geometry and Algebra 2 Regents examinations.

This course is based on a locally prepared syllabus that closely mirrors that of AP Calculus AB. Topics in analytical geometry, as well as elementary differential & integral calculus will be addressed. For an additional fee, students have the option to take this course for four college credits through Suffolk County Community College's Beacon Program.

Grade Taught: 12
NCAA Approved
SCCC Beacon Approved

0324 AP Calculus AB (1 Credit - Advanced Placement)

Prerequisite: Teacher recommendation and a final grade of 85 or better in Pre-Calculus Honors.

AP Calculus AB is a contemporary college calculus course following the ETS Calculus AB syllabus. A high level of sophistication will be maintained with regard to content, approach and evaluation. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. For an additional fee, students have the option to take this course for four college credits through Suffolk County Community College's Beacon Program.

Grade Taught: 12
NCAA Approved
SCCC Beacon Approved

Algebra 2 Alternatives

0316 Intermediate Algebra (1 Credit)

Prerequisite: Successful completion of Algebra 1 and/or Topics of Math and Geometry and/or Integrated Geometry.

This course will strengthen the algebra skills before taking Algebra 2. Topics include algebra, logarithms, solving multiple equations and applications and other review topics. The final examination is locally developed.

Grades Taught: 11 – 12
NCAA Approved (.5 Credit)

0307 Math for the College Bound (1 Credit)

Prerequisite: Successful completion of Intermediate Algebra or Algebra 2.

This course is for the college bound senior who plans to major in liberal arts in college and would like to continue with the study of mathematics. It is designed to bridge the gap between high school math and freshman college math. Topics covered will include logic, set theory, probability, numeration, mathematical and geometric systems, sequences and series, probability and statistics. The final examination for this course is locally developed. This course will utilize the ALEKS program to prepare students for college level math courses.

Grade Taught: 12
NCAA Approved (.5 Credit)

0310 Statistics (1 Credit)

Prerequisite: Successful completion of Algebra 1 or Topics of Math.

This course will provide an introduction to the important topics of statistics. It will emphasize a data analysis approach, focusing on statistical thinking behind data gathering, and interpretation. By engaging students in the curricular objectives, students will gain numerical literacy skills, become more discerning consumers of statistics, and direct their focus at what the numbers from surveys, election polls, and medical studies are really saying.

Grade taught: 12 (*Grade 11 students may take this if it satisfies a fourth unit of mathematics.)*
NCAA Approved

0318 AP Statistics (1 Credit – Advanced Placement)

Prerequisites: Successful completion of Algebra 2 and teacher recommendation.

Students majoring in engineering, psychology, sociology, health sciences, mathematics, science and business will typically need to take a college statistics course. This course will be equivalent to a first course in statistics (non-calculus based) that one would take in college. Students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students explore data by observing patterns and departures from patterns, plan a study by deciding how and what to measure, anticipate patterns by producing models using probability and simulation and confirm models by using statistical inference. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. For an additional fee, students have the option to take this course for three college credits through Suffolk County Community College's Beacon Program.

Grades Taught: 11 – 12
NCAA Approved
SCCC Beacon Approved

COMPUTER ELECTIVES

0304 Introduction to Computer Science (1 Credit)

Students will learn the basics of computer programming along with the basics of computer science. The course will emphasize computational thinking and help develop the students' ability to solve complex problems. This course covers the basic building blocks of programming along with other central elements of computer science. It gives a foundation in the tools used in computer science and prepares students for further study in computer science, including AP Computer Science Principles and AP Computer Science A courses.

Grades Taught: 9 – 12

0331 AP Computer Science Principles (1 Credit - Advanced Placement)

Prerequisite: Successful completion of Algebra 1 and a passing score on the Common Core Algebra 1 Regents Exam.

Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on

this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. For an additional fee, students have the option to take this course for three college credits through Suffolk County Community College's Beacon Program.

Grades Taught: 11 – 12
NCAA Approved
SCCC Beacon Approved

0334 AP Computer Science A (1 Credit - Advanced Placement)

Prerequisite: Suggested successful completion of Computer Science Principles or current enrollment in Algebra II.

A rigorous hands-on course that helps students develop advanced computer programming skills. Students will design, develop and write applications and programs using the Java Language. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. For an additional fee, students have the option to take this course for three college credits through Suffolk County Community College's Beacon Program.

Grades Taught: 11 – 12
NCAA Approved
SCCC Beacon Approved

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, Current Teacher Approval, Department Chairperson/Supervisor Approval

0366C HS Math (1 Credit)

This is a Pre-Algebra course to increase students' foundational mathematics skills and prepare them for Algebra I by covering a variety of topics, such as properties of rational numbers (i.e., number theory), ratio, proportion, estimation, exponents and radicals, the rectangular coordinate system, formulas, and solving first-degree equations and inequalities.

Grades Taught: 9 – 12

0356 Algebra 1 (1 Credit)

Prerequisite: Successful completion of 8th grade math.

Students will take the NGSS Algebra 1 Regents exam upon completion of this course.

Grade Taught: 9
NCAA Approved

0363 Topics of Math (1 Credit)

This course is designed for students who need extra skill development and support in essential algebraic concepts. The course will include, but not limited to units on linear equations and inequalities, functions and coordinate geometry, polynomial operations, operations with real numbers and expressions, systems of linear equations and inequalities and data analysis. The final exam for this course is locally developed. Some students may be required to take the Common Core Algebra 1 regents in January and/or the NGSS Algebra 1 Regents in June.

Grade Taught: 10

0367 Integrated Geometry (1 Credit)

Prerequisite: Successful completion of the Algebra 1 and a passing score on the Common Core Algebra 1 Regents Examination.

This course is designed for students who need extra skill development and support in essential geometric concepts. The final exam for this course is locally developed. Students will have the option to take Geometry in 11th grade upon completion of this course.

Grade Taught: 10

0358I Algebra Intensive

Designed for 11th and 12th grade students who have not earned Regents Exam credit to satisfy graduation requirements. Students will take the Common Core or the NGSS Algebra 1 Regents Exam during this course. *Students will be placed in this course based on academic standing.*

0351 Intermediate Algebra (1 Credit)

This course will strengthen the Algebra skills before taking Math for the College Bound. Topics include Algebra, logarithms, solving multiple equations and applications and other review topics. The final examination is locally developed.

Grade Taught: 11 – 12
NCAA Approved (.5 Credit)

0357 Fundamentals of Mathematics (1 Credit)

Prerequisite: Successful completion of Algebra 1

Fundamentals of Mathematics is a full-year course that demonstrates the many practical applications of math in everyday life. The topics in this course are designed to guide students in building a strong foundation in logical thinking and problem solving that will enable them to make good decisions concerning matters of money and finance in their daily lives.

Grade Taught: 12

0353 Math for the College Bound

Prerequisite: Successful completion of Algebra 1

This course is for the college bound senior who plans to major in liberal arts in college. The topics in this course are designed to guide students in building a strong foundation of arithmetic, algebraic, and geometric skills. The final examination for this course is locally developed.

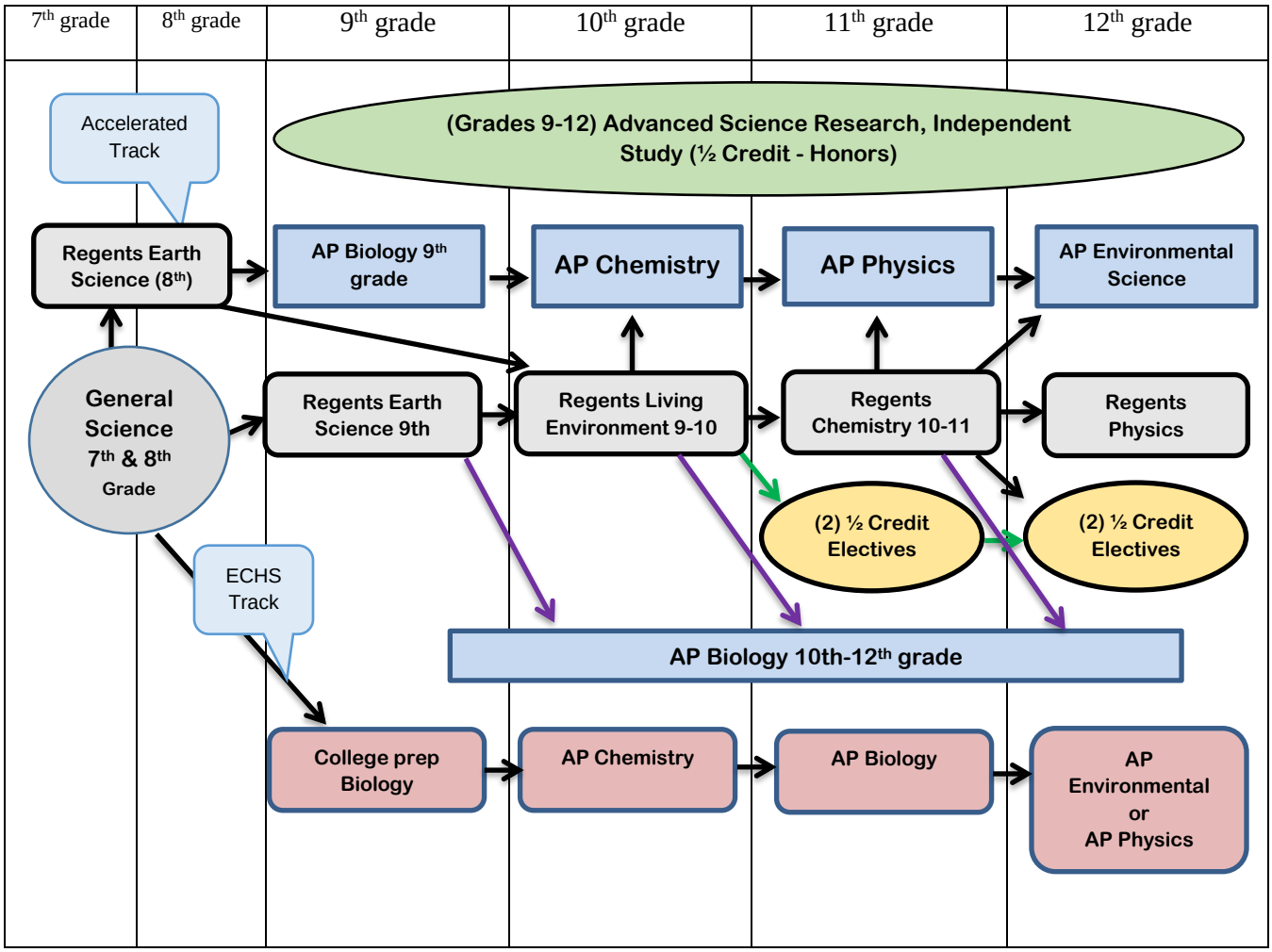
Grade Taught: 12

0354 Intro to Computer Programming

Prerequisite: Successful completion of Algebra 1

A hands on course that helps student develop an understanding of computer science, computational thinking, and apply programming principles. Students use creativity to design and develop programs. Programming applications may include but are not limited to Scratch, Python, Java and HTML. Projects are required for this course.

Science Course Flowchart



**** Flowchart shows possible sequences. See course descriptions for detailed prerequisites***

Elective Courses **	
Advanced Zoology	Human Ecology
Animal and Plant Behavior	Laboratory Techniques
Astronomy	Marine Science
Biological Adaptations	Meteorology
Science Honors Research Seminar	Anatomy and Physiology
	Geology

Students enrolled in a science course with a lab or a double period science are not able to simultaneously enroll in additional science elective courses.

Science Course Offerings

Science relies on logic and creativity. It is a way of knowing an intellectual and social process that applies human intelligence to explaining how the world works. Scientific explanations are developed using both observations and what people already know about the world. All scientific explanations are tentative and subject to change. Good science is a combination of questioning, experiments, evidence, logical argument, ingenuity, and skeptical peer review. Understanding the scientific view of the natural world is an essential part of personal, societal, and ethical decision making. Scientific literacy involves internalizing the scientific critical attitude so that it can be applied in everyday life.

The courses offered by the Longwood Science Department are broken into two groups. The first group is composed of Regents and Advanced Placement laboratory courses in which students can earn one credit in science. The second group consists of elective courses that have been developed locally which can earn one-half credit depending on the course. Students must earn three credits in science. Two of the credits must be earned by completing two Regents laboratory courses. One of the credits of study must come from the Physical Setting represented by Earth Science, Chemistry and/or Physics. The second credit must be from the Living Environment represented by Biology. All students enrolled in laboratory classes must meet the State-mandated laboratory requirement before sitting for a science Regents Exam. This requirement includes a minimum of 1200 minutes of hands-on laboratory experience with submission of satisfactory lab reports. All students must pass one Regents Exam to earn a Regents Diploma. The passing grade for all Regents Exams is 65. For those students interested in earning a Regents Diploma with Advanced Designation, a minimum of two Regents Exams must be passed, with at least one from The Living Environment and one from the Physical Setting.

Science Lab Courses

All students enrolled in laboratory classes must meet the state mandated laboratory requirements before sitting for a Science Regents Exam. This requirement includes a minimum of 1200 minutes of hands-on laboratory experience with submission of satisfactory lab reports.

0401 Earth Science – Physical Setting (1 Credit)

This laboratory course is based on the activities and content specified in the New York State Earth Science Core Curriculum and the NYS Next Generation Science Standards which encompasses the basic concepts of astronomy, meteorology, and geology. The physical events and features of the Earth and its environment are examined as students study earth motions, stellar cycles, weather, climate, rocks, minerals, erosion, landscapes, earthquakes, volcanoes, plate tectonics, and the fossil record.

Students demonstrate their proficiency through examinations, laboratory activities, homework, projects, and class participation. This course concludes with the New York State Regents Examination in Earth Science.

Grade Taught: 9
Meets Physical Science Requirement
NCAA Approved

0405 The Living Environment (1 Credit)

This laboratory course is based on the New York State Living Environment Core Curriculum and the NYS Next Generation Science Standards. Topics of study include unity and diversity among living things, anatomy and physiology, reproduction and development, genetics, evolution, ecology, and the impact of human activities on the physical and living environment. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects, and class participation. This course concludes with the New York State Regents Examination in The Living Environment.

Grades Taught: 10 – 11 and Grade 9 accelerated students
Meets Living Environment Requirement
NCAA Approved

0409 Chemistry - Physical Setting (1 Credit)

Prerequisite: Successful completion of The Living Environment.

This is a college preparatory course. The curriculum is laboratory based and follows the activities and content specified in the New York State Chemistry Core Curriculum and the NYS Next Generation Science Standards. Topics of study include matter and energy, atomic structure, bonding, the periodic table, acid-base theories, redox and electrochemistry, organic chemistry, applications of chemical principles, and nuclear chemistry. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects and class participation. This course concludes with the New York State Regents Examination in Chemistry.

Grades Taught: 10 – 12
Meets Physical Science Requirement
NCAA Approved

0411 Physics - Physical Setting (1 Credit)

Prerequisite: Successful completion of Regents Chemistry.

This laboratory course is based on the activities and content specified in the New York State Physics Core Curriculum and the NYS Next Generation Science Standards. Topics of study include mechanics,

energy, electricity and magnetism, wave phenomena, modern physics, and motion. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects, and class participation. This course concludes with the New York State Regents Examination in Physics.

Grades Taught: 11 – 12
Meets Physical Science Requirement
NCAA Approved

0412 Advanced Placement Chemistry (1 Credit - Advanced Placement)

Prerequisite: Final grade of 85 or better in Earth Science and Living Environment and an 85 or better on each of the corresponding Regents Exams. Current AP Biology students must have a final grade of 80 or better in the course and 85 or better on each of the corresponding Regents Exams. Teacher recommendation and a summer assignment required.

This is a laboratory college-level course. Topics covered by this course are structure of matter, states of matter, and descriptive chemistry. Reactions are also included with the topics of kinetics, equilibrium, and basic thermodynamics. This course covers material in a much greater depth than Regents Chemistry. Satisfactory completion of a summer assignment is required in order to take this class. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects, and class participation. A midterm examination will be given, and all students will take the Chemistry Regents Examination in June. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. For an additional fee, students have the option to take this course for four college credits through the Suffolk County Community College's Beacon program.

Grades Taught: 12 or 10 and 11 with recommendation of the Department Chairperson
Meets Physical Science Requirement
NCAA Approved
SCCC Beacon Approved

0402 Advanced Placement Biology (1 Credit Advanced Placement) – For Grade 9 accelerated students

Prerequisite: For 8th grade accelerated students, a final grade of 90 or better in Earth Science, a 90 or better on the June Regents Exam, and teacher recommendation. It is strongly recommended that students considering this course earn a minimum grade of 95 in Earth Science, a minimum grade of 95 on the Earth Science Regents examination and demonstrate their scholarship in all their academic subjects.

This is an extremely rigorous college level, laboratory course which meets for a double period every day. Some major topics of concern will include cell structure, biochemistry, photosynthesis, respiration

cell division, nature of the gene, human and plant studies, heredity, evolution, ecology, and behavior. This course covers material in a much greater depth than The Living Environment course and requires students to complete extensive amounts of work outside of class. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects and class participation. A midterm examination and the Regents exam in The Living Environment will both be given. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. This course is two full periods.

Grades Taught: 9
Meets Living Environment Requirement
NCAA Approved

0403 Advanced Placement Biology (1 Credit Advanced Placement)

Prerequisite: For grades 10-12, students need a final grade of 90 or better in Earth Science, a 90 or better on the Regents Exam and a teacher recommendation. Satisfactory completion of a summer assignment is required in order to take this class.

This is an extremely rigorous college level, laboratory course which meets for a double period every other day. Some major topics of concern will include cell structure, biochemistry, photosynthesis, respiration cell division, nature of the gene, human and plant studies, heredity, evolution, ecology, and behavior. This course covers material in a much greater depth than The Living Environment course and requires students to complete extensive amounts of work outside of class. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects and class participation. A midterm examination and the Regents exam in The Living Environment will both be given. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. Preference will be given to grade 11 and 12 students who have completed Chemistry.

Grades Taught: 10 – 12
Meets Living Environment Requirement
NCAA Approved

0435 Advanced Placement Physics 1* (1 Credit - Advanced Placement)**Formerly - AP Physics B: Algebra-Based*

Prerequisite: A final grade of 85 or better in Chemistry and an 80 or above on the Chemistry Regents exam. AP Chemistry students must have a final course grade of 80 or better and an 80 or above on the Chemistry Regents exam. It is suggested that students have scored an 85 or better on the Algebra 1 Regents exam. Satisfactory completion of a summer assignment and teacher recommendation.

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students build their understanding of physical models as they explore and solve problems in these content areas: Kinematics, Force and Translational Dynamics, Work, Energy, and Power, Linear Momentum, Torque and Rotational Dynamics, Energy and Momentum of Rotating Systems, Oscillations, and Fluids.Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects, and class participation. Satisfactory completion of a summer assignment is required in order to take this class. A midterm examination will be given, and in June, all students will take the Physics Regents Examination. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. For an additional fee, students have the option to take this course for four college credits through the Suffolk County Community College's Beacon program.

Grades Taught: 11 – 12
Meets Physical Science Requirement
NCAA Approved
SCCC Beacon Approved

0415 Advanced Placement Environmental Science (1 Credit - Advanced Placement)

Prerequisite: A final grade of 80 or better in Earth Science and Living Environment. An 85 or better on the Living Environment Regents Exam. Successful completion of chemistry. A teacher recommendation and a summer assignment are required.

This is a college level laboratory course that aims to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course aims to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects, and class participation. Satisfactory completion of a summer assignment is required in order to take this class. A midterm examination and a school final examination will be given. Students taking this course must take the Advanced Placement examination in May (fee required). Colleges may grant credit to students performing successfully on this test. The syllabus for this course has been approved by the College Board's Advanced Placement audit. For an additional fee, students have the option to take this course for four college credits through the Suffolk County Community College's Beacon program. *Preference will be given to grade 12 students.*

Grades Taught: 11 – 12
NCAA Approved
SCCC Beacon Approved

0416 College-prep Biology – Early College High School (ECHS)

Prerequisite: This laboratory course is for ninth-grade students selected for the Early College High School program (ECHS).
The curriculum is laboratory-based and covers the content of the New York State living environment core curriculum as well as preparatory topics of AP Biology and AP Chemistry. This course concludes with the New York State Regents Examination in the Living Environment.

Grade taught: 9

Half -Year Elective Courses

0417 Marine Science (½ Credit)

Prerequisite: Successful completion of The Living Environment or Earth Science.

In this course students will study the physical characteristics of the oceans, life that lives in these vast areas and how man in the future will utilize the oceans of the world for the benefit of mankind. Students demonstrate their proficiency through topical investigations, class discussion and participation, quarterly examinations and taking a final examination. This is a one-semester course.

Grades Taught: 11 – 12
NCAA Approved

0434 Anatomy and Physiology (½ Credit)

Prerequisite: Successful completion of The Living Environment.

Anatomy and Physiology is the study of the human body, its tissues, organs and organ systems. This course is intended for students considering a career in the health field or who are curious about the structures and functions of the human body. Among the topics that will be covered are the cellular basis of life, anatomical terminology, tissues, organs, organ systems, homeostasis, detection and treatment of disease, as well as current developments in science that directly relate to the fields of anatomy and physiology. Students demonstrate proficiency through topical investigations, class discussion, examinations, class participation and completion of a final exam. This is a one semester course.

Grades Taught: 11 – 12
NCAA Approved

0419 Human Ecology (½ Credit)

Prerequisite: Successful completion of The Living Environment or Earth Science.

Over population, famine, global warming, ozone depletion, habitat destruction, extinction, depletion of natural resources, and environmental degradation are but a few of the issues that face humanity as we enter into the next millennium. Over the past thirty years, concerned people have proposed solutions to these seemingly insurmountable problems. In this course, students will examine both the problems and the possible solutions to the issues threatening our environment. Students demonstrate proficiency through topical investigations, class discussion, examinations, class participation and completion of a research project.
Grades Taught: 11 – 12
NCAA Approved

0420 Biological Adaptations (½ Credit)

Prerequisite: Successful completion of The Living Environment.

The biological world is rich with diversity. Life in some form can be found in nearly every conceivable environment on the planet earth. This diversity is in part the result of organisms adapting to exploit new environments. Through the use of video tape, interactive media, scientific publications and class discussion, the student will examine many examples of the process of adaptation. The course will stress both ecological and evolutionary models to explain how and why the process of adaptation occurs. Students demonstrate proficiency through topical investigations, class discussion, examinations, class participation and completion of a research project.

Grades Taught: 11 – 12
NCAA Approved

0421 Advanced Zoology (½ Credit)

Prerequisite: Successful completion of The Living Environment.

This course is designed for students who think that they may be interested in planning a career in medicine or veterinary sciences. Through dissection, both simple invertebrates and complex vertebrates will be studied. The earthworm, frog, grasshopper, snake, and pigeon are among the animals that will be studied. Students demonstrate their proficiency through required dissections, class discussion and participation, practical exams, written papers and a final examination. This is a one semester course.

Grades taught: 11 – 12
NCAA Approved

0424 Animal and Plant Behavior (½ Credit)

Prerequisite: Successful completion of The Living Environment.

This course will cover how the behavior of plants and animals aid in the survival of the organisms. Biological clocks, courtship activities, claiming territory, varying amounts of stimuli such as light, food, and temperature are some of the topics that are covered in this course. Students demonstrate their proficiency through topical investigations, class discussion and participation, quarterly examinations, and completing research projects. This is a one-semester course.

Grades Taught: 11 – 12
NCAA Approved

0425 Astronomy (½ Credit)

Prerequisite: Successful completion of The Living Environment or Earth Science.

This course will explore the nature of the universe. Using the earth as a starting point, this course will explore the moon, sun, planets, stars, constellations, nebulae, galaxies and black holes. The study will include topics from ancient to modern astronomers and incorporate current events in astronomy. Students demonstrate proficiency through topical investigations, class discussion, examinations, class participation, completion of a research project and completion of a final exam.

Grades Taught: 11 – 12
NCAA Approved

0426 Meteorology (½ Credit)

Prerequisite: Successful completion of The Living Environment.

Blizzards, hurricanes, thunderstorms, tornadoes. In this course, both nature's violent outbursts, and the more mundane day-to-day atmospheric conditions will be explored. Solar and terrestrial radiation, moisture and atmospheric stability, forms of condensation and precipitation, air pressure and winds, air masses, and weather analysis and forecasting will be covered in this course. Students demonstrate their proficiency through topical investigations, class discussion and participation, quarterly examinations, keeping daily weather logs, and taking a final examination. This is a one-semester course.

Grades Taught: 11 – 12
NCAA Approved

0427 Laboratory Techniques (½ Credit)

Prerequisite: Successful completion of The Living Environment.

This laboratory course samples the methods and procedures used by forensic scientists in determining the facts surrounding a crime. Typically, it includes the disciplines of biology, chemistry and physics but just about any area of science could be called into question in a court of law. Among the topics that will be covered are DNA analysis, personal identification from prints and traces, chromatography and crime scene reconstruction. Students demonstrate proficiency through topical investigations, class discussion, examinations and class participation. This is a one semester course.

Grades Taught: 11 – 12
NCAA Approved

0429 Advanced Science Research (½ Credit - Honors)

Prerequisite: Interest in research, successful completion of science courses and teacher recommendation.

This independent study course will further develop research skills necessary for the student's participation in national competitions, as well as college level laboratory and research work. A major component of this course will require the student to work with local/national research laboratories. Students will be scheduled into the Science Research Seminar class and will work on advanced science research projects independently under the direct supervision of the teacher. Students demonstrate their proficiency through designing and completing their own projects and by the successful entering of recognized science competitions. This course can be taken more than once, however not more than ½ credit can be awarded per school year or per project.

Grades Taught: 9 – 12
NCAA Approved

0430 Geology (½ Credit)

Prerequisite: Successful completion of The Living Environment.

Archaeology, fossil record, volcanoes, earthquakes, rocks, minerals, gemstones, groundwater, landscapes, topographic maps and the ways geologic processes can affect human activity are the main topics in this Geology course. Students will explore in more depth the geology topics introduced in Earth Science. Students demonstrate proficiency through topical investigations, class discussion, class participation, quarterly exams, projects, research and taking a final examination.

Grades Taught: 11 – 12
NCAA Approved

0432 Biology Intensive

Prerequisite: Successful completion of The Living Environment laboratory requirement.

This semester-length course is designed for students that have met the laboratory requirement in Biology but require additional instruction to successfully complete the Living Environment Core Curriculum. Students will take this course in the fall semester and sit for the Living Environment Regents Examination in January. Course credit for biology may be earned by meeting all assignment requirements and passing the Biology Regents Examination administered at the end of the semester. For students that have already passed the Biology course and earned one credit, no additional credit can be awarded.

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, Current Teacher Approval, Department Chairperson/Supervisor Approval

0460 The Living Environment (1 Credit)

This laboratory course is based on the New York State Living Environment Core Curriculum. Topics of study include unity and diversity among living things, anatomy and physiology, reproduction and development, genetics, evolution, ecology, and the impact of human activities on the physical and living environment. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects, and class participation. This course concludes with the New York State Regents Examination in The Living Environment.

Grade Taught: 9
Meets Living Environment Requirement
NCAA Approved

0450 Earth Science Physical Setting (1 Credit)

This laboratory course is based on the activities and content specified in the New York State Earth Science Core Curriculum which encompasses the basic concepts of astronomy, meteorology, and geology. The physical events and features of the Earth and its environment are examined as students study earth motions, stellar cycles, weather, climate, rocks, minerals, erosion, landscapes, earthquakes, volcanoes, plate tectonics, and the fossil record. Students demonstrate their proficiency through examinations, laboratory activities, homework, projects, and class participation. This course concludes with the New York State Regents Examination in Earth Science.

Grade taught: 10
Meets Physical Science Requirement
NCAA Approved

0452 Astronomy (½ Credit)

Prerequisite: Successful completion of The Living Environment or Earth Science.

This course will explore the nature of the universe and humanity's place in it. Using the earth as a starting point, this course will explore the moon, sun, planets, stars, constellations, nebulae, galaxies, and even the ever-intriguing black holes. Students demonstrate proficiency through topical investigations, class discussion, examinations, class participation and completion of a research project.

Grades Taught: 11 – 12
NCAA Approved

0456 Laboratory Techniques (½ Credit)

Prerequisite: Successful completion of The Living Environment or Earth Science.

This laboratory course samples the methods and procedures used by forensic scientists in determining the facts surrounding a crime. Typically, it includes all disciplines of biology, chemistry, and physics but just about any area of science could be called into question in a court of law. Among the topics that will be covered are DNA analysis, personal identification from prints and traces, chromatography, and crime scene reconstruction. Students demonstrate proficiency through topical investigations, class discussion, examinations, class participation and completion of a research project.

Grades Taught: 11 – 12
NCAA Approved

0461 Meteorology (½ Credit)

In this course, both nature's violent outbursts and the more mundane day-to-day atmospheric conditions will be explored. Solar and terrestrial radiation, moisture and atmospheric stability, forms of condensation and precipitation, air pressure and winds, air masses, and weather analysis and forecasting will be covered in this course. Students demonstrate their proficiency through topical investigations, class discussion and participation, quarterly examinations, keeping daily weather logs, and taking a final examination. This is a one semester-course.

Grades Taught: 11 – 12
NCAA Approved

0462 Human Ecology (½ Credit)

Prerequisite: Successful completion of The Living Environment or Earth Science.

Over population, famine, global warming, ozone depletion, habitat destruction, extinction, depletion of natural resources, and environmental degradation are but a few of the issues that face humanity as we enter into the next millennium. Over the past thirty years, concerned people have proposed solutions to these seemingly insurmountable problems. In this course, students will examine both the problems and the possible solutions to the issues threatening our environment, including community service projects. Students demonstrate proficiency through topical investigations, class discussion, examinations, and class participation.

Grades Taught: 11 – 12
NCAA Approved

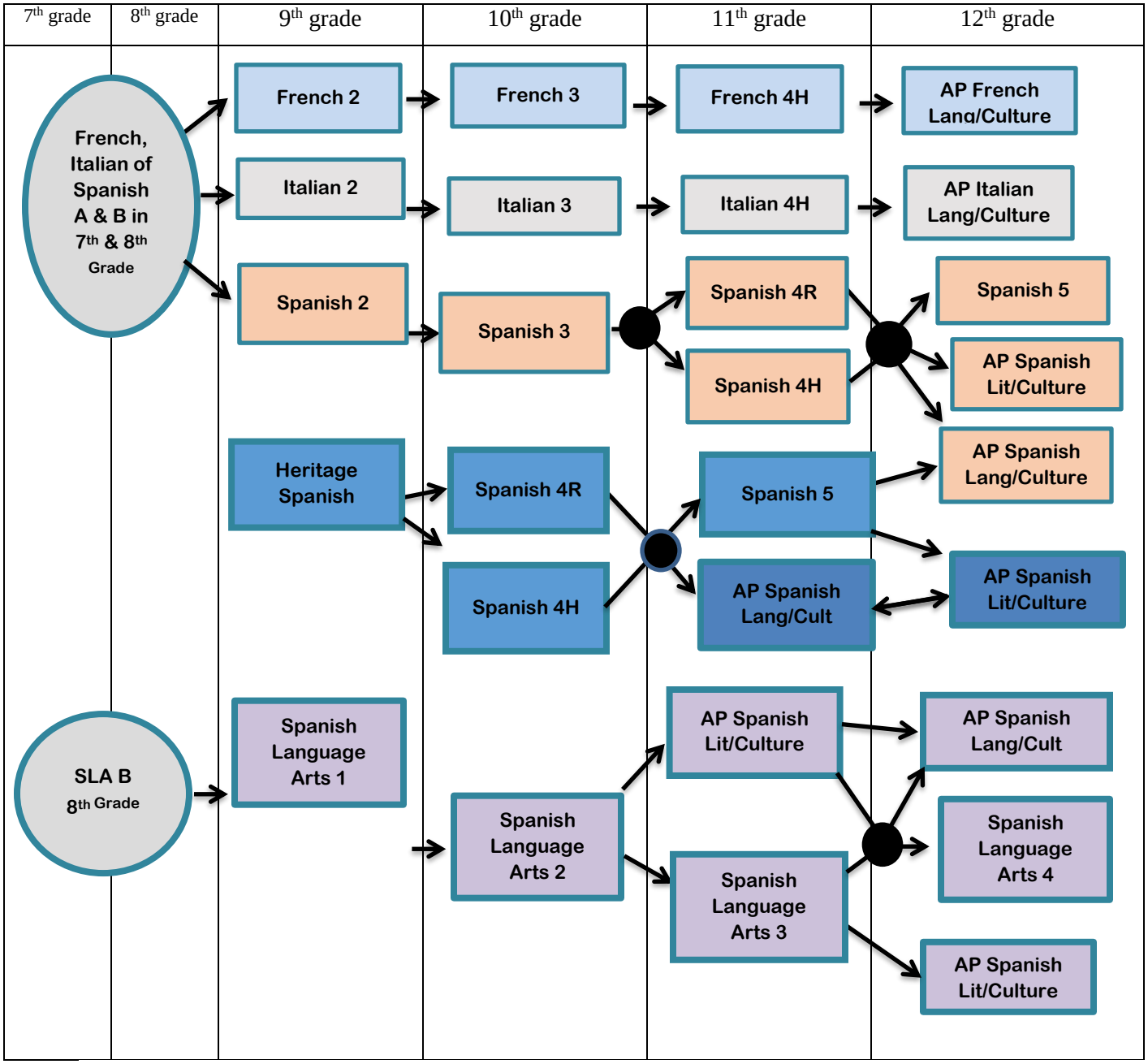
0465 Marine Science (½ Credit)

Prerequisite: Successful completion of The Living Environment or Earth Science.

In this course students will study the physical characteristics of the oceans, life that lives in these vast areas, and how man in the future will utilize the oceans of the world for the benefit of mankind. Students demonstrate their proficiency through topical investigations, class discussion and participation, quarterly examinations and taking a final examination. This is a one-semester course.

Grades Taught: 11 – 12
NCAA Approved

World Languages Course Offerings



**** Flowchart shows possible sequences. See course descriptions for detailed prerequisites***

The primary goal of language study is to enable students to communicate with native speakers of a language other than English and gain an understanding of various cultures. Students will develop skills necessary to be able to socialize, to provide and acquire information, to express personal feelings and opinions, and to persuade others to adopt a course of action. Students may apply the skills acquired in their language studies to other academic areas.

The Honors Program is designed for the above average student who has well-developed thinking and problem solving skills.

New York State Seal of Biliteracy

The New York State Seal of Biliteracy (NYSSB) recognizes high school graduates who have attained a high level of proficiency in listening, speaking, reading, and writing in one or more languages, in addition to English. The intent of the NYSSB is to encourage the study of languages; identify high school graduates with language and biliteracy skills for employers; provide universities with additional information about applicants seeking admission; prepare students with twenty-first century skills; recognize the value of foreign and native language instruction in schools; and affirm the value of diversity in a multilingual society. For additional information please contact your guidance counselor or the World Languages Department Chairperson.

COURSE TITLES

0502 French 1R
0512 Italian 1R
0522 Spanish 1R
(1 Credit)

In the first year, the student is introduced to the language through listening, speaking, reading and writing exercises. Selected dialogues and readings pertinent to the interest level of the students are used to introduce the vocabulary and the speech pattern drills. Practice and communicative techniques stress correct pronunciation, comprehension, and conversation within the scope of the material covered. The culture of France, Francophone countries, Spain, Italy, and Latin America is introduced.

Grades Taught: 9 – 12
NCAA Approved

0504 French 2R
0514 Italian 2R
0524 Spanish 2R
(1 Credit)

Prerequisite: Successful Completion of Language 1R.

During the second year of language learning, the student continues to develop his/her listening, reading, and writing skills. There is continued emphasis on communication. Cultural information is integrated throughout the course content.

Grades Taught: 9 – 12
NCAA Approved

0506 French 3R
0516 Italian 3R
0526 Spanish 3R
(1 Credit)

Prerequisite: Successful Completion of Language 2R.

During this year, the student develops further in comprehension and conversation. There is also an increased emphasis on reading and writing. Supplementary reading may include short stories and articles from contemporary foreign periodicals. Cultural material is presented through reading and audio-visual materials. The FLACS B Consortium Examination will be taken at the end of this year.

Grades Taught: 10 – 12
NCAA Approved

0528 Spanish 4R (1 Credit)

Prerequisites: Successful completion of both the final assessment and Language 3R course.

This course is a continuation of previous language study. There will be an emphasis on refining students' ability to communicate both in writing and speaking. Students will also be exposed to excerpts from authentic literary works and will be required to use the language in various discussions and demonstrations. **College credits from the University of Stony Brook may be obtained for this course after enrolling in the ACE program at Stony Brook, paying the tuition fee and completing the course with a C grade or better.**

Grade Taught: 11
NCAA Approved

0507 French 4H
0517 Italian 4H
0527 Spanish 4H
(1 Credit - Honors)

Prerequisites: Minimum grade of 85 on the FLACS Consortium B Examination. Minimum grade of 85 in Language III R. Subject to Department Chair approval.

This fourth year provides abundant practice in conversation and writing, with the emphasis being on accuracy and fluency. Oral presentations in the form of skits, speeches, demonstrations and interviews will be part of the class work activities as well as the final examination. Readings will include authentic

materials such as novels, short stories, poems and excerpts from periodicals. This course is designed to begin preparing students for the AP Exam in level 5 AP. **College credits from the University of Stony Brook may be obtained for this course after enrolling in the ACE program at Stony Brook, paying the tuition fee and completing the course with a C grade or better.**

Grades Taught: 10 – 12
NCAA Approved

0542 Spanish 5
(1 Credit - Honors)

Prerequisites: Successful completion of Language 4 or 4 Honors.

In this college level course, students will continue to develop and refine the four skills of language learning: listening, speaking, reading and writing. The students will be given various opportunities to use each skill, such as in presentations and demonstrations, reading literary selections and writing compositions. **College credits from the University of Stony Brook may be obtained for this course after enrolling in the ACE program at Stony Brook, paying the tuition fee and completing the course with a C grade or better.**

Grade Taught: 12
NCAA Approved

0549 Heritage Spanish (1 Credit) - formerly Spanish Language and Culture

Prerequisite: Department chair recommendation.

This course offers Spanish speaking students an opportunity to excel in their language studies by offering a combined level 3/4 Spanish course. Students will be required to score an 85 or better on the FLACS Consortium B Examination. Students will begin preparation for the advanced level courses including the college courses offered through the University of Stony Brook, the AP Literature and the AP Language Exams. Students will have the opportunity to practice their language skills through literary work, historical and cultural lessons in a class where Spanish is spoken exclusively.

NCAA Approved

0532 Spanish Language Arts 1

This course is designed to develop literacy and academic skills of English Language Learners in their home language. The course will provide the opportunity for students to further develop and foster the skills, strategies and standards of focus in their corresponding ELA courses in their Native Language, and transfer them to English. Such skills include the writing process, literary analysis and

interpretation, research, grammar, academic vocabulary and more. Students will be introduced to well-known works of literature, literary movements, music and art to lay the foundation needed to grow their academic skills.

Grades Taught: 9 – 12

0534 Spanish Language Arts 2

Prerequisites: SLA 1

This course is a continuation of Spanish Language Arts 1 and is designed to develop literacy and academic skills of English Language Learners in their home language. Additionally, this course is designed to prepare students for the courses of AP Spanish Literature, AP Spanish Language and other literary based courses to prepare students for college level study. The course will provide the opportunity for students to further develop and foster the skills, strategies and standards of focus in their corresponding ELA courses in their Native Language, and transfer them to English. Such skills include the writing process, literary analysis and interpretation, research, grammar, academic vocabulary and more. Students will be introduced to well-known works of literature, literary movements, music and art to lay the foundation needed to grow their academic skills.

Grades Taught: 9 – 12

0536 Spanish Language Arts 3 (not offered until 2025-26)

Prerequisites: SLA 2

This course is a continuation of Spanish Language Arts 2 and is designed to develop literacy and academic skills of English Language Learners in their home language. Additionally, this course is designed to prepare students for the courses of Spanish Language Arts 4, AP Spanish Literature, AP Spanish Language and other literary based courses to prepare students for college level study. The course will provide the opportunity for students to further develop and foster the skills, strategies and standards of focus in their corresponding ELA courses in their Native Language, and transfer them to English. Such skills include the writing process, literary analysis and interpretation, research, grammar, academic vocabulary and more. Students will be introduced to well-known works of literature, literary movements, music and art to lay the foundation needed to grow their academic skills.

Grades Taught: 9 – 12

0538 Spanish Language Arts 4 (not offered until 2026-27)

Prerequisites: SLA 3, AP Spanish Literature and Culture and/or AP Spanish Language and Culture

This course is a continuation of Spanish Language Arts 3 and is designed to develop literacy and academic skills of English Language Learners in their home language. The course will provide the opportunity for students to further develop and foster the skills, strategies and standards of focus in their corresponding ELA courses in their Native Language, and transfer them to English. Such skills include the writing process, literary analysis and interpretation, research, grammar, academic vocabulary and more. Students will be introduced to well-known works of literature, literary movements, music and art to lay the foundation needed to grow their academic skills.

Grades Taught: 9 – 12

ADVANCED PLACEMENT

0509 AP French Language and Culture
0529 AP Spanish Language and Culture
0544 AP Italian Language and Culture
(1 Credit - Advanced Placement)

Prerequisites: A final grade of 85 or better in Spanish 4H. Students must complete a summer assignment and have Department Chair approval.

The purpose of this course is to assist students in becoming more proficient in listening, speaking, reading, and writing. The emphasis will be on the use of language for communication. This is a college level course comparable in difficulty to a full year course in Composition and Conversation. Student evaluation includes the AP exam, a final exam and projects. Students taking this course must take the Advanced Placement examination in May (fee required). **College credits from the University of Stony Brook may be obtained for this course after enrolling in the ACE program at Stony Brook, paying the tuition fee and completing the course with a C grade or better.** The syllabus for this course has been approved by the College Board's Advanced Placement audit.

Grade Taught: 12
NCAA Approved

0546 AP Spanish Literature and Culture (1 Credit - Advanced Placement)

Prerequisites: A final grade of 85 or better in Spanish 4H or Spanish 5. Department Chair approval is required. Students must complete a summer assignment.

The purpose of this course is to help students become more proficient in all areas of language acquisition through the study of Spanish literature. This is a college level course. Throughout the year students will read various genres in Spanish and prepare for the Advanced Placement Exam in Spanish Literature**.** Students taking this course must take the Advanced Placement examination in May (fee required). **College credits from the University of Stony Brook may be obtained for this course after enrolling in the ACE program at Stony Brook, paying the tuition fee and completing the course with a C grade or better.** The syllabus for this course has been approved by the College Board's Advanced Placement audit.

Grades Taught: 11 – 12
NCAA Approved

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, Current Teacher Approval, Department Chairperson/Supervisor Approval

0550 Introduction to Spanish (1 Credit)

The student is introduced to the language through listening, speaking and writing exercises. Selected dialogues and readings are used to introduce the vocabulary and speech pattern drills. Practice and communicative techniques stress pronunciation, comprehension and conversation. The culture of Spain and Spanish Speaking countries is introduced as well.

Grades Taught: 9 – 12

Career and Technical Education Course Offerings

BUSINESS EDUCATION

The Business program at Longwood High School enables students to build a foundation of business and computer skills for college and career readiness. The selection of course offerings is designed to provide a variety of options for students to meet graduation requirements while developing broad based, transferable skills and specialized competencies. In addition, students can gain entry level employment skills and be able to fulfill their own business related personal responsibilities.

Many students begin their high school career with Academy Career Exploration. This course teaches them the basic study skills necessary to be successful at this level and begin the employment preparation process. They prepare for their role as a working citizen and develop the skills necessary to manage their financial resources as an adult. Students and parents are encouraged to exercise flexibility in selecting specific courses to form a program which provides a background in accounting, marketing, computer skills, or any combination of these. Students wishing to develop personal competencies and earn college credit from a local college/university should consider the following courses: College Accounting, Commercial Law, Introduction to Microcomputer Applications, Principles of Marketing and BA/BCA (Virtual Enterprise).

The Business program also provides students with a variety of co-curricular and extra-curricular offerings. The student leadership program, Future Business Leaders of America, allows them to network within the school community and across New York State. The Moot Court Club gives students an opportunity to compete against their peers as they develop a keen awareness of our judicial system. Additionally, the New York State Business Honor Society recognizes students' accomplishments and excellence in academic and business courses.

CTE Technical Endorsement for Business Management and Entrepreneurship

Longwood High School is proud to be offering the opportunity to obtain a CTE Endorsement for Business Management and Entrepreneurship. Successful completion of the program will earn students the CTE endorsement on their diploma. The CTE Endorsement signifies that students are prepared for entry-level employment and have demonstrated the necessary workplace skills to be successful. In addition, the CTE Endorsement demonstrates to colleges and other post-secondary institutions a student's strong desire to learn more about business management and entrepreneurship.

In order to obtain the CTE designation on their high school diploma, students must meet the following coursework requirements:

Grade 9 Required Courses: • Academy Career Exploration
Grade 11 & 12 Required Courses: **Choose three of the following Required Courses:** • College Accounting • Digital Software Applications (IMA)

- Principles of Marketing
- Virtual Enterprise

*Students must complete 3.5 total credits utilizing the required courses above. Students must also pass an industry assessment, participate in work-based learning activities and complete an Employability Profile which is done through their required coursework.

1900 (ACE) Academy Career Exploration (½ Credit)

ACE prepares 9th grade students for high school, college, careers and beyond. The goal of ACE is to give students at Longwood a competitive edge by analyzing their interests and abilities utilizing Naviance to tailor their course selection advantageously in the pursuit to become career and college ready. Students will research a career, based upon their interests, explore the requirements to get into college, set goals based upon college and career choices, draft a resume to gain experience and participate in a mock job interview. Additionally, students will examine the course offerings at Longwood High School to determine which pathway best suits their academic needs. Financial literacy topics include types of accounts and investment, how to manage a checking account, prepare a personal budget, the importance of credit and how to avoid identity theft. Students will learn different facets of economics including types of economies, industries, business ownership, resources and entrepreneurship. To be prepared for college, students will learn skills such as test taking, how to study, organization, time management and goal setting. Culminates in an Acadamey Career folder and an in-class final exam.

0603 Google Apps for College and Career Readiness I (½ Credit)

Students enrolled in this course will learn how to use various Google Apps and develop accurate keyboarding skills to be better prepared for high school, college and the workplace. The focus of Google Apps for College and Career Readiness I course is to teach students introductory Google Applications with a focus on utilizing Google Docs, Gmail, Google Drive and Google Calendar. As a part of this course, students will learn digital citizenship, document formatting, proofreading, and organizational skills necessary to be successful in the 21st Century work and learning environments.

Grades Taught: 9 – 12

0606 Google Apps for College and Career Readiness II (½ Credit)

Prerequisite: Google Apps for College and Career Readiness I (Formerly known as Computer Keyboarding Applications I)

This is a course for all students who wish to further develop their Google Applications knowledge, and gain speed and accuracy in their keyboarding skills. Advanced features of Google Applications will be explored and students will apply their knowledge through real-world applications and simulations. Students will be prepared for the 21st Century workplace and learning environments.

Grades Taught: 9 – 12

0607 Virtual Enterprise – Business Analysis/Business Computer Applications (1 Credit)

Prerequisite or Co-requisite: Students enrolling in this course must have taken or be currently enrolled in ONE of the following Business Courses: Personal and Business Law, Principles of Marketing, College Accounting, Sports Marketing, Introduction to Microcomputer Applications.

Learn what is involved in starting your own business. This entrepreneurial and global simulation provides students with an opportunity to unleash their potential through creating and managing a business venture. The "virtual" business replicates all of the functions and demands of a real business in both structure and practice, from product development, production and distribution, to marketing, sales, human resources, finance and accounting. As "employees" of the "virtual" business, students are accountable for their company's management and performance. Through a web-based network, student-run businesses are connected throughout the world to other "virtual" businesses. Virtual Enterprise students experience the expectations of the global economy and find new solutions to drive business results by trading across industries, borders and cultures. To further enrich this experience, students participate in a series of extended learning opportunities. Students will attend local and international trade shows and participate in various competitions such as Elevator Pitch, Company Branding and Business Plan Presentations. In addition student employees will create company newsletters and continue website maintenance and development. For an additional fee, students have the option to take this course for three college credits.

Grades Taught: 11 – 12

0608 Personal and Business Law (1 Credit)

Topics covered will take you through a lifetime experience with law: criminal law, juvenile law, personal injury law, criminal and civil trial procedures, contracts, employment, renting, marriage and divorce. Discussion of current cases in the news/experiences. Students will actively participate in mock trials and one-on-one civil court cases in the classroom court. In addition to their legal studies students will have the opportunity to attend a full day field trip to a local courthouse.

Requirements: Students are required to participate in mock trial presentations during class time. This course is required for all students wishing to participate on the Moot Court Team.

Grades Taught: 10 – 12
NCAA Approved

0614 Principles of Marketing (1 Credit - Honors)

This course includes the essentials of marketing. Instructional areas include: the development of the 5 P's of Marketing: Product, Price, Place, Promotion, and Public Relations. Classroom instruction will be reinforced through the use of class projects relating to the lessons. Students will be exposed to key concepts, methods of analysis, strategies and tactics critical to managing profitable customer relationships in today's world. Students will create a digital marketing campaign for a movie and a video game. Students will attend and compete at the Six Flags Great Adventure Business and Marketing Day. For an additional fee, students have the option to take this course for three college credits.

Grades Taught: 11 – 12

0615 College Accounting 1 (1 Credit - Honors)

In today's world, a working knowledge of basic accounting principles and economic data is paramount to being successful. Students will be able to make connections between textbook accounting and real-world accounting scenarios. The Color Accounting Learning System is used to associate colors with accounting concepts. It is a kinesthetic, tactile and visual approach that appeals to different student learning styles. Current fraud and forensic accounting cases will be studied. Students will be certified in basic individual income tax preparation through the Volunteer Income Tax Assistance (VITA) program offered by the Internal Revenue Service. For an additional fee, students have the option to take this course for three college credits.

Grades Taught: 11 – 12

0616 Sports Marketing (½ Credit)

This course is designed for students with an interest in the sports industry. Through various projects, students will learn how to create a need in others for a product through the various components of the marketing mix: product, price, place, promotion and public relations. Students will attend a field trip to Madison Square Garden, Yankee Stadium or Citi Field. Students will create a fantasy team and market it throughout the course with state of the art projects such as a team logo, stadium design, ticket design, team promotional brochure and team magazine cover. Students will complete a final project.

Grades Taught: 10 – 12

0617 General Education Work Experience Program (½ Credit)

This course will require 150 hours of paid, school-supervised work experience, supported by at least one period per week of related in-school instruction for which the student will earn one half unit of local elective credit toward graduation requirements. Topics include: obtaining a job, human relations skills, understanding laws related to employment, and opportunities for advancement.

Grades Taught: 10 – 12

0619 General Education Work Experience Program (1 Credit)

This course will require 300 hours of paid, school-supervised work experience, supported by at least one period per week of related in-school instruction for which the student will earn one full unit of local elective credit toward graduation requirements. Topics include: obtaining a job, human relations skills, understanding laws related to employment, and opportunities for advancement.

Grades Taught: 10 – 12

0618 Career Exploration Internship Program (½ Credit)

This program is designed to permit students to develop and demonstrate their skills at a supervised worksite. Students will learn about the world of work and career opportunities. Students will learn firsthand about the skills and educational requirements necessary for career areas in which they believe they are interested. Through this program, students will be able to play an integral part in designing their own high school program and in choosing courses they should take to reach their career objective. *Requirements: Students must complete 81 hours including worksite and weekly meetings with the School-to-Career Coordinator.*

Grades Taught: 11 – 12

0620 Commercial Law (1 Credit - Honors)

Prerequisite: Successful completion of 0608 Personal & Business Law.

Commercial Law is designed for students who enjoy taking part in debates and class mock trials, as well as those having a passion for the law. Students are provided with an in-depth study of the law beyond what was introduced in the prerequisite course, Personal Business Law. Students will routinely prepare and perform cases from topics covered in class such as Constitutional Law, Consumer Law, Environmental Law, Business Ethics and Corporate Responsibility, Employment Law, Personal Injury Law, Trademark and Copyright Law, Warranties and Product Liability, and Contract and Tenancy Law. Students will also become acquainted with the sources and theories of law, functions of the state

and federal court systems, and current events/legal cases in the news. Students will also participate in a field trip for real life courtroom experience. For an additional fee, students have the option to take this course for three college credits.

Grades Taught: 11 – 12

0625 Digital Software Applications (1 Credit - Honors)
Formerly known as Introduction to Microcomputer Applications – (IMA)

This course will provide the student with fundamental internet, word processing, spreadsheet, database, presentation, desktop publishing, and web design skills, as well as a basic understanding of information technology. This hands-on computer course features self-paced instruction on some of the most popular software packages used in the real world today--Microsoft Word, Excel, Access and Power Point. Students will also receive instruction in Web Design utilizing WIX, Web Design language Hypertext Markup Language (HTML), including Cascading Style Sheets (CSS), and Macromedia Dreamweaver or Canva. Students will attend a field trip to the Museum of Moving Images. For an additional fee, students have the option to take this course for six college credits.

Grades Taught: 11 – 12

0626 Math and Financial Applications (1 Credit)

Math and Financial Applications is a 1-unit specialized interdisciplinary business course related to the mathematics learning standards. This course is designed to prepare students for college level programs and to understand the complex financial world they will encounter during their lives. The following topics will be studied: payroll, interest, budgeting/depreciation, loans/banking, annuities, credit, investment and financial statement analysis. This course may only be used by seniors as a third unit of math.

Grades Taught: 11 – 12

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, current teacher approval, department chairperson/supervisor approval.

1950 (ACE) Academy Career Exploration (½ Credit)

ACE prepares 9th grade students for high school, college and careers. The goal of ACE is to give students at Longwood a competitive edge by analyzing their interests and abilities to tailor their course selection advantageously in the pursuit to become career and college ready. Students will research a career based upon their interests, explore the requirements to get into a college, research opportunities for vocational apprenticeship, set goals based upon college and career choices and draft a resume to gain experience in that field. Additionally, students will examine the course offerings at Longwood High School to determine which pathway best suits their academic needs. Financial literacy topics include how to manage a checking account, prepare a personal budget, the importance of credit and how to avoid identity theft. Students will learn different facets of economics including types of economies, industries, business ownership, resources and entrepreneurship. To be prepared for college, students will learn skills such as test taking, how to study, organization, time management and goal setting. Culminates in a career portfolio and an in-class final exam.

Grade Taught: 9

0652 Business Communications/Keyboarding Applications (1 Credit)

This course is designed to develop computer literacy skills as well as alphabetic and numeric keyboarding skills that are needed for success in the digital computer age. It will assist students in communicating more effectively by developing communication, social and interpersonal skills. This subject is required for all business education sequences. It is strongly recommended that all students complete this course.

Grades Taught: 9 – 12

0658 Career Exploration Program (½ - 1 Credit)

This course is designed to develop job skills at a worksite through the supervision and guidance of a job coach. Students will learn about the world of work and career opportunities related to interests and vocational aptitude. Workforce readiness skills are developed through on-site participation. This course will require a minimum of 54 hours in an unpaid school-supervised work experience. This course is a four period course of study that is one semester in length. Participation in this course is determined by CSE. Completion of this course satisfies the work-based hours required for a CDOS credential. Credit received to be determined by the number of documented hours in the work place.

0655 Career and Financial Management (1 Credit)

Jump-start your future by learning about your interests and gaining valuable workplace experience. Students will explore post-secondary options and begin to plan for their career through research and exploration activities. Students will create a career plan to lay the foundation for sound career decision-making. Class activities will include vocational aptitude assessments, career research activities, and soft-skill development necessary in the workplace. Students will learn how to compete in a competitive job market. Guest speakers and field trip opportunities will enhance student

learning. All students will complete a Career Portfolio, which will include a résumé and references. This course may be scheduled at LCC for multiple periods in the fall or spring. It is a complement to the Work-based Learning program which includes on-site work experience with job-coaching support.

Grades taught: 12

TECHNOLOGY EDUCATION

INTEREST GROUPS	COURSE	CREDIT
COMMUNICATION	Communication Systems	½
	Design & Drawing for Production	1
	Computer Aided Design	½
	Architectural Drawing	½
	Graphic Communications	½
	Media Production 1	½
	Media Production 2	½
	Advanced Media Productions	1
ELECTRONICS	Electricity/Electronics	½
	Energy and Power	½
MATERIAL	Technical Drawing	½
	Design & Drawing for Production	1
	Construction Systems	½
	Production Systems	½
	Architectural Drawing	½
	Residential Structure	½
TRANSPORTATION	Electricity/Electronics	½
	Transportation Systems	½
	Land Transportation	½
	Auto Service Technology I	½
	Auto Service Technology II*	½
	Advanced Auto Service Tech	1

PRE-ENGINEERING	Electricity/Electronics	½
	Technical Drawing	½
	Design & Drawing for Production	1
	Computer Aided Design	½
	Architectural Drawing	½
	Principles of Engineering*	1
CISCO ACADEMY	CISCO Computer Repair and Maintenance	1
	Network Fundamentals I*	1
	Network Fundamentals II*	1
*Courses offer college credits for additional fee		

1202 Communication Systems (½ Credit)

This course examines how people communicate information and ideas through the use of technology. Student participation in individual and group laboratory activities involving photo image editing, audio/sound editing, graphic design, broadcasting and video production. Students will be introduced to the latest communications technology and career opportunities.

Grades Taught: 9 – 12

1203 Construction Systems (½ Credit)

Construction Systems provides instruction in all aspects of construction. Areas covered are needs assessment, blue prints, planning, occupational assessment, history, funding, new techniques and materials. A focus of this course is to connect the curriculum with industry needs and careers associated with various construction systems. Each student will construct a model of a structure to a scale of 1" = 1'0". The processes of construction are covered with the construction of this model (foundations, superstructures, enclosure systems, and utility systems. One major project (model) and a comprehensive final examination are required. It is strongly recommended that students taking this course have successfully completed Design & Drawing for Production (DDP).

Grades Taught: 10 – 12

1204 Energy and Power (½ Credit)

Prerequisite: Students must have a minimum grade of 75 or better in Electricity/Electronics.

Energy and power will provide high school students with the opportunities to directly test and evaluate the theories and practices of the Electricity/Electronics course offered. Through the utilization of direct evaluation techniques, such as performance testing, students will relate energy and power applications to areas directly affecting changes and improvement in the lives of members of the global community.

Grades Taught: 9 – 12

1205 Production Systems (½ Credit)

Prerequisite: Students must have a minimum grade of 75 or better in Design & Drawing for Production (DDP) or successful completion of Construction Systems. Teacher recommendation is required.

Students will learn about the areas of manufacturing and construction (structures), their resources, processes, products, and quality assurance relating to each area. Both areas are project oriented with the manufacture of a student designed mass production project. Students will use hand tools, machine tools, standard machines and computer numeric controlled equipment (CNC). A comprehensive final exam is required at the conclusion of the course. All students are involved in the mass production of the assembly line project. Projects may include a research presentation, an independent mass production or a community/donation project as supported by the high school.

Grades Taught: 10 – 12

1206 Transportation Systems (½ Credit)

This course provides an overview of aerospace, land and marine transportation systems. Students will study various forms of transportation, internal and external combustion, pneumatics, hydraulics, automated control systems, energy and power principals. Technical innovation and environmental impact on all forms of transportation will be addressed. Grading in Transportation Systems is comprised of weekly tests, quizzes, and homework. This course is predominantly lesson, demonstration and text. This course is the prerequisite for all the automotive courses.

Grades Taught: 10 – 12

1207 Electricity - Electronics (½ Credit)

This is a foundation course covering electron theory, charges, circuits, sources of electricity, voltage, current, resistance, Ohm's law, AC & DC, magnetism, digital electronics and semiconductors. Requirements include basic wiring and circuit construction, soldering, assembling digital circuits, home wiring and speaker building.

Grades Taught: 9 – 12

1208 Technical Drawing (½ Credit)

This is a foundation course covering basic technical drawing techniques and the use of drafting tools. Topics taught include measuring, scaling, orthographic projections, auxiliary views, sectional views, isometric drawings and oblique drawings. A comprehensive final exam is required at the conclusion of this course. Students must successfully complete a prescribed number of drawings each marking period.

Grades Taught: 10 – 12

1209 Design & Drawing for Production (1 Credit)

This course emphasizes creative problem solving, designing, and technical drawing skills which reflect the approach used in business and industry in the development of new products. Students will develop solutions to various design activity problems. Proposed solutions are researched, sketched, refined, and rendered as technical drawings. Activities will include but are not limited to the re-designing and production of already existing products, magnetic levitated vehicles and independent design activities. In addition, students will be introduced to the fundamentals of computer aided drawing which they may apply to the design activities. ***This course satisfies the one credit requirement for art toward graduation.***

Grades Taught: 9 – 12

1210 Architectural Drawing (½ Credit)

Architectural drawing explores architectural styles, construction methods and materials, model construction and sound architectural principles. Students will prepare all drawings using Chief Architect design software. Drawings will include floor plans, foundation plans, elevations and scaled architectural models.

Grades Taught: 10 – 12

1211 Computer Aided Design (½ Credit)

Computer Aided Design utilizes the use of computers and computer related equipment to develop the knowledge and skills necessary for the design, drafting and development of manufactured products. Students will acquire basic skills in the use of computers, printers, plotters and the use of Key Creator software to develop three-view, three-dimensional and solid drawings.

Grades Taught: 10 – 12

1213 Graphic Communications (½ Credit)

Students will study graphic communications and how it interfaces with other communications media. Required laboratory computer activities include advanced digital imaging, poster printing and vinyl signage. Career opportunities in the graphics industry will be emulated through the use of clients and field work throughout the building.

Grades Taught: 9 – 12

1214 Land Transportation (½ Credit)

Prerequisite: Minimum grade of 75 or better in Transportation Systems.

This course investigates the various systems of land vehicles. Some of these systems include: Power Train Systems, Ignition Systems, Charging and Starting Systems, Fuel Systems, Lubrication Systems, Cooling Systems, Brake Systems, Suspension Systems, and Electrical Systems. Land Transportation is a "hands on" course, the majority of class time is lab centered. Students will be instructed in the operation and safety of all the automotive service equipment. Students will be required to demonstrate their mastery of this equipment.

Grades Taught: 10 – 12

1215 Auto Service Technology 1 (1 Credit – Lecture/Lab)

Prerequisites: Minimum grade of 75 or better in Transportation Systems and Land Transportation. Electricity/Electronics is recommended as a co-requisite.

In this course, students will gain the skills needed for entry level employment and admission to advanced technical programs in post-secondary and technical schools. Topics include: tire and wheel service, lubrication service, exhaust work, cooling system service, maintenance and repair; which includes bulbs, hoses, switches, fuses and electric motors. Auto Service Technology I and II are live automotive hands-on classes. Students will be required to perform all the duties of a Service Writer,

Shop Foreman, and Line Technician, (light work), on a rotational basis. Grades are calculated from quizzes and the student's individual performance. Class overtime is also factored into the student's grade. Students may work during study halls, lunch and after school. The Auto Lab is always available for Auto Tech students. Auto Service 1 is schedule as a lecture/lab over two consecutive class periods.

Grades Taught: 10 – 12

1216 Auto Service Technology 2 (1 Credit – Lecture/Lab and 3 college credits)

Prerequisites: Minimum grade of 75 or better in Transportation Systems, Land Transportation and Auto Technology 1. Basic Electricity/Electronics is strongly recommended as a co-requisite.

In this course, students will gain additional automotive skills and continue to develop those skills introduced in Auto Service Technology 1. The topics covered include: Electrical and Fuel System trouble shooting, Emission Control System service, Brake System service, Tune-up, Advanced Automotive line work and four forms of welding. Students will concentrate on their elected areas of expertise. Live work and applicable mini lessons comprise the bulk of the class time. Grades are calculated from quizzes and the student's individual performance. Auto Service 2 is scheduled as a lecture/lab over two consecutive periods. For an additional fee, students have the option to take this course for three college credits through the Suffolk County Community College's Beacon program. Advanced Auto Service Technology is offered second semester only.

Grades Taught: 10 – 12
SCCC Beacon Approved

1217 Residential Structures (½ Credit)

Prerequisite: Successful completion with a grade of 80 or better in either of the following courses: Production Systems, Construction Systems, by teacher recommendation.

This course is a study of the many systems and skills involved in the construction of living space. Course content includes resources (e.g. planning, materials, finances) and processes (e.g. specialized foundation, framing, enclosing, roofing, and utilities). Activities include the design and building of both models and a full-size construction. Offered spring semester.

Grades Taught: 10 – 12

1218 Media Production 1 (½ Credit)

Prerequisites: Minimum grade of 75 or better in Communication Systems or Graphic Communications.

In Media Production, students will review Communication Systems Technology. Required laboratory activities consist of performance competencies using audio/video computer systems in the production facility. Students will also explore possible career opportunities and participate in programs such as school news, sports reporting and video production. *Students are encouraged to select Media Production 1 and 2 in the same academic year to earn a full combined credit in Media Production.*

Grades Taught: 10 – 12

1219 Media Production 2 (½ Credit)

Prerequisites: Media Production 1

In this course, students will continue to study the processes of electronic mass communication systems. Student activities will focus on communication concepts, proposal development, screen writing and electronic production techniques applied to individual and group projects. Student projects will utilize computer applications in advanced photo imaging, authoring interactive media and digital video editing.

Grades Taught: 10 – 12

1222 Principles of Engineering (1 Credit and 3 college credits)

Principles of Engineering introduces students to the design engineering process. Through case studies that will include teamwork, extensive research, a hands-on approach and technical communication skills, students will follow the process involved to develop solutions to basic engineering design problems. Students will apply the principles of mathematics and natural sciences to the final development of the case study where applicable. Engineering disciplines investigated will include, but are not limited to, aeronautical, structural, design analysis, civil, mechanical, creative and technical communications. For an additional fee, students have the option to take this course for three college credits through SUNY Farmingdale College. Participating students are considered non-matriculated undergraduate students at the designated college. Preference will be given to students who have completed Design & Drawing for Production.

Grades Taught: 11 – 12

CISCO NETWORKING ACADEMY

Cisco Networking Academy is an innovative global education initiative that delivers information and communication technology (IT) skills to help meet this growing demand while improving career and educational opportunities for students around the world. Networking Academy prepares students for industry recognized certifications and professional career opportunities in IT through the following courses:

1223 CISCO Computer Repair and Maintenance (1 Credit)

Covers the fundamentals of computer hardware and software, as well as advanced concepts. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. New topics include laptop and portable devices, wireless connectivity, security, safety and environmental issues, and communication skills. Hands-on lab activities will continue to be an essential element of the course. An addition in support of this; virtual learning tools will now be integrated into this course. After successful completion of this course students will be prepared to take, if they wish, the CompTIA A+ Certification Exam.

Grades Taught: 9 – 12

1224 Network Fundamentals I (1 Credit – Honors college credits)

Prerequisite: Completion of course number 1223 with a grade of 75 or better and a teacher recommendation.

Network Fundamentals I teaches students the skills needed to obtain entry-level home network installer jobs. It also helps students develop some of the skills needed to become network technicians, computer technicians, cable installers, and help-desk technicians. It provides a hands-on introduction to networking and the internet using tools and hardware commonly found in home and small business environments. Labs include PC installation, Internet connectivity, wireless connectivity, file and print sharing, and the installation of game consoles, scanners and cameras. This course also prepares students for jobs as network technicians and helps them develop additional skills required for computer technicians and help desk technicians. It provides a basic overview of routing and remote access, addressing, and security. It also familiarizes students with servers that provide email service, web space, and authenticated access. Students learn about the soft skills required for help desk and customer service positions, and the final chapter helps them prepare to take the CCENT certification exam. Network monitoring and basic troubleshooting skills are taught in context. For an additional fee, students have the option to take this course for college credits through a designated college.

Grades Taught: 10 – 12

1226 Network Fundamentals II (1 Credit – Honors college credits)

Prerequisite: Completion of Network Fundamentals 1 with a grade of 75 or better.

Network Fundamentals II familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephone requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises including configuration, installation, and troubleshooting, reinforce student learning. The second half of the year introduces students to network design processes using two examples; a large stadium enterprise network and a medium-sized film company network. Students follow a standard design process to expand and upgrade each network, which includes requirements gathering, proof-of-concept, and project management. Lifecycle services, including upgrades, competitive analysis, and system integration are presented in the context of pre-sale support. In addition to the Packet Tracer and lab exercises found in the previous courses, there are many pen-and-paper and role-playing exercises that students complete while developing their network upgrade proposals. At the completion of this course, students will have the necessary skills to prepare for the CCNA certification exam. For an additional fee, students have the option to take this course for college credits through a designated college.

Grades Taught: 11 – 12

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, current teacher approval, department chairperson/supervisor approval.

1252 Production Systems (1 Credit)

This course covers systems of manufacturing and construction; their resources, process, products, and quality assurance. The impact of the manufacturing and construction industries on the economy, environment, and society are explored. Students will actually design and manufacture a product and build a scale construction project. Computerized stress testing equipment will be used to test student designs and constructed projects. Activities include model bridge design, building, and testing and the mass production of student designed projects.

Grades Taught: 9 – 12

1253A Transportation Systems (1 Credit)

Prerequisite: This class is a prerequisite for all the automotive courses.

This course presents an overview of Aerospace, Land, and Marine transportation systems. Students will study a variety of power systems, energy sources, chemical, mechanical and electrical mechanisms. This course is predominantly lesson, demonstration and text. Tests, quizzes, and homework are required.

Grades Taught: 9 – 12

1255A Construction Systems (1 Credit)

This course provides instruction in the construction aspects of production. It is organized around the universal systems model of inputs, resources, processes, outputs and control as major topics. These five topics have been specifically tailored to construction of a structure on site. Students will be required to present a research project to the class.

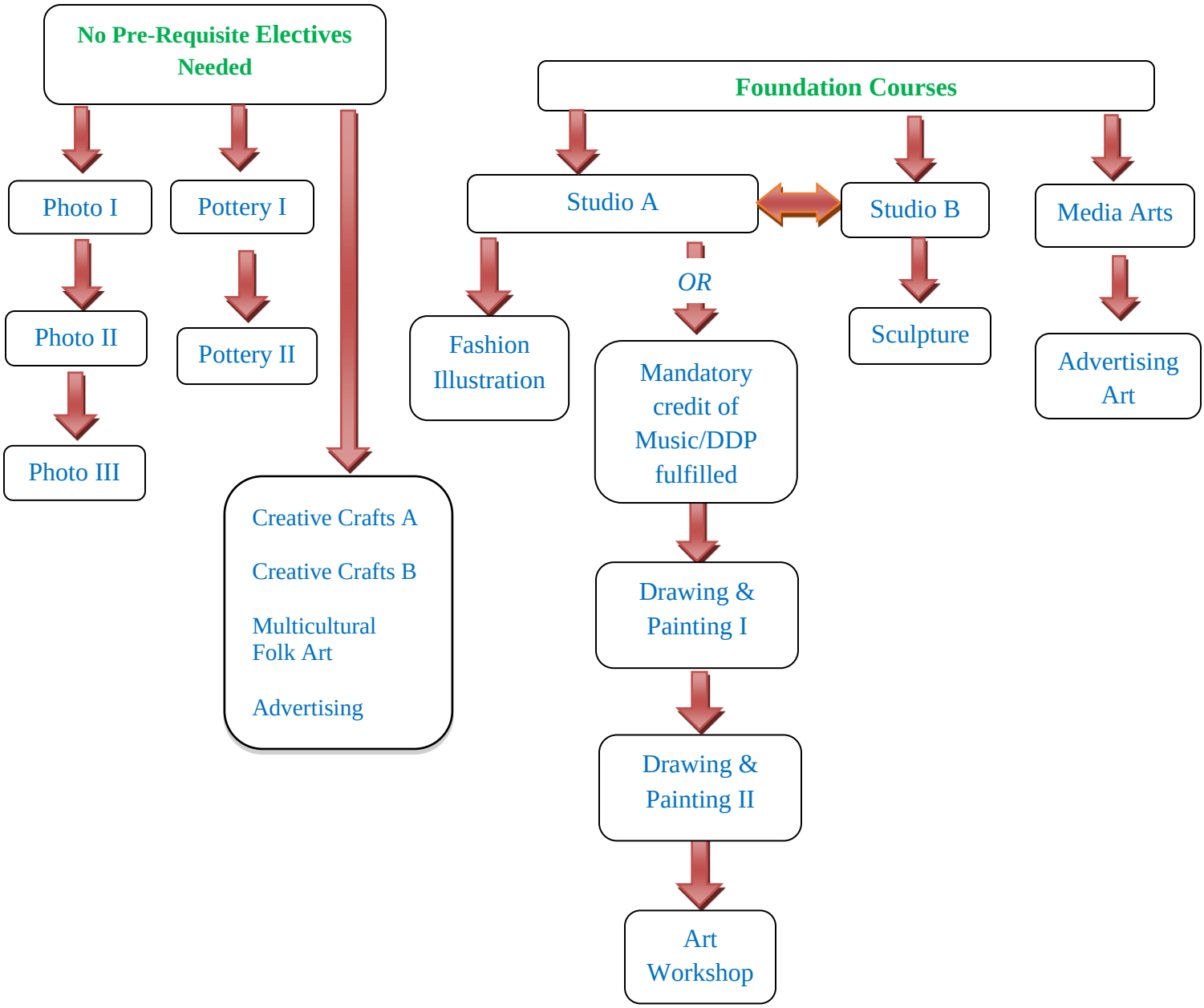
Grades Taught: 9 – 12

1257 Design & Drawing for Production (1 Credit)

This course emphasizes creative problem solving, designing, and technical drawing. The course reflects the approach used in business and industry to create new products. Students will develop solutions to various design activity problems. Proposed solutions are researched, sketched, refined and rendered as technical drawings. Activities will include but are not limited to re-designing and producing an existing product, magnetic levitated vehicles, and independent design activities. In addition, students will be introduced to the fundamentals of computer aided drawing which they may apply to the design activities. ***This course satisfies the one credit requirement for art.***

Grades Taught: 9 – 12

Art Education Course Offerings



Art education encourages personal fulfillment through art experiences, transmits an appreciation of the artistic heritage and develops an awareness of the role of art in society. Art programs help students respond to their immediate world and express themselves visually, learn that art is related to cultural endeavors of the past and present, and appreciate art as a way of encountering life.

0702 Studio Art A (½ Credit)

This foundational statewide course focuses on the development of two-dimensional skills. Through the use of the Principles of Design and Elements of Art, students will be using various drawing and painting materials to develop design skills over a 20 week experience. *This course satisfies 1/2 the mandatory art/music requirement.*

Grades Taught: 9 – 12

0703 Studio Art B (½ Credit)

This foundational statewide course focuses on the development of three-dimensional skills. Through the use of the Principles of Design and Elements of Art, students create sculptures using a variety of selected materials over a 20 week experience. *This course satisfies 1/2 the mandatory art/music requirement.*

Grades Taught: 9 – 12

0704 Creative Crafts A / Jewelry Making (½ Credit)

This half year course is for students who have an interest in three-dimensional design and have a desire to learn a variety of jewelry making techniques. The students will learn how to create wearable sculptures all while exploring skills: sawing, filing, riveting, piercing, buffing and surface design. Areas explored in this course: metal and plastic fabrication, polymer clay (sculpey and fimo), cloisonné enameling and fused glass jewelry. The historical and cultural origins of each form of jewelry will be discussed.

Grades Taught: 10 – 12

0705 Creative Crafts B / Glass & Fiber (½ Credit)

This half year elective course is designed to give direct practical experience in the design and fabrication of two major areas of study: glass and fiber. This may include mosaics and glass creations such as panels, boxes, or free forms. Traditional fabric designs are explored and painted on Chinese silk to create wall hangings and scarves. The historical and cultural origins of each craft will be explored and discussed. *This course satisfies 1/2 the mandatory art/music requirement.*

Grades Taught: 9 – 12

0706 Pottery I (½ Credit)

The emphasis of the course is the understanding and manipulation of clay through hand building. Students will create various three dimensional projects which may include: decorative goblets, fantasy animals and personalized plaques. A special emphasis will be placed on individual creativity and craftsmanship. Glazing techniques will be explored and applied to complete a piece.

Grades Taught: 10 – 12

0707 Pottery II (½ Credit)

Prerequisite: A final grade of 85 or better in Pottery I.

This advanced sculpture class will build upon the concepts learned in Pottery I. Students will learn to throw clay on a potter's wheel and develop and explore their skills. Alternative firing techniques, such as Raku, will be explored; as well as a variety of glazes. Projects may include: fantasy portraits, wheel thrown functional pieces (such as pitchers and cups), and nature based houses.

Grades Taught: 10 – 12

0708 Media Arts (1 Credit)

This course focuses on three major elements used to convey visual messages: composition, color and typography. Students will gain an introductory experience using design industry standard software including Adobe Photoshop, Illustrator and InDesign, which will enable them to edit photos and graphics, as well as create multi-page publications. Media Arts is a full year course. *This course satisfies the mandatory art/music requirement.*

Grades Taught: 9 – 12

0701 Sculpture (½ Credit)

Prerequisite: Successful completion of Studio Art B.

This half year course allows students to experience three-dimensional art in greater depth. This course builds upon techniques and tools utilized in Studio Art B. Some projects include mosaic sculpture, soapstone carving and mobile making. Students will also develop a knowledge of pivotal sculptors throughout history.

Grades Taught: 10 – 12

0709 Drawing & Painting I (1 Credit)

Prerequisite: Successful completion of Studio Art A or one music credit or one Design Drawing and Production (DDP) credit, which fulfills the New York State graduation requirement.

Drawing and Painting I continues to refine students drawing techniques while developing their personal style and creativity. Examples of topics covered include observational drawing from still life and original photographs, composition, 2D design, lighting, rendering 3D objects, value shading, perspective, illustration, and imagination drawing and painting. Drawing mediums such as graphite, charcoal, and pen and ink oil and chalk pastel will be explored in greater depth. Painting mediums such as watercolor and acrylic paints will also be explored. Strong emphasis is placed on an understanding and application of the elements of art and the principles of design. Projects include class work and home assignments. Students are expected to participate in reflective class critiques and meet all due dates. Students will work with their instructor to prepare work for display, write artists statements and develop a portfolio. *This course satisfies 1/2 the mandatory art/music requirement.*

Grades Taught: 9 – 12

0710 Drawing & Painting II (1 Credit)

Prerequisite: Successful completion of Drawing & Painting I.

This course explores advanced skills and techniques in materials including but not limited to graphite, charcoal, chalk, pastel, oil pastel, acrylic paint, and printmaking. Focus will be on perspective, highlights, shadows, and development of personal expression. Additionally, art history, art criticism and portraiture will be studied. The work completed in this class will be included in student portfolios. Requirements: Art sketch pad and attend a field trip to a major art show.

Grades Taught: 11 – 12

0700 Advertising Art (½ Credit)

Prerequisite: Successful completion of Media Arts.

In this course students will be introduced to the world of advertising. Students will learn about the psychology behind what influences a consumer's thought process based on the design aspect of the advertisement. Students will work with Photoshop, Illustrator, InDesign and other internet programs to learn how to manipulate images on the computer and create ads for print. Through a variety of project assignments such as creating a corporate logo, designing posters, environmental graphics, product ads, and TV commercials to name just a few, students will learn how to influence a consumer's decision through design. This will allow students to create effective and successful means of visual communication. Students will be exposed to a wide array of advertisements that range from past to present, as well as taking a look behind the psychology of successful advertisements.

Grades Taught: 11 – 12

0713 Fashion Illustration (½ Credit)

Prerequisite: Successful completion of Studio Art A.

This two-dimensional drawing course will introduce a variety of illustration techniques via the use of several drawing media. Students will be challenged with problem solving in figure drawing and clothing composition as well as the aesthetic principles and skills involved in fashion illustration. Completion of both illustrations and original fashion designs in each medium, portfolio development, and mastery of the fashion figure through weekly drawing assignments. This course satisfies ½ the mandatory art/music graduation requirement.

Grades Taught: 9 – 12

0714 Photography I (½ Credit)

A beginner course in which the student will learn basic camera handling techniques, exposure and development of film, lighting, enlarging and printing. A brief history of photography will also be covered. Emphasis will be placed on developing an aesthetic awareness in the student by having them produce a portfolio of prints. Students must supply their own 35 mm camera. This course satisfies ½ the mandatory art/music graduation requirement. *This course satisfies 1/2 the mandatory art/music requirement.*

Grades Taught: 9 – 12

0715 Photography II (½ Credit)

Prerequisite: Successful completion of Photography I.

This is an advanced course in photography. Continued emphasis will be placed on developing an aesthetic awareness in the student through challenging assignments in black and white photography. Topics to be covered will include advanced and experimental techniques in black & white photography. These topics may include Kodalith, portraiture, photo journalism, hand coloring, and print tinting. Students will also be introduced to digital photography and printing. Students must supply their own 35 mm and digital cameras and will submit a portfolio of work to be handed in at the end of each quarter. Students must supply their own jump-drive for stored work. This course satisfies ½ the mandatory art/music graduation requirement.

Grades Taught: 10 – 12

0716 Photography III (½ Credit)

Prerequisite: Successful completion of Photography I and II.

This course is designed to be an advanced study in photography. Students will work in both traditional black and white and digital format. This course will provide a more intense study of previously learned techniques and students will be challenged to take their photographs to the "next level." Students must provide their own 35 mm and digital cameras and submit a body of work that represents the advanced level of the course. Students must supply their own jump-drive for stored work. *This course satisfies 1/2 the mandatory art/music requirement.*

Grades Taught: 10 – 12

0717 Art Workshop (1 Credit)

Prerequisite: Successful completion of Drawing and Painting I and II or concurrent enrollment in Drawing and Painting II.

The advanced art elective is intended for those students who are seriously interested in the study of art. This is a college preparation course designed for art majors. Assignments will enhance and improve the students' existing skill level. Portfolios will be reviewed, assessed and prepared. It is expected that each student will prepare a portfolio of work, which can be submitted for college entry. The course will cover two-dimensional (or three-dimensional) drawing and design issues. A variety of approaches to representation, abstraction, and expression will be incorporated into the coursework.

Grade Taught: 12

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP Current Teacher Approval Department Chairperson/Supervisor Approval

0750 Studio Art A (½ Credit)

This foundational statewide course focuses on the development of two-dimensional skills. Through the use of the Principles of Design and Elements of Art, students will be using various drawing and painting materials to develop design skills over a 20 week experience. *This course satisfies 1/2 the mandatory art/music requirement.*

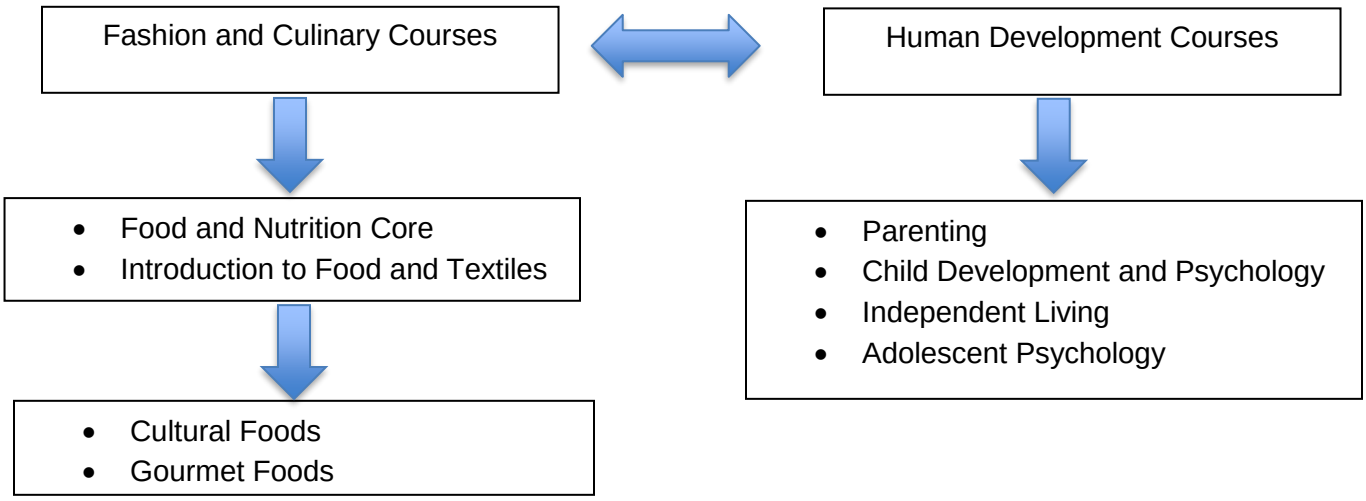
Grades Taught: 9 – 12

0751 Studio Art B (½ Credit)

This foundational statewide course focuses on the development of three-dimensional skills. Through the use of the Principles of Design and Elements of Art, students create sculptures using a variety of selected materials over a 20 week experience. *This course satisfies 1/2 the mandatory art/music requirement.*

Grades Taught: 9 – 12

Family and Consumer Sciences Course Offerings



Family and Consumer Sciences develop skills that empower people's lives. We work to improve the quality of life for individuals and families, and to provide training for related careers.

0802 Introduction to Food and Textiles (½ Credit)

This course is a prerequisite for Cultural Foods and Gourmet Foods

This course consists of two introductory units and is taken before other food or textile /sewing courses. The clothing and textiles unit introduces students to principles and elements of design, fabric construction, safety and tools. Hand and machine sewing work is practiced. Project work will involve use of computerized sewing machines. The food unit is designed to give students hands-on practice in developing basic safety, sanitation, and cooking skills. Labs include work with grains, fruits, vegetables, dairy, and protein. Students will also gain skills in baking. Career opportunities in food and fashion are discussed. Students will be assessed based upon unit work, participation, labs, projects and journal/notebook. This course culminates in a final exam.

Grades Taught: 10 – 12

0803 Food and Nutrition Core (½ Credit)

This course is a prerequisite for Cultural Foods and Gourmet Foods

This course is taken before advanced foods courses. Students will observe and practice basic cooking skills utilized in both home and commercial situations. Principles of nutrition are incorporated into each food lab. Food labs include the use of grains (quick and yeast breads), fruits and vegetables, dairy and protein. Course content will touch upon special dietary needs. Career opportunities in the

foodservice industry are discussed. Students will be assessed based upon unit work, participation, labs, projects and journal/notebook. This course culminates in a final exam.

Grades Taught: 10 – 12

0805 Cultural Foods (½ Credit) *Offered Spring Term Only*

Prerequisite: A minimum final grade of 85 in Food and Nutrition Core or Introduction to Food and Textiles.

This course is designed for students who wish to learn about cultural and regional difference in food preparation. Students will work in lab groups to prepare and evaluate foods from the seven regional areas of the United States. These opportunities will allow students to gain experience tasting, and comparing foods and the ingredients used, in different regions and how the preferred cooking methods may differ. Students will understand and appreciate our nation's diverse cultures. Career opportunities in the food-service industry are discussed. Students will be assessed based upon quizzes, unit work, participation, labs and projects. This course culminates in a final exam.

Grades Taught: 10 – 12

0806 Gourmet Foods (½ Credit)

Prerequisite: A minimum final grade of 85 in Food and Nutrition Core or Introduction to Food and Textiles.

The course is designed to explore advanced culinary preparation and techniques. Gourmet Foods teaches you about high quality food and elaborate presentations. Investigating flavor profiles and complimentary food pairings are components used to expand food prep skills and explore the more complicated procedures of fine cuisine. Learning acquired in this course will enable the student to identify and evaluate current food trends and develop skills in food preparation and food service. Food competitions and the creation of a cookbook are required. Students will be assessed based upon unit work, participation, labs, projects and journal/notebook. This course culminates in a final exam.

Grades Taught: 10 – 12

0808 Parenting (½ Credit)

Many people in our society become parents. This course focuses on the many choices individuals must make in relation to parenting. Unit topics include: The Responsibilities of Parenthood, is it for me?, Teen Pregnancy, Reproduction, Preventing STDs, Contraceptives, Pregnancy, Prenatal Care and Childbirth, Postnatal Care and Infant Care, and Parenting Styles. Students experience the demands of

parenthood for 72 hours by taking home our "Baby Think it Over" infant simulator. This assignment helps teens recognize the 24/7 reality and hard work involved in becoming a parent. This course culminates with an in class final exam.

Grades Taught: 10 – 12

0809 Child Development and Psychology (½ Credit)

Prerequisite: Teacher recommendation required. Signed student contract required upon class entrance.

This course is designed to explore the cognitive, social, emotional, and physical development of children throughout various stages of childhood. Students will explore the psychology of children and why they do what they do. Unit topics include: Overview of Psychologist, Observing Children, Child Care Options and Career Opportunities, Child Safety, Infant Development, Toddler Development, Preschool Development, School Age Child Development, Social Services and Children with Disablilties. Students will have hands-on experience observing and working with children. Class culminates with an in class final exam.

Grades Taught: 10 – 12

0810 Adolescent Psychology (½ Credit)

This course explores the changes and challenges during adolescence. Discussions and classroom activities help students examine the formation of self-concept, self-esteem, body image and the development of individual values and goals. Being adolescent means learning how to handle stress, communicate effectively and recognize factors that form healthy relationships. Social issues will be explored on topics such as abusive relationships, drug and alcohol abuse, eating disorders, depression and anxiety. Making responsible choices is an important part of becoming a responsible adult. Students will be assessed based upon quizzes, unit work, participation, classwork, projects and journal. This course culminates in a final exam.

Grades Taught: 10 – 12
NCAA Approved

0812 Clothing and Textiles Core (½ Credit)

This course is designed to build upon the introductory course for clothing and textiles. The fashion industry is an important factor in the global economy. The Clothing and Textiles Core explores the evolution of clothing, fashion cycles, element and design principles, equipment, construction and career pathways. Students will explore a variety of fabrics and their applications. They will learn the design types, silhouettes in fashion, the preparation of fabrics, the inspection and workmanship of a garment,

as well as how to measure and use a commercial pattern. Students will demonstrate skills needed for altering, repairing, recycling and redesigning apparel and textile products. Students will learn hand and machine construction skills while making sewing samples for a portfolio/journal. Students will be assessed based upon unit work, participation, labs, projects and journal/portfolio. This course culminates in a final exam.

Grades Taught: 10 – 12

0814 Independent Living (½ Credit)

This course is for anyone planning to live away from home, in a college dorm, house or apartment. Students learn about managing time, resources and finances. Students will learn how to search for housing, an automobile and insurance. They will also learn about seeking career training, financial aid and work. Students will learn about doing laundry, mending and setting up a living space. Students learn skills to cope with roommates. Students learn essential 21st century life skills such as consumer problems, credit and debit, banking, budgeting, paying bills and taxes. Cooking while on a budget is practiced in lab situations. Students will be assessed based upon unit work, participation, labs, projects and journal/notebook. This course culminates in a final exam.

Grades Taught: 11 – 12

The following course is adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, Current Teacher Approval, Department Chairperson/Supervisor Approval

0850 Independent Living (½ Credit)

Learning to live independently is an important skill for adolescents to learn and master. Students in this course will learn and practice independent living skills that are essential for life both in and out of high school. They will apply and practice these skills as they navigate their way in their post-secondary pursuits. The Independent Living class focuses on applying social intuition to interact appropriately in situations with peers and adults. This course is designed to give students an understanding of the "unwritten rules" of social environments. Students will have the opportunity to explore ways to get involved in school and community activities. In addition, this course is designed to provide students with support to develop skills in the areas of study strategies, organization, and time-management to find success both in high school and beyond.

Grades Taught: 9 – 12

Music Department Course Offerings

0904 Concert Band (Grades Taught: 9 - 10)
0913 Concert Band (Grades Taught: 11 - 12)
(1 Credit)

Prerequisite: Previous/current enrollment in Concert Band, a recommendation from your previous band teacher and/or a passable audition is required to enroll in this class.

These courses are designed to develop the ensemble performing skills of brass, woodwind and percussion players. Elements of study within this course such as breath control, articulation, tone production, technical facility, melodic and rhythmic vocabularies, and sight reading will be conveyed through the performance of a wide range of symphonic band literature. All members of this ensemble are required to perform at all scheduled concerts, including; the winter concert and the spring concert. With the exception of very few larger instruments owned by the district, students are required to provide their own instruments for the concert band. Class participation is mandatory.

0915 Orchestra (Grades Taught: 9 - 10)
0907 Orchestra (Grades Taught: 11 - 12)
(1 Credit)

Prerequisite: Previous/current enrollment in Orchestra, a recommendation from your previous orchestra teacher and/or a passable audition is required to enroll in this class.

These courses are designed to develop the ensemble performing skill of students interested in playing orchestral string instruments. Music ranging in repertoire of Baroque, Classical, Romantic, and Contemporary periods will be performed. All members of the orchestra are required to perform with the organization at all scheduled concerts, including; winter, spring, as well as the music and art festival. Students must provide their own instruments with the exception of several of the larger instruments owned by the district. Class participation is mandatory.

0908 Music Theory I
(1 Credit)

Music Theory I presents the basic concepts and elements of music. The course will culminate with the basic knowledge of 4-part writing, voice-leading, counterpoint and harmonic progression. Extensive drill work as well as aural and written exercises will be included. Text, worksheets, lecture, keyboard, singing, listening and computer lab drill work will introduce each unit of study and be a part of daily assignments. Assignments may be administered in class as well as for homework. Keyboard experience is helpful, but not necessary. Ensemble enrollment is preferred, (Band, Chorus and/or Orchestra).

Grades Taught: 10 – 12

0911 Chorus (Grades Taught: 9 - 10)
0912 Chorus (Grades Taught: 11 - 12)
(1 Credit)

Prerequisite: Previous/current enrollment in Chorus, a recommendation from your previous chorus teacher and/or a passable audition is required to enroll in this class.

These courses are designed to develop choral singing skills and enhance vocal production. Elements of study include breathing techniques, guides to improve tone quality, choral articulation, warm-up exercises, sight-reading material, and musical terminology. A broad spectrum of choral literature will be offered. All members of the chorus are required to participate in class rehearsals, attend weekly lessons, demonstrate an acceptable level of proficiency of their vocal part, and perform with the organization at all scheduled performances and concerts. Class participation is mandatory.

0920 AP Music Theory II
(1 Credit - Advanced Placement)

Prerequisite: Successful completion of Music Theory I with a minimum final grade of 85 or better with teacher recommendation.

This course builds on all concepts learned in Music Theory I and is designed to prepare college-bound students for degrees in music. Mastery of skills taught in Music Theory I is required and will be assessed in a thorough summer assignment, due August 15th. Emphasis will be on harmonic dictation and analysis, aural skills, sight-singing, and score analysis. Simultaneous enrollment with 11/12 Chorus is highly recommended. Students will be prepared to take the Advanced Placement examination in May, and a detailed study of music history will be included with the course. For an additional fee, students have the option to take this course for five college credits through the Suffolk County Community College's Beacon program.

Grades Taught: 11 – 12
SCCC Beacon Approved

Physical Education/Health Ed Course Offerings

Physical Education is a state mandated course. ALL students will be required to participate in the Fitness Program to evaluate level of fitness. Students will earn 1/2 credit each year.

Requirements: Students must come to class on time, be prepared in proper physical education attire and participate to the best of their abilities. Students will earn 4 points everyday throughout the quarter, (approximately 20 days) for a value of 80 points. The remaining 20 points will be earned from written and/or performance tests.

GRADE 9/10 - BOYS/GIRLS PHYSICAL EDUCATION

1127 9/10 Boys Physical Education
1128 9/10 Girls Physical Education
(½ Credit)

The ninth and tenth grade classes will embark on a comprehensive unit on fitness principles. Topics will include: target heart rate, blood pressure, fitness testing, nutrition, cardiovascular exercises and resistance training. A variety of sports will be included through the course of the year. The students will gain basic skills, knowledge of rules and strategies of game play in basketball, volleyball, track and field, and golf.

JUNIORS & SENIORS: CHOOSE ONE OF THE FOLLOWING

(Every effort will be made to accommodate students' requests. However, there are no guarantees due to scheduling constraints.)

1137 11/12 Phys. Ed/Outdoor Education (½ Credit)

This course is a series of sequential activities involving physical, mental, and social components. Outdoor Education uses cooperative games, trust activities, low and high climbing elements to develop an environment of honesty and trust. A variety of outdoor activities based on availability may include orienteering, fishing, biking. Students will complete a unit in CPR/AED.

1138 11/12 Phys. Ed/Lifetime Activities (½ Credit)

This course is designed to give the students the opportunity to learn lifelong fitness activities. In depth principle of weight training, cardiovascular exercise will be the core of this course. Students will also explore high intensity training like cross-fit, group exercise classes like step aerobics and yoga will also be covered.

1139 11/12 Phys. Ed/ Sport Module 1 (Team Sports) (½ Credit)

This course is designed to provide knowledge and improve skills in the game setting of team activities. Emphasis will be on sportsmanship, game strategies, and rules. Activities will include football, basketball, volleyball, and softball plus a variety of other team activities.

1140 11/12 Phys. Ed/Sport Module II (Net Sports) (½ Credit)

This course is designed to provide knowledge and improve skills in the game setting. Emphasis will be on game strategies, tournament play and rules. Activities will include but are not limited to tennis, volleyball, basketball and badminton.

1141 11/12 Phys. Ed/ Sport Module III (Dance) (½ Credit)

This course is designed to explore the composition elements of dance through space, timing, energy and shape. Emphasis will be put on the multicultural aspects of dance, student driven choreography and technique. Activities may include but are not limited to fitness based dance, cultural dance and modern dance methods.

1401 Health Education (½ Credit)

This course deals with current health practices and problems in our society. Many speakers from community health agencies contribute to the student's understanding of the present day health situations. Some of the many areas covered are drugs, diseases, alcohol, tobacco, family living, mental health, environmental and community health problems. The course is designed to transmit knowledge and develop positive attitudes and behavior in health practices.

Grades Taught: 11 – 12

Alternative Program for Medical Limitations

According to the regulations of the Commissioner of New York State, activities must be adapted to meet the needs of students who are temporarily or permanently unable to participate in Physical Education. Any student medically excused with a doctor's note must fulfill their Physical Education requirement by completing written assignments for each period they have Physical Education. The purpose of this written work is to enrich the student so that he/she can comprehend the various skills, rules, safety precautions and group workmanship involved with a particular unit being taught in physical education class. Articles of interest will compliment class units and enlighten students with a varied spectrum of activity and sport folders that will provide students with a broader appreciation of fitness and wellness for a lifetime.

The following courses are adapted to provide for student needs and accommodations as specified in an Individual Education Plan (IEP)

Prerequisites: IEP, Current Teacher Approval, Department Chairperson/Supervisor Approval

1450 Health Education (½ Credit)

This course deals with current health practices and problems in our society. Many speakers from community health agencies contribute to the students' understanding of the present day health situations. Some of the many areas covered are drugs, diseases, alcohol, tobacco, family living, mental health, environmental and community health problems. The course is designed to transmit knowledge and develop positive attitude and behavior in health practices.

Grades Taught: 11 – 12

1151 Alternative Special Physical Education (Non Credited)

This course is designed to meet the state mandate for Physical Education. Students of varying physical and cognitive abilities participate in a curriculum based program of individual, team and group activities. The program is modified to meet student developmental needs and to enhance the learning environment for successful, active participation.

1152 Adaptive Physical Education (½ Credit)

Prerequisite: Annual Review IEP

This course is designed to meet the long term needs of students by providing a safe and modified environment for active, successful participation. Physical and fundamental motor skills/patterns, and skills in individual and group games and sports involve each student in positive wellness experiences

adapted to specific abilities. Needs can include: orthopedic, visual and hearing impairments, traumatic brain injury, other health impairments or multiple disabilities.

1153 Alternative Special Physical Education (½ Credit)

This course is designed to meet the state mandate for Physical Education. Students of varying physical and cognitive abilities participate in a curriculum based program of individual, team and group activities. The program is modified to meet student developmental needs and to enhance the learning environment for successful, active participation.

N.C.A.A. Academic Eligibility

In order to be eligible to compete athletically at NCAA Division I/II colleges/universities, our senior athletes should register with the NCAA Clearinghouse. The information packet, "The Game Plan; College Planning for the Student Athlete," is available in the Counseling Center.

PLEASE NOTE:

Student athletes must achieve a minimum grade point average of 2.0 in each of the 16 required core courses, as well as a qualifying score on the SAT or ACT.

Summary:

Student-athletes who do not meet these academic eligibility requirements and are planning to attend NCAA Division I or II colleges/universities are subject to the following restrictions in the freshman year:

1. May not be permitted to practice or compete athletically.
2. May not be permitted to receive any athletically related financial aid.
3. May lose one (1) full year of intercollegiate athletic eligibility: only three (3) years of athletic eligibility remain.

Division I:

16 Core Courses:
4 years of English
3 years of mathematics (Algebra 1 or higher)
2 years of natural/physical science (1 year of lab if offered by high school)
1 year of additional English, mathematics, or natural/physical science
2 years of social science
4 years of additional courses (from any area above or foreign language)

Junior ROTC Course Offering

The mission of Air Force Junior ROTC (AFJROTC) is to "Develop citizens of character dedicated to serving their nation and community." ***There is no military obligation associated with taking any AFJROTC course*.** The courses are open to both males and females in grades 11-12 and students can join at the beginning of either grade level. AFJROTC is accredited by AdvancED and the program will enable the students to:

- Develop a high degree of strong morals, self-esteem, self-reliance, personal appearance, and leadership
- Adhere to the values of integrity, service, and excellence
- Increase their understanding of patriotism and responsibilities as US citizens
- Participate in community service activities
- Expand their skills of critical thinking, problem solving, communication and collaboration, and creativity and innovation
- Demonstrate military customs, courtesies, and traditions and develop habits of order, discipline, and social skills
- Acquire a broad-based knowledge of aerospace studies and leadership education
- Cultivate a commitment to physical fitness and a healthy lifestyle

The curriculum includes a journey into aviation history, the science of flight, and exploring space. Leadership and management, health and wellness are included in each course. The program is designed to develop leadership traits and includes communication skills, life skills, and career opportunities. Other activities include field trips, guest speakers, fundraisers, drill teams, color guards, honor guards, model rocketry, astronomy, community service, etc. Students are required to wear the Air Force provided uniform one day a week and will also be issued textbooks and physical training clothing. Air Force appearance standards (haircuts, shaving, etc.) will apply.

There are opportunities to apply for grants and scholarships. Four-year college level Air Force ROTC scholarships and service academy nominations are possible for graduates who qualify.

Junior ROTC AIR FORCE

169151 Junior ROTC Air Force – Aerospace 1, Leadership I (1 Credit)
Not offered 2022 – 2023

This is an aviation history course that starts with ancient civilizations and flight and progresses to future developments in aerospace. The course also introduces military customs and courtesies, how to project a positive attitude and examines the principles of ethical and moral behavior. It provides strategies for effective note taking and study skills for academic success. Students will be introduces to civics and our national government and how the US Constitution protects our rights and freedoms as American citizens.

169152 Junior ROTC Air Force – Aerospace 2, Leadership II (1 Credit) Not offered 2022 – 2023

This science of flight course focuses on the principles of flight, aircraft components and flight motion and the control, differentiates between the different types of engines, how weather conditions affect flight, the effects of flight on the human body and flight navigation. The leadership portion is designed to improve communication, enhance awareness of self and others and provide fundamentals of leadership and followership.

169153 Junior ROTC Air Force – Aerospace 3, Leadership III (1 Credit) Offered 2022 – 2023

This exploring space course covers the United States and other countries space programs, astronomy, satellites, manned space programs, launch vehicles, space probes, the international space station, the Hubble telescope, space shuttles and basic orbital mechanics. The leadership portion helps students decide which career path to take after high school. Financial planning, resumes, college applications, interview processes, understanding contracts and how to apply for admission to college or vocational/technical school are also part of this course.

169154 Junior ROTC Air Force – Aerospace 4, Leadership IV (1 Credit) Not offered 2022 – 2023

This hands-on experience affords students the opportunity to put theories of previous leadership courses into practice. Planning, organizing, coordination, directing, controlling and decision making will be done by the students. They will put into practice their communication, decision making, personal interaction, managerial and organizational skills. The cultural studies portion introduces students to the world's cultures through the study of world affairs, regional studies and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns and human rights.

Eastern Long Island Academy of Applied Technology*

(*BOCES)

Occupational Education Course Offerings

Courses offered under the Board of Cooperative Education Services
Elective: 4 Credits Per Year /Grade Taught: 11 and 12

Through cooperative services in the Second Supervisory District, subsidized by the State, there is available to a pupil a wider choice of skill training with more technical equipment than any single school could afford. The following vocational and technical courses prepare a student for entering a vocation, immediately at graduation, with special skills in occupations currently in demand in our community. These courses need not, however, be terminal but may form the basis for further training at trade schools, technical institutes or colleges beyond the secondary school level. Please note there is a cost to the student for materials and equipment for some courses.

Locations offering specific courses are indicated as follows:

- Brookhaven Technical Center (BTC)
- H.B. Ward Technical Center (WTC)

THE FOLLOWING STANDARDS MUST BE MET IN ORDER FOR A STUDENT TO ATTEND THE ACADEMY OF APPLIED TECHNOLOGY*:

1. NO STUDENT may be absent 9 or more days during the current school year including any out-of-school suspensions.
2. Students must have sufficient credits to be classified as grade 12 in the appropriate chronological year.
    - There are a limited number of seats for grade 11 students wishing to pursue a two year program. Interested students should contact their counselor for more information.
3. ALL students and parents must sign an *Academy contract.
4. Current *Academy students may not exceed more than 12 days of absence in their current *Academy program.
    - Students with more than 12 days absence may be denied credits, certification or loss of eligibility to enroll in the second year of a two year program.

PLEASE NOTE: *The Academy of Applied Technology offers many excellent occupational programs, which Longwood High School fully endorses. However, there is a financial burden placed

on the district when *Academy students fail to attend regularly, yet Longwood must still pay the full Academy tuition fee of approximately $12,000 per student. Therefore, any *Academy student missing 6 or more days from the *Academy during the FIRST SIX WEEKS OF THE SCHOOL YEAR will be DROPPED from their *Academy program and rescheduled for a full day of classes at Longwood High School. In this eventuality, some study halls may need to be scheduled until second semester electives begin in January. NO 5th year seniors are eligible for *The Academy of Applied Technology.

1303A Animal Science 1 or 2 year program at BTC and WTC

Animal Science is designed to prepare students who are pursuing animal related careers and can be used as a college preparatory course for those interested in furthering their education in applied sciences. This course provides students with the opportunity to work with a wide variety of animals. Classroom environment simulates procedures performed in veterinary hospitals, grooming shops, and kennel facilities. Students are also provided with hands on experience with farm animals at Cornell Cooperative Extension and at local horse farms.

1308 Art, Design and Visual Communications 1 or 2 year program at BTC

Students enrolled in this course will learn the basics of layout and design, drawing, art composition, and color concepts through traditional and digital media while focusing on real design work experiences. Industry standard design software programs are introduced to provide students with basic foundation skills needed to enter the design field.

1355 Audio Production 1 or 2 year program at WTC

Audio Production is designed to give the student exposure to basic audio production techniques. This will be inclusive of live sound reinforcement, multi-track audio recording, as well as electronic instrumentation operation and composition basics. The student will play an active role as audio technician, engineer, and producer, learning the fundamentals using industry standard equipment such as audio mixing consoles, microphones, digital tape recorders as well as virtual multi-tracking and editing systems. Instruction will also cover equipment installation and maintenance. Students will write, produce, engineer, mix and master their own projects. These projects include sound reinforcement for theater and musical performance, sound mixing for in-studio television production and post-production, and original soundtrack composition for film, television, and the music industry.

1304 Auto Body Repair and Car Customizing 2 year program at WTC

This program gives students the opportunity to learn how to dismantle and reassemble damaged automobile components, straighten metal parts and car frames, straighten dents, use filler compounds, grinding techniques and preparing a car for the refinishing shop. Students will also learn how to select

and mix paint according to the latest EPA guidelines as well as the proper techniques in spray painting. Students will also gain hands-on experience in after-market auto accessory installation.

1305 Automotive Technology 2 year program at WTC

This two-year program meets requirements for Automotive Service Excellence (ASE) Certification and is certified by NATEF. The program provides students with theory and practice in the use of tools, special equipment, technical manuals, computerized service equipment, service specifications, diagnosis and methods of repair through teamwork, problem solving and critical thinking skills. Students will be prepared for The National Institute for Auto Service Excellence examination and have the option to be approved by the NYS Department of Motor Vehicles in NY State Inspection. High achieving juniors will have the opportunity to enter the AYES Program, which is a two-year apprentice program, administered through The Academy with local dealerships, similar to cooperative learning.

Note: Students who complete Transportation Systems (1206), Land Transportation (1214), Auto Services 1 & 2 (1215/1216) at Longwood High School may complete the Automotive Technology Course at BOCES in 1 year. Students should see their counselor regarding TECH PREP Advance Standing Opportunities with Colleges (Articulation Agreements).

1306 Aviation/Professional Pilot Training 2 year program at BTC

The students will study aerodynamics, navigation, meteorology and aviation physiology, airplane performance and air traffic control procedures. They will operate actual aircraft as well as flight simulators. All students will take the FAA Private Pilot's Written Exam (FAA testing procedures apply) at the end of the first year.

Second Year Option: Only those students, who have met the eligibility requirements, demonstrate the ability and have a strong desire to become aviation professionals will be offered a second year program. The second year student may be given the opportunity to earn a Private Pilot's Certificate and work with business and local industry in an aviation related capacity.

1360 Barbering 1 year program at BTC

This course is a combination of classroom instruction and laboratory opportunities that will develop academic and professional knowledge as well as skills required for job acquisition, retention and advancement. This program emphasizes specialized training in safety, sanitation, shaving, reception,

precision scissor and clipper cutting, sales, and create opportunities for small business ownership. The curriculum is designed to give an overview of the barbering industry, licensing and the opportunities for professional growth. Students who successfully complete this 500 hour course will be eligible to sit for the New York State Licensing Board Exam. ***Students must be at least 17 years of age to take the New York State Barber Practical Examination.***

1309 Carpentry/ Residential Construction and Home Improvement 2 year program at BTC

The carpentry program is a combination of hands-on skill development and technical training in order to prepare students for entry level employment or higher in residential construction, home improvements and related fields. Students will actively build and/or renovate a three bedroom, Energy Star rated ranch on site using Brookhaven Town and Energy Star building codes. Both renovation and alteration of existing residential structures are taught, and students evaluate their own work and keep an active portfolio as well as a notebook. Students have the option of taking the National Center for Construction Education Research (NCCER) exam to be placed on the NCCER National Registry. The Registry provides valuable industry credentials for students as they seek employment and build their careers.

1352 Certified Personal Trainer 1 or 2 year program at BTC

This physical course includes anatomy, kinesiology, injury prevention, supplementation and nutrition, and all aspects of weight and strength training. A world-renowned staff of researchers, scientists, sports medicine specialists and world champion athletes created the program. This course is specifically designed to bridge the gap between clinical exercise related course work and the practical application of sound health and fitness programming. Students will have an opportunity to earn a nationally recognized certification from the International Sports Sciences Association upon successful completion of the course. The second year will infuse the latest technologies from health care and fitness realms into the Certified Personal Training curriculum. Once certified, students will have the opportunity to provide a supervised fitness program designed around a medical condition. Students will have the opportunity to earn a certification in Fitness/Exercise Therapy from the International Sports Sciences Association upon successful completion of this course.

1324 Clinical Medical Assisting 1 year program at WTC

This course is designed to provide basic training in the areas of phlebotomy, EKG, medical terminology, first aid/CPR and medical assisting. It enables students to become nationally certified by the Certified Health Professionals (CHP). Emphasis is placed on preparing students for work in the health care industry. It provides fundamental theories and principles needed by all health care providers in the legal aspects of the industry, as well as professional behavior skills. Safety is

emphasized throughout the course. Students who successfully complete Clinical Medical Assisting and Nurse Assisting courses may be eligible for Patient Care Technician certification.

1318 Computer Science and App Development 1 year program at BTC

Students will be exposed to a divers set of computational thinking concepts, fundamentals and tools, allowing them to gain understanding and build confidence. Students use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites and learn how to integrate computers to put their design into practice. This course will also focus on further developing computational thinking skills through the medium of Android App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java programming language, XML and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. Projects and problems include app development, visualization of data, cybersecurity and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP Computer Science Principles (AP CSP). This endorsement affirms that all components of PLTW Computer Science Program's offerings are aligned to the AP Curriculum Framework standards and the AP CSP assessment. This course also aligns with the AP CS S course.

1311 Computer Repair and Networking 1 or 2 year program at BTC

This combined course is designed to prepare students with practical experiences and related theory leading to an entry-level position as a Computer Repair Technician. Students will learn how to use test equipment and software to troubleshoot and correct common personal computer problems. Students will receive the necessary instruction to prepare for the A+ Certification exam at the completion of Year 1. The A+ Certification is recognized industry-wide and represents six months of work-related experience. This course is also designed to give students core knowledge of information systems which include digital communication skills such as web design and development and project management. If students return for the second year of the program, they will prepare for the Network + Certification.

1314 Cosmetology 2 year program at WTC

Instruction is provided along with hands-on experience in hair shaping, styling, and chemical services, including hair coloring, permanent waving and chemical relaxing. Encompassed within the curriculum are treatments for the hair and scalp, facials, all aspects of makeup, nail care, and artificial nails. The course also teaches the business and science-related aspects of cosmetology and salon management. A cosmetology license qualifies graduates to work with hair, skin and nails, as well as allows specialization in any area of cosmetology. This license will unlock countless doors within the beauty industry. Students who successfully complete this 1,000 hour course over two years will be eligible to sit for the New York State Board Licensing Exam.

1320 Culinary Arts/Restaurant Operations Management 2 year program at WTC

Our program begins with baking and pastry arts and moves into complete food preparation and management techniques. Students gain an understanding of baking and cake decorating, nutrition, menu planning, catering, dining food service, food production, as well as safety and sanitation codes. Second year students are prepared to take the National Restaurant ServSafe test. The program has the accreditation of the American Culinary Federation (ACF) which provides students with the opportunity to earn a Certified Junior Culinarian (CJC) certificate. The program is also associated with the New York State Restaurant Association (NYSRA) Educational Foundation Pro Start Program, which provides students with work experience necessary to succeed in the workplace.

1315 Dental Chairside Assisting 1 year program at BTC

Students will learn how to work chair-side with the dentist, prepare dental materials, perform basic business procedures, prepare client's data (i.e., processing insurance forms) and provides practical experience in radiology and four-handed dentistry. A simulated environment equipped with the most current equipment and software is the setting in which skills are taught with a strong emphasis on patient care and business application. Experience is gained during private practice and/or clinic affiliation. This program will prepare students for a course of study in higher education for the New York State Dental Assisting Licensing Program.

1310 Early Childhood Education 1 or 2 year program at WTC

This course is designed to prepare students for careers as teachers or child care providers in early childhood education. The study of child development is included by direct hands-on experience with children in our on-site preschool. A second year option is available which prepares students to work toward the Child Development Associate (CDA), a nationally recognized credential that will qualify candidates to meet all state licensing requirements to work as a child care professional in any early childhood program in the United States. Students in the second year program participate in community-based internships to explore varied educational settings and student groups.

Note: Eligibility for second year option requires a minimum grade average of 80 for the first year of Early Childhood, a Certificate of Completion of the first year program, and the recommendation of the teachers.

1331 Electrical Trade and Alternative Energy 2 year program at BTC and WTC

This program is a combination of hands-on skill development and technical training in order to prepare students for entry-level employment or higher in the electrical trade. Students gain practice in

traditional wiring methods and blueprint reading, as well as learn the latest renewable energy concepts including solar, wind, and geothermal technologies. Energy conservation methods and technological changes driving future energy careers are an integral part of this program.

Students have the option of taking the National Center for Construction Education Research (NCCER) exam to be placed on the NCCER National Registry. The Registry provides valuable industry credentials for students as they seek employment and build their careers.

1319 Fashion Merchandising and Design 1 or 2 year program at BTC

This course provides skills and experience in retail operations, merchandising display and apparel design. Students cut, sew and design their own garments, demonstrate the forecasting of fashion, visually create a fashion display, illustrate sample garments for their portfolio, perform basic business procedures needed for any retail operation, and work cooperatively as a team member to run a successful retail store.

1302 Heating, Ventilation and Air Conditioning (HVAC) 1 or 2 year program at BTC and WTC

This program includes the installation, service and repair of air conditioning, cooling, heat pump systems and electrical theory and service. An integral part of this program involves green technologies including geothermal and solar hot water heating indoor air quality and HEPA filtration, as well as air sealing techniques. Students are prepared to take the EPA Certification Test for the handling of refrigerants. Students have the option of taking the Nacional Center for Construction Education Research (NCCER) exam and being placed on the NCCER National Registry. The Registry provides valuable industry credentials for students as they seek employment and build their careers.

1322 Law Enforcement 1 or 2 year program at BTC and WTC

This is a broad based program for students with an interest in criminal justice, law enforcement, public safety and other related legal careers. The program includes the study of civil and criminal law providing a strong foundation for entry into the security field or for advanced training at a police academy or college. As a New York State Approved Security Guard school, students who qualify are provided an opportunity to pass the Security Guard certification exam, as well as the International Federation of Protection Officers (IFPO) exam and AOCO exam, which is a national telecommunication (911) certification. Both the IFPO and APCO certifications are nationally recognized and are offered in the second year of the program, which also includes forensics and crime scene investigations.

1323 Marine/Motorsports Technology 1 or 2 year program at BTC

Instruction will introduce and reinforce core knowledge in engine systems, drive systems, electrical and electronics systems, fuel systems, fabrication and engine machining. Students will learn how things are built, how they work and how to approach a repair. Students will have the opportunity to utilize our engine dynamometers to reinforce theory and prove performance modifications. Graduates will leave with the knowledge required to enter a broad array of the motorsports trades including automotive, marine, motorcycle and heavy equipment. Take advantage of our highly successful work study program and work in the industry with senior technicians while you are still in high school.

1326 Nurse Assisting 1 year program at WTC

This course is designed to prepare the student to be employed as a Nurse Assistant. Basic aspects of health care include procedures used in the care of patients such as: bathing, positioning, moving, transferring and monitoring vital signs. A hands-on approach with a laboratory component as well as practical applications of theory are emphasized. Clinical affiliations with various health care institutions further enhance this approach. This course is an entry level program in the field of nursing. This course prepares students for New York State Nurse Aide Certification. Students who successfully complete Nurse Assisting and Clinical Medical Assisting courses may be eligible for Patient Care Technician certification.

All students must take and pass an Entrance exam on Reading and Math skills in the Spring prior to entrance as a High School Senior.

1325 Physical Therapy Aide 1 year program at BTC

Physical Therapy is a growing part of the medical industry. Physical therapy Aides are a crucial part of the physical therapy team. They assist physical therapists in delivering quality care to patients. Responsibilities of the Physical Therapy Aide include moving patients from one therapy area to another, preparing and organizing the location for the patient's session, setting up any needed equipment, assisting with the patient's treatment session, and fulfilling office clerical duties such as ordering supplies or contacting patients to set up or confirm appointments. Students will learn theoretical concepts, practice skills and experience first-hand patient skills in a clinical setting.

1327 Plumbing 1 year program at BTC

This program is designed for students interested in the installing, servicing and repairing of domestic sanitation systems, water heaters and home plumbing systems. Students will also receive training on the latest trade-related green technology, as well as efficient appliances, retrofitting to increase water

efficiency, and resource conservation. The program uses OSHA standards as the foundation for workplace safety instruction, and the students have the opportunity to earn their OSHA-10 card.

1328 Practical Nursing 17 month program at BTC

This is a 17 month program that begins in the student's senior year. In the first year of the program, the student will learn the necessary basic nursing skills to care for patients based on the principles of the biological, physical and social sciences and includes a clinical experience in affiliate hospitals. The second phase of the program (September- March) following high school graduation is a theory/clinical experience. Students participate in theory/clinical learning activities from 7:45 a.m. - 2:30 p.m., Monday through Friday at affiliate hospitals and health-related facilities. A graduate is eligible to take the New York State Licensure examination for licensure as a Licensed Practical Nurse (LPN) after successful completion of 1,260 hours of instruction and all program requirements. A preparatory course for the nursing entrance examination is offered at Eastern Suffolk BOCES.

All applicants must take and pass a nursing entrance exam: Test of Essential Academic Skills (TEAS) in the spring prior to entrance into the Practical Nursing Program.

1329 Professional Photography/Digital Photography 1 or 2 year program at BTC

This course will focus on cultivating students' styles, techniques, personal aesthetics, and personal growth using photographic imaging by enabling students to become critical thinkers using photography as means of inquiry. Students will gain an understanding of photography from historical to recent criticism and understand its social implications. Both fine art photography and commercial photography (business side of photography industry) will be covered, with a strong emphasis placed on studio lighting, location lighting, black and white darkroom and developing (including alternative processes) and digital imagery. Analog photography will serve as the foundation for understanding the photographic process, film cameras, and darkroom printing before moving to digital photography using a Macintosh platform and Photoshop software. Problem solving, originality, and collaboration will be an integral part of in-class exercises, reading, assignments, presentations, critiques and independent projects.

1332 Television, Video and Digital Film Production 1 or 2 year program at BTC

This course involves all phases of television production including planning, shooting and editing. Students will learn techniques in studio production, electronic journalism and digital film-making. Working in our 30´ x 40´ studio, students will play an active role in the production of cable-ready talk and variety shows, and promotional videos. In addition to working in the studio, students use professional field cameras, sound and lighting equipment to create your own news stories, public

service announcements, and short documentaries. This course offers valuable techniques and hands-on experience, which prepares students for an entry level position and/or advanced college placement. Internships are available at local media outlets.

Note: Students who complete Communications Systems (1202) and Media Production 1 & 2 (1225) at Longwood High School may be eligible to complete the Television Production program at BOCES in one year.

Alternate Learning Program Course Offerings

Introduction: The main focus of this program is to develop each student's personal best for effective life and work skills. Experience will integrate the individual's growth with academic and vocational learning, in accordance with an I.E.P.

1500 Basic Computer Skills

This computer course provides students with an introduction to basic computer skills including basic machine operation, basic program operation (Word) and proper/safe usage of the computer as a tool for learning.

1520 Basic Keyboarding

This keyboarding course provides students with an introduction to the keyboard (letters, numbers, and symbols), basic machine operations, and proper keystroke technique.

1541 Basic Reading

This course is designed to enable the student to acquire reading skills necessary for daily living. The student will increase his recognition of sight and survival words, improve decoding and structural analysis of words, and expand his receptive and expressive vocabulary. The student will read stories, books, maps, charts, advertisements, graphs, newspapers, magazines, and learn to use the library for reading enjoyment and information. Reading comprehension skills will be developed as the student reads material of various subjects to find the main ideas, note details, and summarize what was read.

1542 Basic Health

This course is to develop the student's awareness of basic health concepts so he may develop a positive attitude and participate in activities for his own well-being. Personal hygiene, nutrition, mental health, first aid, diseases, drugs, alcohol, exercise, and environmental and community health practices and problems in our society will be examined.

1543 Basic Science

This course is to develop the student's awareness of scientific aspects of the world in which they live, and to expand the student's awareness of man and his environment. Topics will include traits of living

things and their relationship in the environment, different kinds of life and body systems, plants and their functions and weather and how it affects man. Experimental activities, such as recycling, are designed to develop understanding.

1544 Basic Social Studies

This course is designed to develop the student's attitude, skills, and concepts necessary to live as a citizen, a family member, an employee, and to be an active participant in our society. The student will expand concepts for daily living, self and career awareness, understanding of United States History, the world, government and economic systems and the geography of the land. Learning will involve map study, field trips, solving problems in daily living, and working in different jobs in our school. Current events, respect for laws, and our constitution will be examined.

1546 Basic Math

This course is designed to enable the student to acquire math skills needed for daily living. The student will develop his basic computational skills, and solve problems regarding time and measurement. Money in the marketplace, calculating money earned, and banking services will be studied. Concrete materials and instructional tasks will be used to facilitate understanding.

1540 Basic Independent Living

Are you ready to live on your own? This course is for anyone planning to live away from home, whether in a college dorm, house or apartment. Students analyze want-ads to find housing, furnishings, a car and a job. After setting up individual "living situations," students learn to cope with roommate problems, consumer problems, balancing a checkbook, paying bills and food shopping on a budget. Students will work in groups to demonstrate clothing or home care and repair tasks and to create and serve great meals on a tight budget. Learning to recognize healthy life-styles and practicing good management skills will help students prepare for the responsibilities of independent living.

1550 Basic Home Economics

This course is to develop the student's ability to establish effective skills in the home to improve the quality of life for the individual and family. Students will observe and practice basic cooking skills, develop an awareness of nutrition, food safety, meal planning, washing and ironing clothing, house cleaning, food shopping skills, and dealing with consumer problems. Students are required to practice these management skills to prepare for the responsibilities of independent living.

1553 Basic Art

Specialized Art provides the student with opportunities to develop self-expression and confidence, by taking risks, making choices, and expressing personal points of view by creating original works of art. The student will explore markers, paint, yarn, wood, clay and other media and materials to develop understandings and skills of two and three dimensional space, perceptual and fine motor skills. Art projects will be interrelated with other subject areas and include experiences in drawing, painting, weaving, mixed media and crafts. This course will require the completion of selected projects.

1560 Basic Social Skills (Pass/Fail). Full Year – 1 Period

This course is designed to meet individual needs of students in developing and strengthening skills necessary to live and work effectively with others. Students learn conversation skills, assertiveness skills such as making requests, asking for help or refusing a request appropriately. Learning conflict resolution and interpersonal skills such as giving and accepting compliments, finding common interests, and seeing situations from others' perspectives will also be developed.

1561 Basic Academics (Numeric grades). Full Year – 1 Period

This course is designed to increase independence in areas related to academics and learning. Students learn to use tools designed to help them become and stay organized. Through guided practice, students learn how to manage their time to complete assignments and tasks independently. Students will also learn how to prioritize tasks and self-monitor to increase their ability to complete tasks independently.

1554 Basic Art Appreciation

This course provides students with opportunities to build social and language skills through performing arts that may include, but are not limited to dance, drama, and music. Students will participate in various activities designed to target specific social and daily living skills. Students will be exposed to a variety of instruments and music to help develop appropriate leisure skills and expand interests. This course requires students to consistently engage and participate in class activities with varied prompt levels based on individualized student needs.

1151 Alternative Special Physical Education (Non Credited)

This course is designed to meet the state mandate for Physical Education. Students of varying physical and cognitive abilities participate in a curriculum based program of individual, team and group activities. The program is modified to meet student developmental needs and to enhance the learning environment for successful, active participation.

A Work-Based Learning Program is:

- Focused on the process that moves students from just thinking about a career and their future, to actively seeking a career and developing the skills needed to be successful in their chosen career.
- A structured opportunity to focus on career development through hands-on experience at a work site.
- A real-life connection between the classroom, workplace and the community.
- An opportunity to build a student's confidence, self-esteem and independence.

1548 Work Experience

This course is designed to develop job skills at a worksite through the supervision and guidance of a job coach. Students will learn about the world of work and career opportunities related to interests and vocational aptitude. Workforce readiness skills are developed through on-site participation. This course is a full year and participation is determined at CSE. Job sites are community-based and assigned based on availability and student's needs and interests. All work is unpaid.

Longwood Career Center

The purpose of the Longwood Career Center is to expose students to different types of work environments. This is done through instructional simulations similar to those seen in the workforce. Parallel tasks allow students to understand the routines and procedures that are necessary to become independent and successful. Students engage in hands-on assignments that explore interests and abilities. Work tasks are created to give students a "real life" feeling of the responsibilities of obtaining, having and maintaining a job. Students can explore an array of job areas such as: food industry service, hospitality, customer service, clerical, computer/graphic designs, workshop, as well as being involved with a PAES lab, job readiness activities and job skill development.

1547 Longwood Career Center

The Longwood Career Center will expose students to different types of work environments through vocational simulations. Students will practice the routines and job-readiness skills that are necessary to become independent in the work force. Students will explore vocational interests and abilities through hand-on activities and vocational tasks. Job areas may include: food industry service, hospitality, customer service, clerical and computer/graphic designs. Vocational and aptitude assessments are essential components to enrollment at the Longwood career Center.

1562 Job Skills (Pass/Fail). Full Year – 2 Periods

This course is designed to develop the necessary skills, understandings and attitudes for students to be successful in the work force. Students are placed in various job situations throughout the building where they learn how to effectively communicate with coworkers and how to respond to suggestions from a supervisor. Through real life experience, students become able to assess the accuracy of their work. They become responsible for on time arrival, utilization of their time to meet deadlines and get jobs done on a daily and weekly basis.

Longwood High School
Co-Curricular Clubs
2024-25

Category A - ACTIVITY/CLUB	ADVISOR
Grade 12 Class Advisor (Class of 2024)	Ms. Allone, Ms. Tufaro
Grade 11 Class Advisor (Class of 2025)	Dr. Kozlowski, Ms. Montesano
Grade 10 Class Advisor (Class of 2026)	Mr. Conti, Ms. Greenberg
Grade 9 Class Advisor (Class of 2027)	Ms. Hoch, Ms. Skadl
Band - 9th and 10th Grade	Ms. Malvagno
Band - 11th and 12th Grade	Mr. Wilbur
Central Treasurer	Ms. Gartland , Ms. Rumfola
Chorus - 9th and 10th Grade	Mr. Burt
Chorus - 11th and 12th Grade	Mr. Sparks
Flag Line	Ms. Burns
Marching Band	Ms. Malvagno, Mr. Wilbur
National Honor Society	Ms. Falcone, Ms. Segura
Orchestra - 9th and 10th Grade	Mr. Zebrowski
Orchestra - 11th and 12th Grade	Ms. Burns
Photo Journalism	Ms. Bussewitz, Ms. Cronin
Student Council	Ms. Ortiz
Yearbook	Ms. Day, Mr. Holschuh
Category B - ACTIVITY/CLUB	**ADVISOR**
African American Culture Club	Mr. Smith
AP Writing Club	Mr. Braun, Ms. Camarco, Ms. Streim
Art Club	Ms. Hall, Ms. Lulenski
Bridge Club (Bridge JHS/HS Nat'l Honor Society)	Ms. Falcone, Ms. Segura
BUTY (Bringing Unity to Youth)	Ms. Hoch, Mr. Gonzalez Bonilla
Cartooning Club	Mr. Viollis
Chamber Orchestra	Ms. Burns
Chess Club	Mr. Matthews
Choral Lions – 9th - 12th Grade	Mr. Sparks
Coding Club	Ms. Campo, Mr. Beecher
Debate Club	Mr. Samuels, Ms. Milano
Environmental Club	Mr. Suarez, Ms. Valentino
Event Preparation Crew	Ms. Allone, Mr. Conti, Ms. Greenberg, Ms. Hoch, Dr. Kozlowski, Ms. Montesano, Ms. Skadl, Ms. Tufaro
Fab Lab/Manufacturing and Fabrication	Mr. Garofalo
Finance Club	Mr. Leyhane, Mr. Makarius
FBLA/National Business Honor Society	Mr. Johnson, Ms. Rumfola
Gaming Club	Mr. Samuels, Ms. Cavanaugh
GSA Club (Gay-Straight Alliance)	Ms. Skadl, Ms. Goepfert
Heritage Student Alliance Club	Mr. Rodriguez, Ms. Lott
Jam Session Club	Mr. Zebrowski
Jazz Band	Mr. Zebrowski

Category B - ACTIVITY/CLUB	ADVISOR
JV STEP Squad	Ms. Leader
Literary Club	Ms. Camarco, Ms. Galeas
Math Club	Mr. Kiang
Military Discovery Club	Ms. Kennedy, Ms. Lemire
Moot Court Club	Ms. Bolen, Mr. Chan
National Art Honor Society	Ms. Bussewitz, Ms. Lulenski
Outdoor Education Club	Mr. Dillon
Pawsitive Pride PBIS Club	Ms. Hernandez, Ms. Reilly, Ms. Savarese, Mr. Smith
Princeton Model Congress	Mr. Braun
Rotary Interact	Mr. Heinrichs, Ms. Streim
School Store	Ms. DiLeonardo, Laura Giovia
Science Bowl	Mr. Alkon
Science Club	Mr. Bloom, Ms. Irwin
STEM Club for Girls	Ms. K. Reilly
Strength and Conditioning Club (Weights)	Mr. Smith
TRI-M (Musical Honor Society)	Ms. Malvagno
Wellness Club	Ms. L. Reilly, Ms. Hernandez
Women's Empowerment Club	Ms. L. Reilly
World Culture & Language Club/ Foreign Language Honor Society	Ms. Montesano, Ms. Portal
Writing Lab Club	Ms. Piscitelli, Ms. Skadl
Yoga/Pilates Exercise Club	Ms. Sheldon
ADDITIONAL CLUBS	
Best Buddies Club	Ms. Gentile, Ms. Knudsen
Esports	
Robotics	Mr. Hirdt, Ms. Stehle
Robolions	Mr. Hirdt, Ms. Stehle
Take a Look at Teaching (TALAT)	Ms. K. Reilly, Ms. Camarco