CINCINNATUS CENTRAL SCHOOL



Course Description Handbook

2024-2025

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PURPOSE

This handbook describes the courses offered by Cincinnatus High School. Please read each description carefully before you begin your high school program. Ask questions of your counselor or teachers if you want additional information about specific courses and how they may fit into your career plans. As you make decisions regarding your program, you should discuss your choices with your counselor and your parents/guardians. Together, you can plan a program that meets both your immediate and long-term goals.

SCHOOL COUNSELING SERVICES

The School Counseling Department at Cincinnatus Central School provides students and parents with a wide variety of services, including:

A andomia program planning
Academic program planning
Career counseling
College advisement and financial planning
Standardized testing navigation
Personal counseling
Referral to helping agencies
Crisis Intervention
Consultation

COURSE SELECTION

As you begin to select courses, there are many factors to consider. Course selection is related to your goals, learning needs and your post secondary plans. What courses will help you learn in the best way for you as well as help you reach your goals and provide an opportunity to learn and grow as a student? What are your plans for after you graduate? Will you attend college? Do you plan to attend BOCES and go into the workforce? Does a gap year sound interesting? Maybe you have plans to enter the military. Will you do so after a semester or two of college or before college? Do you know what type of focus you will have once in the military?

Naviance is a tool we will use with you to explore your interests and assist you in your career goals. Through the career exploration you will hopefully find an area of interest and choose courses that help you expand on your career interests. Attending a vocational program at BOCES may be what you are interested in pursuing as a junior. Consideration of BOCES programs begins in ninth and tenth grade to ensure you select the right courses.

Your counselor will use your transcript to determine the courses you still need to take for graduation. This is the official record of your courses, grades and test results for all high school courses. This document is used each year to plan next year's course selection.

This is also an important time to share your thoughts with the adults in your life. Please make sure to review your course selections with your parents/guardians.

SPECIAL AND ADVANCED PROGRAMS

In addition to the regularly scheduled offerings, the following programs are available.

College Courses

Eleventh grade students have opportunities at Tompkins-Cortland Community College to take college-level courses on a college campus while still in high school. The decision to leave the Cincinnatus School campus to attend the above college is a decision made in conjunction with parents/guardians. **All financial obligations as well as transportation needs will be provided by the family, not CCS.** Students enrolling in courses of this type typically spend part of their day at Cincy and then travel to the college campus. Grades will be provided through the college at the end of each semester and it is the responsibility of the student to provide Cincinnatus CS with a copy of each grade report received. It is important to plan this process carefully to make sure you will have all of the requirements necessary to fulfill any graduation requirements before graduation.

Concurrent Enrollment Courses

Concurrent Enrollment Courses are college courses taught at Cincinnatus High School by our teachers and students earn college and high school credit by completing each course. At present, Cincinnatus offers the following concurrent enrollment courses: College Writing, College Literature, College Algebra and Trigonometry, Pre-Calculus, Calculus I and II, Advanced Art II, Photojournalism, Physics, Global History II, AP Government and Politics, AP U.S. History, and College Biology. No fee is involved, but students must show residency in Cortland County or complete the necessary forms if a resident of another county. It is important to plan this process carefully to make sure you will have all of the requirements necessary to fulfill any graduation requirements before graduation. Grades will be reported on a high school transcript as well as a college transcript. Students are responsible for requesting the college transcripts for any credit transfer opportunities with future colleges.

Academic Intervention Services (AIS)

Academic Intervention Services are provided to assist students in successfully meeting the New York State learning standards and graduation requirements. Students qualify for AIS by scoring below a designated level on the New York State Intermediate (Grade 8) assessments in English Language Arts, Mathematics, Social Studies, and Science or on any of the Regents exams needed for graduation. Additional instruction and support is provided in these subjects, during the school day.

STANDARDIZED TESTS

We recommend that all students take the Preliminary Scholastic Aptitude Test (PSAT) in the fall of their sophomore or junior year. As juniors, the PSAT is the qualifying exam for the National Merit Scholarship Program. There are two other college entrance exams to consider: Scholastic Aptitude Test (SAT) and/or the American College Test (ACT). These are offered throughout the calendar year and require students to register in advance on the computer. Students are encouraged to see their school counselor to determine which test is most appropriate or if you have questions or concerns.

GRADUATION REQUIREMENTS

In order to earn a high school diploma, students must earn a minimum of 22 units of credit, in the following manner:

English	4 credits
Social Studies	4 credits
Mathematics	3 credits
Science	3 credits
Health	0.5 credit
Art or Music	1 credit
LOTE (Languages Other Than English)	1 credit
Physical Education	2 credits
Electives	3.5 credits

Cincinnatus Central School requires all students to take and pass **any Technology or Agriculture course**. The credit for this course is included in the credits for electives.

Two of the three required units of credit in Science must reflect the following:

- (1) at least one unit of credit in life science (aligned to the State's living environment standards);
- (2) at least one unit of credit in physical science (aligned to the State's physical setting standards).

In addition, students opting for a Regents diploma *with advanced designation* must earn EITHER three units of credit in one language other than English OR five units of credit in art, music, or career and technical education (workforce prep courses or computer technology courses).

TYPES OF DIPLOMAS

Regents Diploma with Advanced Designation:

Students must score 65 or above on 8 Regents exams and earn 22 units of credit.

Students are required to take and pass the following: Two Regents exams in Science, three Regents exams in Math, the Global Studies Regents exam (grade 10), the US History & Government Regents exam (grade 11), and the Comprehensive English Regents exam (grade 11).

Regents Diploma:

Students must score 65 or above on 5 Regents exams and earn 22 units of credit.

Students are required to take and pass: one Regents exam in Science, Math, Global Studies (grade 10), US History & Government (grade 11), Comprehensive English (grade 11).

Local Diploma (Special Education students only):

Students must score 55-64 on 5 Regents exams and earn 22 units of credit.

Other Requirements:

Students in grades 9-11 are expected to take <u>SIX</u> subjects each year in addition to Physical Education Seniors must take <u>FIVE</u> subjects each year in addition to Physical Education.

Exiting Credential Requirements (Special Education students only):

<u>Career Development and Occupational Studies:</u> Students with disabilities are able to earn a New York State (NYS) Career Development and Occupational Studies (CDOS) Commencement Credential. This credential recognizes each individual student's preparation and skills for employment. Where in the past, many students graduated with an individualized education program (IEP) diploma, this credential provides a more meaningful substitute for these students. For students with disabilities who are exiting with a regular high school diploma, it provides them with the additional opportunity to exit school with a credential that also recognizes the students' work readiness skills.

Skills and Achievement Commencement Credential: For those students with disabilities who are eligible to participate in the New York State Alternative Assessments, the Skills and Achievement Commencement Credential (SACC) provides students with a commencement certificate similar in form to the diploma issued by the school district. The Skills and Achievement Commencement Credential must be accompanied by documentation of the student's skills and strengths and levels of independence in academic, career development and foundation skills needed for post-school living, learning and working.

Special Endorsements

Honors: A student earns a computed average of at least 90 on the Regents Exams applicable to either a Regent diploma or a Regents diploma with advanced designation. No more than 2 Department approved alternatives can be substituted for Regents Exams. The locally developed Checkpoint B exam in World Languages is NOT included in the calculation.

Mastery in Math and/or Science: A student meets all requirements for a Regents diploma with advanced designation AND earns a score of 85 or better on 3 math Regents Exams and /or 3 science Regents Exams.

Technical Endorsement: A student meets the requirements for either a local diploma, a Regents diploma or a Regents diploma with advanced designation AND successfully completes a Department approved CTE program including the 3 part technical assessment.

Seal of Biliteracy: A student meets the criteria for earning the NYS Seal of Biliteracy through their work in French or Spanish.

Seal of Civic Readiness: A student meets the criteria for earning the NYS Seal of Civic Readiness through their work in Social Studies classes and an assigned advisor.

CLASS RANK - G.P.A.

Students receive a weighted average their senior year to determine class rank and G.P.A. (grade point average) for college and scholarship applications. Final class rank is determined after the 2nd marking period of their senior year (seven semesters).

Courses are weighted as follows:

1.10 Advanced Placement courses, College Level Courses (College Writing, College Literature, College Algebra and Trigonometry, Pre-Calculus, Calculus I and II, Advanced Art II, Photojournalism, Physics, Global History II, AP Government and Politics, AP U.S. History, and College Biology).

1.05 Honors classes

1.00 All other courses

PROMOTION GUIDELINES

To be considered a 10^{th} grader, a student needs to have passed English 9 or Global History and Geography I and earned a minimum of $4\frac{1}{2}$ credits.

To be considered an 11^{th} grader, a student needs to have passed English 10 or Global History and Geography II and earned a minimum of $9\frac{1}{2}$ credits.

To be considered a 12th grader, a student needs to have passed English 11 or United States History and Government and earned a minimum of 15 credits.

Students may need to take any failed courses again, either during the summer or during the next academic year.

COURSE OFFERINGS

ENGLISH LANGUAGE ARTS

Contemporary Classics

Grade level: 9/10 (Section 1 in grade 9, section 2 in grade 10)

Prerequisite: English 8

This half year course will focus on some of the most famous works of literature in the English Language. The course will feature many of the major works of literature that most high school students read before graduating from high school. Titles may include To Kill a Mockingbird, Night, Animal Farm, The Old Man and the Sea, and Lord of the Flies.

Reading and Writing in Sports Literature

Grade level: 9/10 (Section 1 in grade 9, section 2 in grade 10)

Prerequisite: English 8

This half year course will survey major authors and styles in sports literature. This course will try to answer the following questions: What role do sports play in our society? What role do sports have in our individual lives? What is the definition of sport? How has the concept of sport changed through the years? Is there a national sport in the United States? Do sports unify us or divide us? How and why have athletes chosen to use sports as a platform for societal change? Units focus on: Endurance and Strength, Fandom, and Sports in Society and Culture.

Suspense, Horror, and Gothic Literature:

Grade level: 9/10 (Section 1 in grade 9, section 2 in grade 10)

Prerequisite: English 8

This half year course will survey major authors and styles in the genre of suspense, horror, and gothic literature. This course will try to answer the following questions: How do we define suspense, horror, and gothic literature? What is the allure of fear? How does imagination overcome reason? When does uncertainty develop into fear? What is transformation, and why is it frightening? Titles may include Bird Box, Carrie, Blood Meridian.

Literature and Life

Grade level: 9/10 (Section 1 in grade 9, section 2 in grade 10)

Prerequisite: English 8

The primary objective of this course on Literature and Life is to help learners make sense of their own lives through the prism of literature. Hence, it will explore the interconnections between literature and life to understand and appreciate the complex but fragile human relationships at various levels like the individual, family, society, business, politics, etc., as represented in selected essays, poems, plays and short stories, and novels.

Poetry

Grade level: 9-12 Prerequisite: English 8

This course will take a thorough dive into reading, interpreting, and writing poetry. The course will focus on a wide selection of poets and books written in verse.

Dystopian Literature

Grade level: 9/10 (Section 1 in grade 9, section 2 in grade 10)

Prerequisite: English 8

This half year course will survey authors and styles related to the popular genre. Throughout this course we will read to analyze the imaginary worlds that provide commentary on the current trends, political systems, or popular culture of modern times.

Literature of Conflict

Grade level: 9/10 (Section 1 in grade 9, section 2 in grade 10)

Prerequisite: English 8

This half year course will survey authors and styles related to various world conflicts and wars. Throughout this course we will read articles, short stories, poems, and novels about both war and peace from a variety of perspectives. We will reflect on the nature of conflict itself, the ongoing conflict between war and peace, and the effects of conflicts on those involved.

Mythology

Grade level: 9/10 (Section 1 in grade 9, section 2 in grade 10)

Prerequisite: English 8

This half year course will survey myths and legends from around the world. We will analyze and discuss the origins and functions of mythology in various cultures.

English 11

Grade level: 11 Number of weeks: 40

Prerequisite: English 10

Number of credits: 1

Eleventh grade English focuses on the study of American literature. Students will examine various genres of literature, including short stories, novels, poetry, and other forms of media. Various activities will be performed throughout the year to help students understand the period in which the literature was written.

A substantial portion of English 11 will focus on intensive Regents Exam preparation, including actual tasks from previous exams, as well as parallel assessment tasks (tasks similar to those on the Regents exam). Students will write essays for understanding, comprehension, analysis, and interpretation.

English 12

Grade level: 12 Number of weeks: 40

Prerequisite: English 11

Number of credits: 1

This course focuses primarily on British Literature and prepares students for life beyond high school. Students study British and some American literature ranging from the Anglo-Saxon period to contemporary works. To continue developing an appreciation for literature, students also read and analyze self-selected works. In studying literature, literary elements and thematic classifications are examined and applied. Students will prepare two research papers; one on the topic of college/career choice, the other on a major British author (or his/her work). Attention will be given to researching colleges and careers, practicing college applications and essays, and writing cover letters and resumes. Students will be engaged in real-life activities that focus on research, self-analysis, and writing.

College Writing (ENGL 101) (Concurrent Enrollment)

Grade level: 12 Number of weeks: 20

Prerequisite: A score of 85 or better on the Comprehensive English Regents Exam.

Number of credits: ½ HS – 3 credits from TC3

Students in this course will develop and refine an effective writing process which will include: planning, invention, drafting and revision. They will develop critical thinking skills necessary for researching and writing on a topic, as well as analyzing and utilizing readings from a variety of disciplines. Students develop information literacy skills as they engage in the research process. Grammar skills and the use of proper documentation will be emphasized as well. College credit will be earned through TC3 with a grade of C or better. The college you attend will have the final decision about what credits they accept.

College Literature (ENGL102) (Concurrent Enrollment)

Grade level: 12 Number of weeks: 20

Prerequisite: Successful completion English 101 College Writing with a B or better (transferable

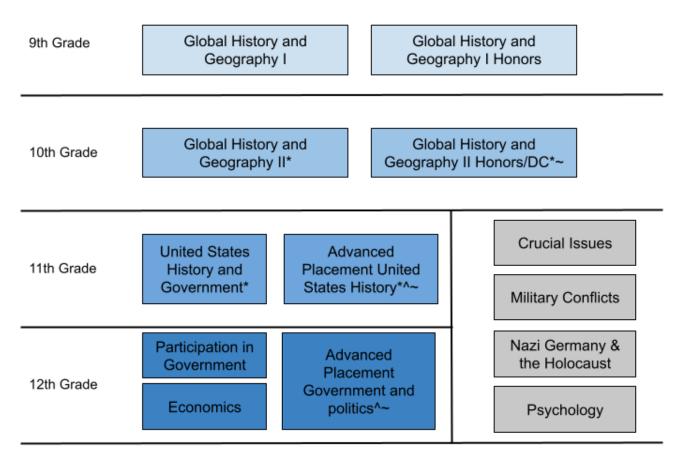
credit)

Number of credits: $\frac{1}{2}$ HS – 3 credits from TC3

Students in this course will be introduced to major aspects of literature. They will develop an understanding and an appreciation as they analyze and write about various forms of literature which include: drama, fiction, and poetry. College credit will be earned through TC3 with a grade of C or better. The college you attend will have the final decision about what credits they accept.

SOCIAL STUDIES

Social Studies Flowchart



Courses marked in blue fulfill NYS Social Studies Requirements for graduation

^{*=} Course culminates in a NYS Regents Exam

^{^=} Course culminates in an AP Exam

^{~=} Students may earn TC3 CollegeNow credits

Global History and Geography I

Grade Level: 9 Number of Weeks: 40

Prerequisite: 8th grade US History

Number of Credits: 1

Grade 9 begins with the Paleolithic Era and the development of the first civilizations, continues with an examination of classical societies, and traces the expansion of trade networks and their global impact. The course emphasizes the key themes of interactions over time, shifts in political power, and the role of belief systems. While the course emphasizes the importance of historical and spatial thinking, all of the social studies practices and standards are included in the study of global history and geography.

Global History and Geography I Honors

Grade Level: 9 Number of Weeks: 40

Prerequisite: 8th grade US History, 85 or higher in the class, and teacher recommendation

Number of Credits: 1

This course is designed as a study of world history and civilizations before 1750 CE. Students will study the political, economic, religious, cultural, social, and intellectual movements and changes that create the modern world (after 1500 CE). The course will focus on ancient to Renaissance periods of history in Asia, Africa, Europe, the Americas, and the Middle East. Course material will be delivered in multiple ways throughout the school year with a special focus on primary sources and historiographical reading. This course is a pre-college course designed to help students develop better historical reading and writing skills necessary to continue on to Global History and Geography II Honors.

Global History and Geography II

Grade Level: 10 Number of Weeks: 40

Prerequisite: Global History and Geography I

Number of Credits: 1

Grade 10 provides a snapshot of the world circa 1750. The course continues chronologically up to the present. Several concepts are woven throughout the course including industrialization, nationalism, imperialism, conflict, technology, and the interconnectedness of the world. While the course emphasizes the importance of historical and spatial thinking, all of the social studies practices and standards are included in the study of global history and geography. At the end of the course, students will take a Regents Exam.

Global History and Geography II Honors (Concurrent Enrollment)

Grade Level: 10 Number of Weeks: 40

Prerequisite: Global History and Geography I/Honors I, 85 or higher in the class and on the final

exam, and teacher recommendation

Number of Credits: 1 HS - 3 college credits

This class is taught as HSTY 117: The West in World History since 1500, a TC3 College Now class. Students will earn both high school and college credit; which may be transferable to college as the student gets a B or better in the class. If the student gets below a B, the student will get TC3 credit, but it may not be transferable.

This course is designed as a study of world history and civilizations since 1500 CE. Students will study the political, economic, religious, cultural, social, and intellectual movements and changes that create the modern world. The course will focus on the Renaissance to the modern day periods of history in Asia, Australasia, Africa, Europe, the Americas, and the Middle East. Course material will be delivered in multiple ways throughout the school year with a special focus on primary sources and historiographical reading. Students will be taking the Global History and Geography Regents Exam in June. HSTY 117 fulfills the SUNY General Education Other World Civilizations requirement. At the end of the course, students will take a Regents Exam.

United States History and Government

Grade Level: 11 Number of Weeks: 40

Prerequisite: Global History and Geography II

Number of Credits: 1

Grade 11 begins with the colonial and constitutional foundations of the United States and explores the government structure and functions written in the Constitution. The development of the nation and the political, social, and economic factors that led to the challenges our nation faced in the Civil War are addressed. Industrialization, urbanization, and the accompanying problems are examined, along with America's emergence as a world power, the two world wars of the 20th century, and the Cold War. Students explore the expansion of the federal government, the threat of terrorism, and the place of the United States in an increasingly globalized and interconnected world. At the end of the course, students will take a Regents Exam.

Advanced Placement United States History (Concurrent Enrollment)

Grade Level: 11 Number of Weeks: 40

Prerequisite: Global History and Geography II/Honors II, 85 or higher in the class and on the Global

History and Geography Regents exam, and teacher recommendation

Number of Credits: 1 HS - 6 college credits

The AP U.S. History course is designed to provide the same level of content and instruction that students would face in a freshman-level college survey class. The course covers 9 periods of US History, spanning from the pre-Columbian era to the present day. Students will assess historical thinking skills aligned with the AP exam - change and continuity over time, causation, comparison and turning point. Students will also learn history through various themes - American and National Identity, Politics and Power, Work, Exchange, and Technology, Culture and Society, Migration and Settlement, Geography and the Environment, and America in the World. At the end of the course, students will take an AP Exam and the United States History and Government Regents exam. Students will also be enrolled in two TC3 College Now courses: HSTY 201: American History to 1877 and HSTY 202: American History from 1877. These credits may be transferable to college as the student gets a B or better in the class. If the student gets below a B, the student will get TC3 credit, but it may not be transferable. Students may be able to transfer credits from the AP course depending on the score earned or the TC3 college credits, but not typically both.

Economics

Grade Level: 12 Number of Weeks: 20

Prerequisite: United States History and Government

Number of Credits: ½

"Economics, the Enterprise System, and Finance" examines the principles of the United States free market economy in a global context. Students will examine their individual responsibility for managing their personal finances. Students will analyze the role of supply and demand in determining the prices individuals and businesses face in the product and factor markets, and the global nature of these markets. Students will study changes to the workforce in the United States, and the role of entrepreneurs in our economy, as well as the effects of globalization. Students will explore the challenges facing the United States free market economy in a global environment and various policy-making opportunities available to government to address these challenges

Participation in Government

Grade Level: 12 Number of Weeks: 20

Prerequisite: United States History and Government

Number of Credits: 1/2

Participation in Government (PIG) is required for graduation. It is designed to give students a well-rounded knowledge of the connection between democracy and the people. Students will examine the US constitution and the Bill of Rights and other key amendments in great detail. Students will study the interactions among the different branches of government

and their respective functions in our system of government. Students will study how linkage institutions, like the media, political parties and interest groups affect government and politics. Students will demonstrate understanding of the role of our state and local governments as well. Students are tasked with a series of projects and or essays on critical social issues that are current in our society. Lastly, students will study the roles of the United States in world affairs.

Advanced Placement Government and Politics (Concurrent Enrollment)

Grade Level: 12 Number of Weeks: 40

Prerequisite: United States History and Government/AP US History, 85 or higher in the class and on

the Global History and Geography and/or United States History and Government exam,

and teacher recommendation

Number of Credits: 1 HS - 3 college credits

AP U.S. Government and Politics is a college-level year-long course that not only seeks to prepare students for success on the AP Exam in May, but also provides students with the political knowledge and reasoning processes to participate meaningfully and thoughtfully in discussions and debates that are currently shaping American politics and society. It is important to note that this course is not a history course; it is a political science course that studies the interconnectedness of the different parts of the American political system and the behaviors and attitudes that shape this system and are the byproduct of this system.

AP U.S. Government and Politics accomplishes these goals by framing the acquisition of political knowledge around enduring understandings and big ideas about American government and politics that can be applied to a set of disciplinary practices through the use of a set of reasoning processes. Through the development of this set of political knowledge, disciplinary practices, and reasoning processes, by the end of the course, students will be able to analyze current and historical political events like a political scientist and develop factually accurate, well- reasoned, thoughtful arguments and opinions that acknowledge and grapple with alternative political perspectives.

Students are expected to take the AP Exam in May. Credits will be earned through TC3 and may be earned based on the score earned through College Board. Typically, students will choose which credit they will transfer to the college of their choice.

Introduction to Psychology

Grade Level: 11 & 12 Number of Weeks: 20

Prerequisite: Global History and Geography II/US History and Government - must pass Regents

Exams

Number of Credits: 1/2

This is an introductory level psychology course in which students will have the opportunity to get an overview of the field of psychology. Students will examine the history and development of the field of psychology, as well as the leading figures associated with its development. In addition, students will learn about the Biological Basis of Psychology, Sensation and Perception, Learning and Memory, Personality Development, and Early Childhood Development. Through labs and research, students will experience hands-on learning experiences as they explore the field of psychology.

Crucial Issues

Grade Level: 11 & 12 Number of Weeks: 20

Prerequisite: Global History and Geography II/US History and Government - must pass Regents

exams

Number of Credits: 1/2

This is an elective course in which we will take a historical and contemporary look at issues throughout the world. This course provides students an opportunity to familiarize themselves with the issues that frequent newspapers, television news, and other popular media and fuel the controversies that both divide our population here in the United States and around the globe. The course will be flexible in nature to accommodate significant current events and engage students through their interests. Discussion and participation are an essential component of the course. Students are required to

"teach" their own crucial issue as a culminating project. The general structure for the course, however, will be to identify crucial issues, and from there think critically about the issues to articulate solutions for the issue.

Nazi Germany and the Holocaust

Grade Level: 11 & 12 Number of Weeks: 40

Prerequisite: Global History and Geography II/US History and Government - must pass Regents

exams

Number of Credits: 1

This elective will attempt to explore the idea of genocide through a case study of the Nazi Germany and the Holocaust. Topics include an in-depth study of the Nazi ideology, leadership, goals, and the Nazification of institutions within Germany. Students will discuss their personal reactions to materials and self-reflection is essential. Participation is a key component of the course. Students will also learn about the mechanics of genocide through the Holocaust and will use that information to study other genocides in history or the present. Attempts at historical research and analysis will be made throughout the course primary and secondary sources.

Military Conflicts

Grade Level: 11 & 12 Number of Weeks: 20

Prerequisite: Global History and Geography II/US History and Government - must pass Regents

exams

Number of Credits: ½

Throughout this semester students will be studying periods of military warfare and conflict in great detail. Our studies will include, but are not limited to, causes and effects of WWI, WWII, Cold War Conflicts with an in depth look at Vietnam, and conflicts in the Middle East with an in-depth focus on modern warfare and weaponry. Military strategies will be a focus for all conflicts as well as the public and political perception at home in the United States. The primary goal of the course is for students to grasp an understanding as to why the United States got involved with each conflict and come up with an opinion as to whether or not that reason was justifiable.

Senior Seminar (ACAD 150) Concurrent Enrollment

Grade Level: 12 Number of Weeks: 40

Prerequisite: Students should be in 12th grade or have special permission.

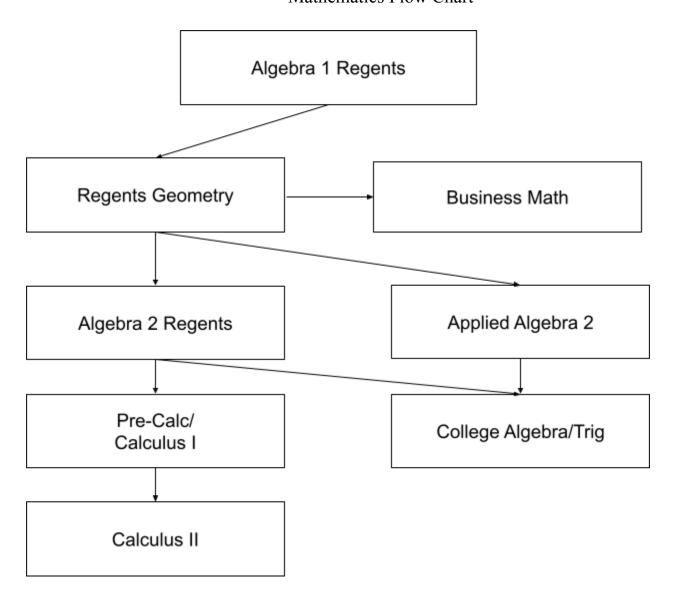
Number of Credits: 1 HS, 3 Credits from TC3

Promotes students' personal adjustment and academic success in their first college semester. Topics include adjusting to college, learning about college resources, learning about career exploration resources, understanding college degree programs, learning and studying in college, managing time and keeping organized in college, setting goals and making decisions in college, managing stress and money in college, and handling diverse relationships. This course is appropriate for new college students in all programs. Because of the similarity of the course content, students may not receive credit for both ACAD 100 and ACAD 150 toward degree requirements.

MATHEMATICS

All students must take three units of credit to earn a regents diploma using one of the following pathways below. Fourth year/Fifth year options are also listed.

Mathematics Flow Chart



- To earn a Regents Diploma, all students must take the Algebra 1 Regents examination after completing Algebra 1 with a score of 65 or above.
- To earn a Regents Diploma with Advanced Designation, students must take and pass the Algebra 1 Regents, Geometry Regents, and Algebra 2 Regents Examination with a score of 65 or above.
- Accelerated 8th grade students can eventually earn a fifth unit of credit in math in Calculus II.

Regents Algebra (1 year of study)

Grade level: 9 and accelerated 8th grade students

Number of weeks: 40

Prerequisite: Math 8 or teacher recommendation for acceleration

Number of credits: 1

Regents Algebra is the first year of preparation for the New York State High School Common Core Regents Examination in Algebra, which is a graduation requirement. The emphasis in the first year is the study of functions with additional units of geometry and statistics. Graphing calculators are a requirement for this course and the State assessment.

Regents Geometry (2nd year of study)

Grade level: 10 and accelerated students

Number of weeks: 40

Prerequisite: Algebra and passes the Algebra Regents with a score of 75 or higher

Number of credits: 1

Regents Geometry is the second year of preparation for the New York State High School Common Core Regents Examination in Geometry, which is a graduation requirement for an Advanced Regents Diploma. During the second year, students will study logic, locus, trigonometry, transformational geometry, coordinate geometry, geometric proofs, and more advanced algebra. Graphing calculators are a requirement for this course and the State assessment.

Regents Algebra 2 (3rd year of study)

Grade level: 11 and accelerated students

Number of weeks: 40

Prerequisites: Regents Geometry and passes the Geometry Regents with a score of 75 or higher

Regents Algebra 2 is the third year of preparation for the New York State High School Common Core Regents Examination in Algebra 2, which is a graduation requirement for an Advanced Regents Diploma. Areas of study include probability and statistics, units on complex numbers, relations and functions, advanced algebra, and trigonometry. Graphing calculators are a requirement for this course and the State assessment.

Applied Algebra 2 (3rd year of study)

Grade level: 11 Number of weeks: 40

Prerequisites: Regents Geometry

Applied Algebra 2 completes the math requirement for a Regents diploma. Areas of study include probability and statistics, units on complex numbers, relations and functions, algebra and trigonometry. Graphing calculators are a requirement for this course.

College Algebra and Trigonometry (Concurrent Enrollment)

Grade Level: 12 Number of weeks: 40

Prerequisite: Regents Algebra 2, Applied Algebra 2, or Applied Mathematics

Number of credits: 1 HS – 3 credits from TC3

Algebra and Trigonometry is a concurrent enrollment course with Tompkins-Cortland Community College. College credit will be earned through TC3 with a grade of C or better. The college you attend will have the final decision about what credits they accept.

Topics in this course include: polynomial and rational expressions, graphing, functions, first- and second-degree equations, absolute value, transformations, complex numbers, right triangles and functional trigonometry, vectors, and matrices. Graphing calculators are a requirement for this course.

Business Math (Concurrent Enrollment)

Grade Level: 11 or 12 Number of weeks: 40

Prerequisite: Regents Algebra (any 2 credits)

Number of credits: 1

This course is designed to help students develop a thorough understanding and mastery of the arithmetic processes of business, with an emphasis on the application of principles to typical business problems. Topics included are: solving for unknowns, percent, discounts, markups and markdowns, payroll, simple and compound interest, credit cards, home ownership, depreciation, inventory, stocks, bonds, and mutual funds. College credit will be earned through TC3 with a grade of C or better. The college you attend will have the final decision about what credits they accept.

Pre-Calculus (Concurrent Enrollment)

Grade level: 12 and accelerated students

Number of weeks: 20

Prerequisite: An 80 class average in Algebra 2 regents or passes the Algebra 2 regents with an 85 or

higher

Number of credits: $\frac{1}{2}$ HS – 3 credits from TC3

Pre-calculus is a concurrent enrollment course with Tompkins-Cortland Community College. College credit will be earned through TC3 with a grade of C or better. The college you attend will have the final decision about what credits they accept.

Pre-Calculus is intended for college-bound juniors and seniors who have a real desire to explore higher level math. The use of graphing calculators will enhance the understanding of the material. Such material will include real-life situations to develop mathematical models that incorporate graphing, polynomials, exponential and trigonometric functions, series, sequences, matrices and probability.

Calculus I (Concurrent Enrollment)

Grade level: 12 and accelerated students

Number of weeks: 20

Prerequisite: Pre-Calculus

Number of credits: ½ HS – 4 credits from TC3

Calculus I is a concurrent enrollment course with Tompkins-Cortland Community College. College credit will be earned through TC3 with a grade of C or better. The college you attend will have the final decision about what credits they accept. This course is for students who have a good work ethic and a real desire to learn higher mathematical concepts. Graphing calculators will be incorporated to engage students in concepts such as differentiation and integration of functions, including trigonometric functions. Students will be challenged with real world engineering problems that require critical thinking.

Calculus II (Concurrent Enrollment)

Grade Level: 12 (accelerated students only)

Number of weeks: 40

Prerequisite: Calculus I

Number of credits: 1 HS – 4 credits from TC3

Calculus II is a concurrent enrollment course with Tompkins-Cortland Community College. College credit will be earned through TC3 with a grade of C or better. The college you attend will have the final decision about what credits they accept. This course is an extension of Calculus I. Graphing calculators will be used to discuss rectangular and parametric equations and equations in rectangular and polar coordinates. Differentiation and integration of techniques for rectangular, trigonometric, and hyperbolic trigonometric functions will be studied. Students will be challenged with real life problems.

SCIENCE

Accelerated 8th Grade Science (Regents Earth Science)

Grade Level: 8th Grade Number of Weeks: 40

Prerequisite: Science 7 and Requirements Outlined Below

Number of Credits: 1

Earth Science is a lab-oriented course that encourages students to interpret scientific data and formulate concepts based on the data regarding Earth and its interacting physical systems. Students will perform experiments to enhance their knowledge of the environment. Major emphasis is placed on making and interpreting graphs and tables. The "New York State Core Curriculum" and the "New York State Science Learning Standards" are used as a format for the course. Required labs must be completed in order for a student to be eligible to take the regents examination.

To be selected for Accelerated 8th grade students in 7th grade science must:

- Have an overall average of 80 or higher.
- Perform satisfactorily on the department developed performance assessment
- Be recommended by their 7th grade teacher.
- Have parent permission.

Regents Earth Science

Grade Level: Accelerated 8, 9-12

Number of Weeks: 40

Prerequisite: Science 8 (or Accelerated)

Number of Credits: 1

Earth Science is a lab-oriented course that encourages students to interpret scientific data and formulate concepts based on the data regarding Earth and its interacting physical systems. Students will perform experiments to enhance their knowledge of the environment. Major emphasis is placed on making and interpreting graphs and tables. The "New York State Core Curriculum" and the "New York State Science Learning Standards" are used as a format for the course. Required labs must be completed in order for a student to be eligible to take the regents examination.

Living Environment

Grade Level: 10-12 Number of Weeks: 40 Prerequisite: Science 8 Number of Credits: 1

In Living Environment, students study life on Earth. Students will engage in the practice and thinking of science as they survey the range of living organisms from simple one-celled organisms to man. Students will examine life processes existing in all organisms, including digestion, excretions, transportation, respiration, regulation, and reproduction. Genetics, ecology and evolution are also studied. The "New York State Core Curriculum" and the "New York State Science Learning Standards" are used as a format for the course. Required labs must be completed in order for a student to be eligible to take the regents examination.

Chemistry

Grade level: 11-12 Number of weeks: 40

Prerequisite: Enrolled in or completed Geometry

Number of credits: 1

In chemistry students learn the theories of matter and energy. Chemical principles and concepts are learned through lectures, demonstrations, and laboratory experiments. Emphasis is placed on experimentation, proper lab techniques, and safety, including calculations and interpretation of experimental data. Those who do not meet the math prerequisite should seek instructor approval. Required labs must be completed in order for a student to be eligible to take the Regents examination. This course is for college-bound students or students interested in a science-related career.

College & Regents Physics

Grade level: 11-12 Number of weeks: 40

Prerequisite: Completed Algebra 2/Trigonometry

(for college credit, must have completed or concurrent enrollment in three years each of

high school math & ELA)

Number of credits: 1 HScredit - 4 college credits

Physics reveals the secrets of the natural world. The four content areas are: mechanics, wave phenomenon, electromagnetism, and modern physics. Lectures, mathematical analysis and interpretation, and laboratory investigations develop the concepts. Those who do not meet the math prerequisite should seek instructor approval. Required labs must be completed in order for a student to be eligible to take the Regents examination. This course is for college-bound or students interested in a science-related career. College credit may be earned through TC3. The college you attend will have the final decision about what credits they accept.

Environmental Science

Grade level: 10-12 Number of weeks: 20

Prerequisite: Living Environment
Number of credits: ½ HS

Environmental Science depicts the living and non-living characteristics of different environments. Methods of studying the environment and practical applications are emphasized in laboratory and field experiences. Environmental issues such as pollution and endangered species serve as the framework for topics.

College Biology (Concurrent Enrollment)

Grade level: 12 Number of weeks: 40

Prerequisite: 3 years of high school Regents Mathematics;

prior completion or concurrent enrollment in 3 years of high school English

prior completion or concurrent enrollment in at least 0.5 credits of any physics course.

Number of credits: 1 HS, 8 college credits

This course provides a comprehensive introduction to the fundamental concepts and principles of biology. Students will explore the relationship between chemistry and organisms, examine cell morphology and physiology, delve into the

principles of genetics, evolution & population ecology, and study plant & animal diversity. *Substantial outside* preparation for lectures and laboratories is required.

Science Research Lab 9-12:

Grade Level: 9-12 HS credit bearing full science lab room(319, 313, 314)

Number of Weeks: 40 (every other day, 90 days total)

Prerequisite: Concurrently enrolled in another full credit science course, passed the previous science course and Regents

exam(if applicable).

Number of Credits: 1/2 credit

Grades: Pass/Fail with rubric grading research projects

This would be an every other day class for the entire school year. Students will work to develop a long-term science research project with the help of a teacher. The final project would entail a research poster and possibly a presentation at the Art and Science night. Students can take this once per year. Students are graded using a rubric system, which is reported as a pass/fail grade on their report cards. Field trips to local laboratories and SUNY Cortland are planned.

Topics In Science

Grade level: 11-12 Number of weeks: 20

Prerequisite: Living Environment

Number of credits: ½ HS

This course explores a variety of science topics of interest to the students enrolled. Focus is on understanding the processes of science as well as its strengths & weaknesses. Possible topics include forensics, climate change, astronomy, engineering design, paleontology, & physics in sports or movies.

World Languages

The World Language Department offers courses of study in Spanish and French. Students are required to have completed one unit of credit in a world language by the end of their freshman year, unless language exempt. Students can continue on to a three or four year course of study. The three-year course of study satisfies one of the requirements for a Regents Diploma with Advanced Designation.

French / Spanish I

Grade level: 9 Number of weeks: 40

Prerequisite: None / French 8 / Spanish 8

Number of credits: 1

In French / Spanish I, students continue their study of vocabulary and grammar in order to enhance development of the four communication skills: reading, writing, listening and speaking. Students work towards Novice High proficiency in language.

French / Spanish II

Grade level: 9 / 10 Number of weeks: 40

Prerequisite: French I / Spanish I

Number of credits:

In French / Spanish II grammar is studied in more detail in order to improve the four communication skills. Students work towards Intermediate Low proficiency level in the language.

French / Spanish III

Grade level: 10 / 11 Number of weeks: 40

Prerequisite: French II / Spanish II

Number of credits: 1

In French / Spanish III the four areas of communication continue to be emphasized. Grammatical instruction will continue in an effort to move students towards Intermediate Mid proficiency in the language.

French / Spanish IV

Grade level: 11 / 12 Number of weeks: 40

Prerequisite: French III / Spanish III

Number of credits: 1

The goal of Spanish IV is to continue to improve on the communication skills through a variety of activities, which include reading of advanced texts and speaking tasks. Students work towards Intermediate High proficiency and begin preparation for the Seal of Biliteracy.

French / Spanish V

Grade level: 12 Number of Weeks: 40

Prerequisite: French IV / Spanish IV

Number of credits: 1

In French/ Spanish V students work to achieve Intermediate High proficiency in the language or higher across the skills of listening, reading, writing, and speaking. Students prepare for and participate in the Seal of Biliteracy.

THE ARTS

STUDIO IN ART

Grade Level: 9-12 Number of Weeks: 40 Prerequisite: None Number of Credits: 1

Why and how do artists create? What can be learned from studying art? What can be learned through creating art? Students will discover answers to these questions as they learn to work with 2-dimensional (drawing, painting, printmaking, collage) and 3-dimensional (sculpture, ceramics) art forms. Students will examine artworks from a variety of cultures and time periods, learn new techniques for creating their own art, explore elements and principles of design, and make cross-curricular connections. The main focus throughout the course is drawing from observation. This class fulfills the NYS Fine Art credit requirement for graduation. It is an essential foundation class for advanced art classes—a must for any student interested in further study of art in high school or beyond.







Advanced Art I

Grade Level: 10-12 Number of Weeks: 40

Prerequisite: Studio Art

Number of Credits: 1

Over the course of the year in Advanced Art I, students will continue working with a wide variety of media and techniques. The elements of art and principles of design, art history, criticism and aesthetics are integral parts of the curriculum. Drawing skills and drawing from life is still a main focus although experimentation with materials and ideas is highly encouraged and expected. At this level, students are expected to work more independently in response to project themes. Students are expected to seek out solutions to problems, to research ideas they may have, to plan out projects and execute them with self-discipline. Participation in art shows and the development of a college entry portfolio will begin in Advanced Art I. A new focus on how art can be used in your future career will be explored.







Advanced Art II (Concurrent Enrollment)

Grade Level: 11-12 Number of Weeks: 40

Prerequisite: Studio Art and Advanced Art I

Number of Credits: 1- 3 Credits from TC3

In Advanced Art II students will continue to use and learn about a wide variety of media and techniques. Sculptural work, video, and photography will also be investigated or incorporated in pieces since today's artists do not limit themselves to one medium and often include multiple techniques in one piece alone. Students are expected to strive to master mediums and use media to best express your own intended ideas. Experimentation with materials and ideas is expected. Individual research into different media or techniques is also expected at this level. Students will work more independently to create a personal, college entry portfolio that is focused and deliberate. Artwork should express individual ideas and skills. With each assignment, advanced students will be expected to take the assignment rules and run with it, creating pieces that are very individual and expressive.







Fashion Design

Grade Level: 10-12 Number of Weeks: 40

Prerequisite: Studio Art

Number of Credits: ½ - 3 Credits from TC3

Explore the fashion industry from design through production and find your individual style in this introductory course. We will explore the history, current trends, and future of fashion. Through fashion sketching, you will create signature looks and build toward sketching your very own collection by the end of the course. Collaborate to create competitive fashion designs to be shown on the runway!







Introduction to Photojournalism (Concurrent Enrollment)

Grade Level: 10-12 Number of Weeks: 40

Prerequisite: Studio Art

Number of Credits: ½ - 3 Credits from TC3

Course Description:

Photography captures moments in time and allows us to view the world through a different lens, either as the viewer or the photographer. Photojournalism is a form of journalism which tells a news story through powerful photography. Students will be exposed to the history of photography as well as contemporary photographers, photojournalists, and methods. Students will explore the full potential of the digital camera, and master a variety of techniques in Adobe Photoshop. Time outside of class is required for shooting images on a regular basis.



MUSIC

Senior High Chorus

Grade level: 9-12 Number of weeks: 20

Prerequisite: 7th and 8th Grade Chorus or permission of instructor

Number of credits: ½

Senior High Chorus is a performing ensemble in which the students expand upon their learning from 7th and 8th Grade Chorus. This course covers four important dimensions of the choral experience: basic vocal techniques (proper breathing, support and placement), sight singing (learning to read music at sight), historical contexts (learning about the composer and historical period a given piece was written), and repertoire (learning music of various styles and periods for concerts and special events, and making critical judgments in rehearsals). Required performances include winter, and spring concerts, community events, Music in Our Schools Month Concert, and area festivals. Extracurricular opportunities include NYSSMA Solo Festival, Music Council, and All-County events. Additional performances may be required and are determined each school year.

Senior High Concert Band

Grade level: 9-12 Number of weeks: 20

Prerequisites: 7th and 8th Grade Band or permission of instructor

Number of credits: 1/2

Senior High Concert Band is a performing ensemble. Students attend weekly rotating lessons. The ensemble will provide a comprehensive education and musical outlet for students. Through active participation in the instrumental program, students will develop an intellectual understanding of all types of music, thereby instilling an appreciative outlook toward culture, music, and the beauty it expels. Students will acquire values, pride, confidence, and a sense of personal identity. Students will develop the life skills of self-discipline, goal setting and perseverance. Music education utilizes the ability to critically evaluate works, and develop higher order cognitive skills of problem solving and creative thinking incorporated in interdisciplinary subjects. The music program will strive to meet the standards set for music on a national level. Required performances include winter, and spring concerts, community events, Music in Our Schools Month Concert, and area festivals. Extracurricular opportunities include Marching Band, Jazz Band, NYSSMA Solo Festival, Music Council, and All-County Band. Additional performances may be required and are determined each school year.

Bach to Rock

Grade level: 9-12
Number of weeks: 40
Prerequisites: None
Number of credits: 1

Bach to Rock is a general music class for students in grades 9-12. This class is a full year, meeting daily, and fulfills students' fine arts requirement for graduation. In this course, students will discover various ways to create, analyze, and respond to different musical styles and elements. Units of study will include guitars, ukuleles, digital music and composition, musical theater, Music in Movies, and more. This is a project and playing based course, but there are no performances outside of class required.

COMPUTER & TECHNOLOGY

Computer Applications

Grade level: 9-12 Number of weeks: 40 Number of credits: ½

This course will teach the basic computer skills and knowledge essential for personal computer use and job productivity. In addition, all computer-assigned projects will involve using 21st Century Skills and searching for information on the Internet to give students experience navigating the vast amount of resources available on the World Wide Web. Microsoft Office suite, specifically Word, Excel, and PowerPoint will be taught; commencing at the beginner level and then approaching the use of computer applications at the intermediate level to continue to challenge students who are already computer literate with word processing, the Internet, and email skills. Additional software and programs will be introduced to enhance projects with effects that are not available in the Microsoft Suite, ie removebg.com and Adobe Photoshop. Word processing in Microsoft Word is the first program taught in the suite. Course content then expands their knowledge by introducing three additional types of computer applications: spreadsheet management with Microsoft Excel, database management with Microsoft Excel and slide show presentations with Microsoft PowerPoint. Windows utility functions will also be incorporated to teach students file management and how to better organize their work.

Computer Publications I

Grade Level: 10 - 12 Number of weeks: 40

Number of credits: 1 (or ½ depending on student schedule)

Computer Publications is designed to be a project-based course for students who are ready to apply the skills they have learned thus far, not only in the computer sequence but in other subject areas as well. Students will be actively engaged in photography, digital editing, graphic design, marketing, as well as reading, writing, thinking, speaking and listening throughout the entire course. The students enrolled in this course use desktop publishing skills at a professional level designing and publishing the school district newsletter **The Lion's Roar** and the annual school yearbook **The Lion**. Students will gain experience in the world of desktop publishing and its hi-tech tools. Using state-of-the-art equipment and market-leading software packages, students will design and create their own professional quality publications. In addition to learning the precise skills of typography and layout design, students will also learn essential communication skills and effective photo-journalism techniques. Computer Publications can be taken a second year for another credit. These students are the students running the production of the projects and are responsible for helping to train and teach incoming students as well as manage the production of various projects.

Computer Publications II

Grade Level: 12 Number of weeks: 40

Prerequisite: Computer Publications I

Number of credits: 1 (or ½ depending on student schedule)

Computer Publications II is for students who have successfully completed Computer Publications I. The students enrolled in this course will be the senior members of the computer publication team responsible for designing and publishing the school district newsletter **The Lion's Roar** and the yearbook **The Lion**. Students will have various jobs that they are responsible for including photographer, chief editor, layout editor, online manager, and other positions. At the same time, students are responsible for feature articles in issues of *The Lion's Roar*. Like Computer Publications I, this course is designed to simulate an authentic office environment where students are challenged to develop targeted skills. It will allow them hands-on activities, which provides young learners to master certain competencies related to newspaper production, researching and reporting along with some entrepreneurial knowledge. This course gives students the opportunity to experience similarities to a career in journalism and reporting. It also exposes students to work like responsibilities and forces them to better manage their time to meet production deadlines and assignments outside of class to cover news stories

Students will be asked to train new hires (members of the Computer Publications I class).

E-Sports

Grade Level: 9-12
Number of weeks: 40
Prerequisite: None
Number of credits: ½

Esports is short for electronic sports, it's a form of competition using video gaming. Here at Cincinnatus we have a newly renovated Esports room. The room was custom built for gaming with LEDs on the walls and twin curtains to block the sun from glaring on the screens. We currently have 10 Asus gaming pc's set up. We have 5 more Lenovo t7 Gaming Pc's on the way. We have Nintendo switches and two large tv's with 4 gamer egg style chairs. We also have on order for next year some Microsoft Xbox's. I am also trying to build a vintage gaming system area also.

We are part of the High school Esports league (HSEL). We have 10 games to choose from for game play. Currently we play Chess, Fortnite, Brawlhalla, Rocket league, and Valorant. During our class time we practice for our competition solo and or as a team. HSEL has two seasons, the fall and spring major. All of our competition games are played after school with more than one queue time to choose from. As a gamer you can stay after school and play during our club time 3:30 to 6:00 or you can play from home. We are in the eastern division and play other schools from Maine to Virginia. Students can win prizes and scholarships for college. A lot of colleges are starting Esports teams and some schools are offering an Esports degree.

Drones/Robotics

Grade Level: 9-12
Number of weeks: 40
Prerequisite: None
Number of credits: 1

In Drone class students learn how to fly multiple drones both indoors and outdoors. Students will study the Federal Aviation Administration rules. Students will take The Trust Test and receive a recreational drone pilot's license that is valid for life. Students start flying with tiny whoop drones that fit in the palm of your hand in the classroom. Once they have some hours of practice we start flying outside with trainer drones (syma x5). With these drones the students have to learn how to adjust to the wind and changing conditions. Once students are proficient at flying we move on to professional drones.

Our professional drones are:

DJI FPV DJI Tello DJI Mini 3 Pro Autel Evo 2 Pro Autel Nano

New for next year is:

Drone Blocks where we use coding languages to make DJI Tello drones fly and complete missions.

Drone soccer uses a 20x10 enclosure along with hand built drones inside a protective bubble to play soccer. Each team has a goal and the drones are in full contact with each other. The only way to score is to get the drone through the hoop. We will practice in class where we will modify our drones to compete against other schools in our area.

AGRICULTURE

Plant Science:

Grade level: 9-12 Number of weeks: 40

Prerequisite:

Number of credits 1

Do you like to plant? Want to know how things grow? Interested in growing your own garden? Want to learn how to manage fruit trees or an orchard? You can learn all this and more in Botany! This course will explore the many career options available in the Plant Science industry. Learn how plants grow, how to propagate more of them, manage a greenhouse plan, create a planting plan, grow seedlings to sell, manage fruit trees, grow indoor plants, and much more. Mostly project-based class where you will be planting, propagating, planning a plant sale, and learning about the industry and careers it has to offer.

Animal Science:

Grade level: 9-12 Number of weeks: 40

Prerequisite:

Number of credits 1

Horses, pigs, and cats, oh my! This class is designed to introduce students to animals used in agricultural production along with a few companion animals. Students will learn what part each animal plays in today's society, their anatomy, breeds of each animal, feeding guidelines, reproduction, management, and basic disease diagnosis. The class will look at animals for production such as cows, sheep, pigs, etc., small animals, and animals for recreation. Other topics taught in this course include animal anatomy and physiology, animal diseases, and animal research. Animal Science students will learn about a variety of careers such as animal behavior, veterinary sciences, agriculture, biotechnology, and many more. Want to be able to work with animals during school hours? Take trips to visit local producers? Listen from industry professionals in class? Network with possible employers? This is the class for you! Mostly project based class where you will be getting your hands dirty and doing.

Food Science

Grade level: 10-12 Number of weeks: 20

Prerequisite: Animal Science

Number of credits 1/2

Do you eat? Then there is something you can learn from this class! We will be making our own food, exploring marketing of food, food composition and nutrition, food additives and regulations, food safety and toxicology, food processing, food engineering, food biotechnology, product development, and sensory evaluation. This industry is vast and includes many facets. Trips to food processors, guest speakers, and eating are all important parts of this class. Maybe you will find your future career in class! This is primarily a project-based class where you will be getting your hands on experience preparing and marketing food.

Agricultural Business

Grade level: 10-12 Number of weeks: 20 Prerequisite: Animal Science

Number of credits 1/2

A business class with an agricultural twist! Think you want to go into the business world but not really the agriculture side of it? Guess what! The basic principles are the same. Students will understand basic economic and business principles used in the agriculture industry, from production to retail. Explore macro and micro economics, marketing and design a business plan! Get the opportunity to meet with business leaders in our local agricultural community.

Veterinary Science

Grade level: 10-12 Number of weeks: 40

Prerequisite: Animal Science

Number of credits

Think you want to be a vet? Want to be able to understand what your veterinarian is talking about in regards to your pet or livestock? Want to be able to do simple procedures on your own? This is the class for you! Major topics include veterinary terminology, safety, sanitation, anatomy/physiology, clinical exams, hospital procedures, parasitology, laboratory techniques, nutrition, disease, office management, and animal management. Veterinary schooling/careers and related careers are also explored. Dissections are a part of this class. Trips to veterinary college, vet clinics, guest speakers and more. Mostly project based class where you will learn and utilize skills used in the Veterinary industry.

Pathways

Animal Science Pathway

Animal Sci
Vet Sci
Food Sci or Ag Business
Dairy Management (possible future class)

Plant Science Pathway

Botany Design and Agriculture Food Sci or Ag Business

Food Science Pathway

Botany Ag Business or Animal Sci Food Sci

Ag Business Pathway

Botany or Animal Sci Ag Financial Mgmt and Marketing (possible future class) Ag Business

HEALTH AND PHYSICAL EDUCATION

Personal Health

Grade level: 10-11
Number of weeks: 20
Prerequisite: None
Number of credits: ½ HS

Health Education covers the factual information concerning topics of mental health, family living, consumer health, nutrition, first aid and safety, physical fitness, drug education, disease prevention, personal health, community health, and growth development. Emphasis will be provided in health promotion and risk education to help students prevent and manage health issues in their lives. This class provides students with an understanding of modern health concepts and how these concepts are related to their present and future needs. A ½ credit of health is required for graduation.

High School Physical Education

Grade level: 9-12
Number of weeks: 20
Prerequisite: None
Number of credits: ½

A wide variety of lifetime, team, and individual sports will be offered to each grade level. Included in the physical education program is an emphasis on total fitness, self-awareness, sports knowledge, proper health practices, and the general enjoyment of sport and physical activity. Physical Education units include, but are not limited to, aerobics, archery, badminton, basketball, bowling, dance, field hockey, fitness testing, flag football, floor hockey, golf, indoor soccer, racquetball, self-defense, soccer, volleyball, and weight training. Students must earn ½ credit of PE each year they are enrolled in high school to meet NYS graduation requirements. Student Athletes are required to be enrolled in Physical Education each semester while competing in league athletics.

BOCES CAREERS AND TECHNICAL EDUCATION COURSE OFFERINGS AT MCEVOY CAMPUS

Juniors and Seniors have the opportunity to attend BOCES Career and Technical Education courses in the following areas:

- Automotive Collision Technology
- Automotive Technology (National Automotive Technicians Education Foundation)
- Computer Technology
- Construction Technology
- Cosmetology
- Culinary Arts
- Early Childhood
- Graphic Communication
- Health Occupations Technology
- Heavy Equipment Repair, Operation, and Diesel Technology
- Physical Therapy
- Welding Technology
- Engineering Technology

Automotive Collision Technology

Two years/3 credits per year

(Science junior year, Math senior year)*

This program prepares students for occupations in the auto body collision repair industry or for technical college. Students learn the basic skills and techniques using the most current business/industry-based technologies. Students progress into frame straightening, custom colors in painting, and estimating. Repairs covered in this two-year program include: auto body materials, color matching, custom painting, paint products, hand and power tools, basic measurement skills, high-strength steels, and plastic and composite part repair. Greater emphasis on ASE certification and I-Car standards in the auto collision technology class involves students in a hands-on training program for a career in the Auto Collision profession. Three credits earned per year.

Automotive Technology NATEF

Two years/3 credits per year

(Math junior year, Science senior year)*

The auto technology program is designed to provide students with basic mechanical knowledge and skills. Students gain knowledge and skills through a combination of lecture and lab work, including hands-on repair of vehicles. All repair work is performed by the students. The jobs range from a simple oil change to complex on-board computer system repair. This program, which is state and nationally certified, is the first step in preparing for a career in the technical repair field. It prepares the student for entry-level employment as a service maintenance person or for advanced technical education. Automotive students will be responsible for NATEF classroom theory, and NATEF-applied Communications, Mathematics, and Science. Students will have the opportunity to complete more than 200 NATEF shop labs within the four areas. Some labs may be performed at local repair facilities. Students will be given the opportunity to become certified as a general service technician.

Computer Technology Program

Two years/3 credits per year

(Science junior year, Math senior year)*

This program offers certification through CISCO. The first year of the program deals with repair and rebuilding of computers. The IT Essentials course is divided into two sections; the first covers core competencies in the latest hardware and software technologies with emphasis on information security skills, safety and environmental issues, and 21st century skills. The second year prepares a student to be a network support specialist. Internships in the second year will expose students to the business aspect of computer technology. This fast-paced program will make any student a capable computer technician for any business/career path. Three credits earned per year. Students may elect to receive three college credits from TC3 for each year of the program (total of six credits) by successfully completing the TC3 concurrent enrollment requirements.

Construction Technology

Two years/3 credits per year

(Math junior year, Science senior year)*

The Construction Technology program emphasizes the development of skills in rough carpentry, masonry and concrete work, residential electricity, plumbing and heating, finish carpentry, cabinet making, and roofing and siding. Areas of study will include: OSHA- and NOCTI approved construction safety standards, residential construction, framing, roofing, siding, drywall finishing, blueprint reading and drafting, cabinet installation, residential wiring, basic electrics, Energy Star-approved insulating standards, site layout, and trim carpentry. Valuable experience is gained in all phases of residential construction. In addition, students have the opportunity to specialize in the construction trade area of their choice. Three credits earned per year.

Cosmetology – Appearance Enhancement Profession

Two years/3 credits per year

(Science junior year, Math senior year)*

The Cosmetology program provides training in hair, skin, and nail analysis. Product knowledge, technical application, and procedures are taught in the areas of shampooing, massage, styling, shaping, coloring, and hair reconstructing. Elective areas include esthetics and nail technology. Curriculum is designed to provide 1,000 hours of interactive instruction and allows practice and theory in individual and group settings. Those students who have completed 1,000 hours of training are eligible to take the written and practical examination to obtain a New York State license. Three credits earned per year.

Culinary Arts

Two years/3 credits per year

(Math junior year, Science senior year)

First year students will concentrate on food service careers, sanitation, food safety, tools, and equipment. Applied math, basic art of baking, cold and hot food preparation stations, and cooking methods are covered. Second year students will complete modules not completed the first year and explore careers in related areas including: restaurant management, institutional facility management, franchise management, grocery suppliers, public health, and facility layout and design. Certification in sanitation and beef is also offered. Project-based portfolios will round out the second year. Both written and verbal communication skills are emphasized. Three credits earned per year.

Graphic Communication

Two years/3 credits per year

(Science junior year, Math senior year)

Graphic Communication encompasses many areas of study in Graphic/Computer Design. The design portion is centered on computer-generated projects. Adobe Photoshop Macromedia, iMovie, PageMaker, and FreeHand software offer students different ways to digitally design and illustrate real and simulated projects. These projects may include: publications, book covers, logos, flyers, posters, Web page advertisements, and other commercial applications. There is also a photography component to this course. Three credits earned per year.

Health Occupations Technology

Two years/3 credits per year

(Math junior year, Science senior year)

This course is offered to students who would like to explore options working with the elderly in the health care setting. Students will also have the chance to explore careers within the health care field. Some of these careers include: nursing, nutrition, and physical and speech therapy. The second year focuses on medical terminology through a systems-based approach. The second year also offers the student a chance to receive three credits from TC3 for a Medical Terminology class. At the end of the second year, students who have accrued enough clinical hours will take the New York State Certified Nursing Assistant certification test. This test is not required in order to pass the course but is an opportunity to be job ready upon graduation. This class offers excellent preparation for students planning to pursue a career in allied health. Three credits earned per year.

Heavy Equipment Repair, Operation, & Diesel Technology

Two years/3 credits per year

(Math junior year, Science senior year)

Located at All-County Collision & Repair in Homer, the two-year Heavy Equipment Repair, Operations and Diesel Technology program is designed to offer students essential skills in the operation and repair of heavy equipment and heavy-duty diesel trucks using the latest techniques and diagnostic equipment. Students will gain daily practical experience working with a variety of engines and equipment that will prepare them for employment opportunities or

furthering their education at college and technical schools. Students may be eligible to earn industry certifications in safety training and equipment operation. A Career and Technical Endorsement on their high school diploma will signify that students have met the rigorous industry standard upon successfully passing a technical assessment.,

Physical Therapy

Two years/3 credits per year

(English 12 junior year, Science senior year)

The employment outlook for skilled physical therapists and physical therapist assistants is expected to increase 43 percent from 2010 to 2020. The demand for physical therapy services is predicted to increase in response to the health care needs of an aging population. This half-day, two-year program will give students knowledge and technical skills that will prepare them for post-secondary education in a physical therapist and physical therapist assistant college program. Work-based learning sites provide students with the opportunity for Internships and shadowing at local physical therapy clinics.

Welding Technology

Two years/3 credits per year

(Math junior year, Science senior year)

Students in this two-year program learn metal-working processes that include: welding, cutting, grinding, and custom fabrication. Students learn by using steel, aluminum, and other metals commonly found in modern industry. Daily hands-on training exercises reinforce skills that enable students to reach entry-level proficiency in stick welding, MIG and TIG welding, flamecutting, plasma cutting, tool, and equipment use. Shop math, blueprint reading, group learning, and career exploration complement the manual skills learned in the workshop. Safety practices and craftsmanship are priorities, and student projects are strongly encouraged. Second-year students can enter the welding industry with the help of paid and unpaid internships. Graduating students are qualified and prepared to perform entry-level work in the field or to attend post-secondary educational institutions. Three credits earned per year.

Engineering Technology

Two years/3 credits per year

(Math junior year, Science senior year)

Explore an exciting future in engineering, including micro-nano technology and other cutting-edge fields, in this two-year Engineering Technology Professions program at OCM BOCES. Through a collaborative partnership with Tompkins Cortland Community College (TC3), Cornell University's NanoScale Science & Technology Facility and area industries, students will gain the knowledge and skills they need to pursue a variety of fast-growing careers in science, technology, engineering and mathematics.

*Students enrolled in these courses are also required to take Data Analysis (Math) and Scientific Inquiry (Science) provided at BOCES for one credit per year. Please refer to the OCM BOCES Credit Recommendations Sheet for further information or contact the Career and Tech Ed Office at (607) 758-5262.

Data Analysis and Statistics/Business Math Course

1 credit

Data Analysis and Statistics/Business Math program emphasizes content and the development of skills in mathematics as they apply to the workforce area that the student has selected. Students will learn enhanced problem solving, review skills, and gain valuable experience in related technical applications of mathematical skills. Students may elect to receive college credit from TC3 in Business Math by successfully completing the TC3 final exam. Data Analysis and Statistics/Business Math course is a requirement for all students.

Scientific Inquiry and Research

1 credit

Scientific Inquiry and Research stresses content and skills development in science as they apply to the workforce area that the student has selected. Students will use various applications of scientific methods and skills, and gain valuable experience in related technical applications of science. This course is a requirement for all students.

New Vision Health Careers

One year – seniors only

Application and interview required

New Vision Environmental Science Careers is a total immersion experience in the field of Health Care. Students explore a variety of career opportunities within the hospital and at some health facilities in the community. Students will spend three hours every school day during their senior year at Cortland Regional Medical Center, which is the main sponsor. Other medical professionals in the community also offer rotation sites for interested students. The program offers four credits toward high school graduation, which may include Anatomy and Physiology, English 12, Government/Economics, and Health Careers. These subjects are integrated together under the common theme of Health Care. Students also take college English 101 through TC3 during the first semester and receive four college credits for successful completion. The program evaluation process consists of daily journal entries, essays, technical writing, textbook questions, oral presentations, group projects, quizzes (both oral and written), tests (both oral and written), and rotation packets. All assignments are interdisciplinary so that students can integrate different subject area skills together. Some of the fields that a New Vision student can explore include: physical therapy, occupational therapy, emergency medicine, cardiology, radiology, nuclear medicine, MRI, recreational therapy, respiratory therapy, nursing (Maternity, ICU, Pediatrics, Geriatrics, and General), clinical laboratory, nutrition, pharmacology, and biomedical engineering.

New Vision Environmental Careers

One year – seniors only

Application and Interview required

New Vision Environmental Science Careers is a total immersion experience in the field of Environmental Science. An emphasis is placed on "learning on your feet instead of your seat." Students will spend three hours every school day during their senior year at Tunison Laboratory of Aquatic Science. The United States Geological Survey at 3057 Gracie Road in Cortlandville sponsors the class. Lime Hollow Center for Environment and Culture is also partnered with the program, working hand-in-hand with the students on projects throughout the year. The program consists of instruction modules that explore specific areas of Environmental Science. Units include: forestry, fish and wildlife, environmental issues, soil and water, land use, and outdoor recreation. Class time is divided between indoor instruction and outdoor application with the majority of instruction done in the 220 acres of forest surrounding the class location. Other activities offered include: overnight primitive camping, backpacking, canoeing, cross-country skiing, snowshoeing, and fishing, and outdoor adventure. Paul Smith's College of the Adirondacks and Finger Lakes Community College award three college credits to students who enroll in their school and successfully complete this program. The curriculum allows for up to four credits toward graduation, which include: Economics, English, Environmental Science, and Government. Evaluation is portfolio-based on each of the six required modules. The student's knowledge and skill is measured using authentic assessment. A daily journal, book reports, essays, poems, interviews, and a research project are part of the student portfolio, with a portfolio developed for each module. Research findings are presented to a panel of educators in a formal symposium style. A panel of educators and related professionals formally assesses the student\ presentation. The course is designed to introduce students to career-oriented opportunities, develop investigative skills, and provide the opportunity to interact with professionals in different career areas.