



2020 - 2021
Course
Description
Book

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Graduation Requirements and Diploma Type

<u>Regents Diploma Required Courses</u>	<u>Regents Diploma with Advanced Designation Required Courses</u>
4 English 4 Social Studies 3 Math 3 Science 1 LOTE* 1 Art/Music .5 Health .5 Parenting and Daily Living 2 Physical Education 3 Electives 22 Total Credits	4 English 4 Social Studies 3 Math 3 Science 3 LOTE 1 Art/Music .5 Health .5 Parenting and Daily Living 2 Physical Education 1 Electives 22 Total Credits
Regents Diploma Required Exams (passing score of 65 or above)	Regents Diploma with Advanced Designation Required Exams (passing score of 65 or above)
5 Exams	9 Exams
Regents ELA exam Regents Math Regents Social Studies Regents Science ***+ 1 additional exam from Math, Science, Social Studies or a Pathway option	Common Core ELA Algebra, Geometry and Algebra 2 Regents Global History Regents U.S. History Two Regents Science** Regionally Developed LOTE

*Students acquiring 5 credits in Art, Music or Vocational Education may be exempt from Foreign Language requirement

**Must pass Living Environment and one of the physical settings (either Earth Science, Chemistry or Physics) exams

***Ask your counselor about the assessment pathways

Course Criteria

Honors:

Honors courses cover most of the same material as non-honors courses, but use different approaches, pace and depth of instruction. Expectations for the quality of work submitted and the amount of independent reading required are elevated for Honors students. Students who pass an Honors class have their final grade weighted an additional .02. Each department uses slightly different criteria to determine if a student is eligible to take an Honors course. Please see specific requirements within each department.

Students with a final course average within 2% of expected range or above can write a letter to the principal explaining why they should be provided an opportunity to be in the Honors course. They must attach a copy of their final report card from the previous three school years.

Student Assistant:

Students who are juniors or seniors, remained academically eligible the previous school year and are in good standing(meaning they do not have more than 3 discipline referrals from the previous year, were not suspended from school, and have good attendance records) are eligible for the program.

The student may be a Student Assistant for the equivalent of one 83 minute period per day. Students interested in being a student assistant must complete an application. These privileges can be lost for attendance, academic or behavior concerns.

Early Dismissal:

Seniors are eligible for Early Dismissal. Early Dismissal allows seniors to leave school 83 minutes early (12:58). These privileges can be lost for attendance, academic or behavior concerns. Exceptions would be at the discretion of the principal.

Advanced Placement (A.P.):

We have several A.P. courses; Biology, Calculus, English Literature and Composition, United States History. Students who request A.P. courses must

pay \$95 (per course) for the exam fee. A.P. courses have their exams in May. The College Board administers standardized A.P. exams; colleges typically award credit to students who receive a score of 3 or above (scores range 1-5, with 5 being the highest possible score).

Dual Credit College Courses:

We currently offer a number of FLCC (Gemini)/MCC College courses at the high school that qualify students for high school and college credit. It is possible for a student to earn college credits by taking and passing these courses. The tuition for each FLCC course is approximately \$5 per credit and most are 3 or 4 credit courses. Some courses have additional costs for books and supplies. FLCC requires that students must have an overall grade point average of 80% or above to qualify for college credit.

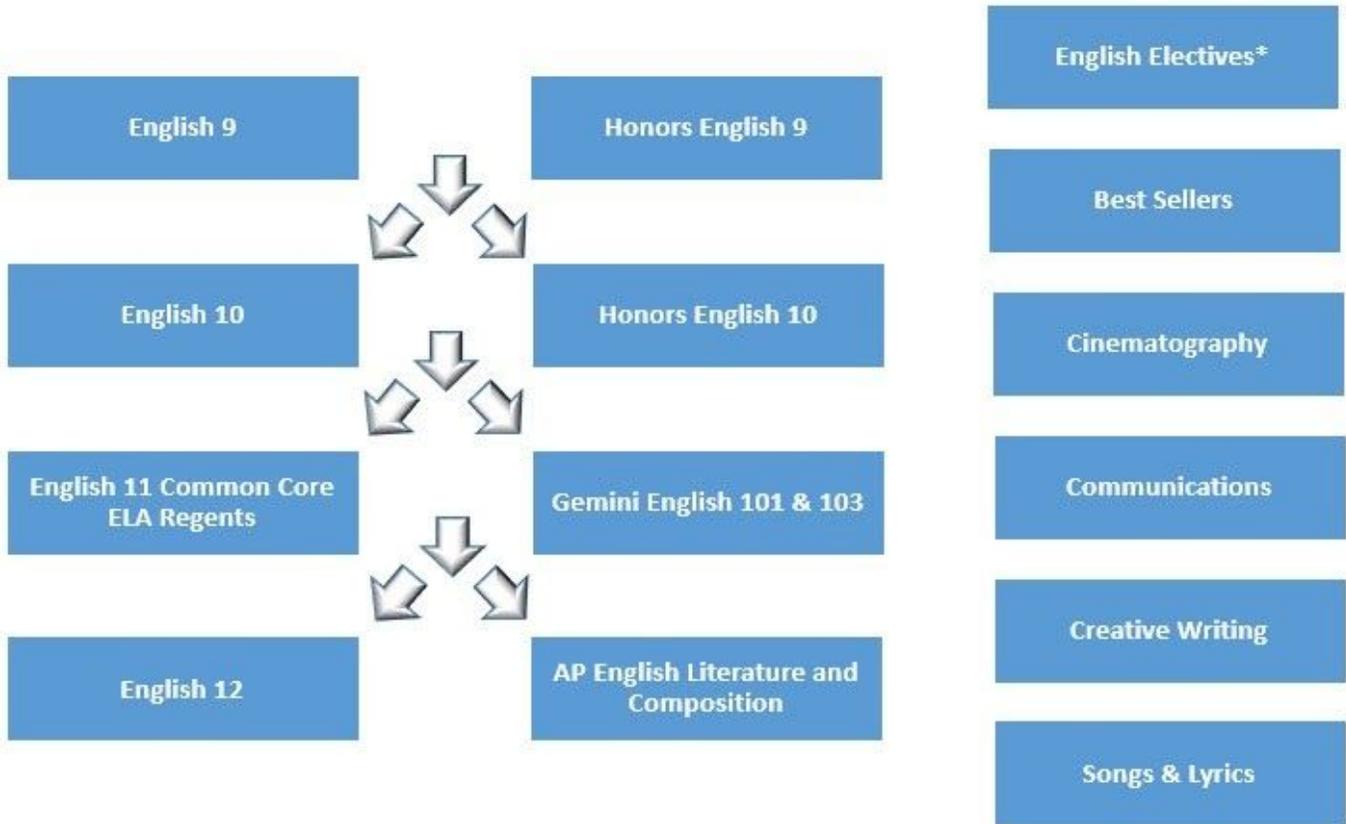
New Vision:

The Wayne Technical and Career Center offers New Vision Medical, New Vision Health Therapy and New Vision Veterinary Assistant programs. These are academically rigorous programs and there is an application required by New Visions that can be found in our guidance office. Acceptance in this program is decided by Wayne Tech.

Technical Career Center Courses:

Juniors and Seniors may attend the Wayne Technical and Career Center program in Williamson. This half-day program meets in the afternoon for juniors and in the morning for seniors. Students absent from their Technical Center class more than 5 times per semester, may lose credit and risk being dropped from the program. Students wishing to attend must complete an application prior to acceptance into a WTCC program.

English



*All elective offerings are contingent on enrollment, budget and scheduling.

English 9

Credit: 1 credit
Exam: Local

English 9 focuses on the English topics and skills needed to be college and career ready. Study of grammar, literary analysis, writing skills, and Barron’s vocabulary help students to become successful readers, writers, listeners, and speakers. Students will complete all components of a research paper, including a two page paper which is properly cited in MLA format.

English 9 Honors

Credit: 1 credit

Exam: Local

Prerequisite: Average of 93% or above in Grades 7th and 8th English and department recommendation

English 9 Honors is designed to challenge the minds of our students and to increase student rigor. Course work will focus on the topics and skills needed to be college or career ready. Study of advanced grammar, literary analysis, academic writing skills, and SAT vocabulary help students to become proficient and successful readers, writers, listeners, and speakers. Students in honors level English are required to produce high level writing pieces and participate in collegiate level analysis and discussion of literature. Students will complete all components of a research paper, including a two page paper which reflects properly formatted MLA format.

English 10

Credit: 1 credit

Exam: Local

Prerequisite: Successful completion of English 9

This course is designed to prepare the student with an adequate literary background. Students will critically read and respond to modern drama, Shakespearean drama, novels, and several shorter literary works. Composition includes practice in the Regents writing tasks and a major research project.

English 10 Honors

Credit: 1 credit

Exam: Local

Prerequisite: Cumulative final average of 93% or above in Grade 9 and teacher recommendation

In addition to the English 10 curriculum, these students will participate and complete projects that demonstrate their skills in language arts. Students with a 90% average or above will be expected to take on the Common Core ELA.

English 11

Credit: 1 credit

Exam: Common Core exam in January or June
Prerequisite: Successful completion of English 10

Juniors concentrate on reading, writing, and speaking for a variety of audiences and purposes. American literature and composition are explored through oral and written analysis of various texts. Students learn techniques and devices involved in research, rhetoric, essays, plays, novels, non-fiction and oral presentation. Their writings are mainly expository - factual and thoughtful writing - based on literature read and on various other topics.

Gemini English 101 (FLCC Credit)

Credit: .5 credit and 3 College Credits through FLCC upon successful completion
Exam: Local
Prerequisite: Committee recommendation based on writing samples.

Most commonly known as freshman composition, this portfolio-based course walks students through three essays of varying writing genres. Several in-class activities, along with teacher and peer feedback, help students polish their writing and become introspective about the writing process. Many students find that the skills covered in this course include those that they can take with them and immediately implement in college, regardless of content area.

Gemini English 103 (FLCC Credit)

Credit: .5 credit and 3 College Credits through FLCC upon successful completion
Exam: Local
Prerequisite: Completion of ENG 101 with an 85% or higher and/or teacher recommendation

A continuation of the composition course, 103 is a research-based course that walks students through the critical steps of writing a college-level paper that is the standard ten pages in length. Included in the process are topic selection, proposal writing, interview protocol, annotated bibliography and proper implementation of MLA style. Students typically come to value the course because of its legitimate preparation for college-level research writing regardless of major or minor.

English 12

Credit: 1 credit
Exam: Local
Prerequisite: English 11

The English 12 course focuses on career planning, vocabulary development, literature (both fiction and nonfiction), and research skills. Interpretations and analyses of all these focuses are explored. Students will also be expected to respond orally as well as in writing to the course focuses. Technical, journal, and creative writing skills are also honed in this course. Students are required to do work on an analytical, interpretive, and symbolic level. Graduates of this course can expect preparation for life beyond high school academically and socially regardless of their post-secondary pursuits.

Advanced Placement English Literature and Composition

Credit: 1 credit
Exam: Advanced Placement Exam in May
Cost: Approx. \$94
Prerequisite: 80% or higher on summer assignment.
Enrollment Conditions: Students enrolled in the course are expected to challenge the A.P. Exam in May.

An A.P. English Literature course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone.

Best Sellers

Credit: .5 credit
Grade Level(s): 9-12

This course will provide students an opportunity to read, discuss, and write about best-selling books. Students will be exposed to a variety of popular fiction and non-fiction books that are currently (or recently have been) on the list of best sellers. Possible units could include novels, book series,

autobiographies and political/social issues.

Cinematography

Credit: .5 credit

Grade Level(s): 9-12

Cinematography is a .5 credit elective course designed for any interested high school student, although juniors and seniors may be better equipped for the curriculum. Throughout the course, students will be expected to develop an understanding of the creative process involved in filmmaking throughout history. Students will discuss, and then provide analyses, of numerous noteworthy films. Through critical and creative expression, each student will develop a more discerning eye for viewing film, and the art present in this form of entertainment.

Communications

Credit: .5 credit

Grade Level(s): 9-12

This course would focus on blogging, reporting, interviewing and announcing in fields of interest that appeal to a variety of students. These skills could be based around sports, arts, fashion, politics, etc.

Creative Writing

Credit: .5 credit

Grade Level(s): 9-12

Creative Writing provides opportunities for discovery through original, written expression across a variety of mediums. The class encourages students to become part of a writing community, through the sharing and presentation of writing pieces. The class will focus mainly on writing; however, purpose and structure will also be studied to assist in effective creative writing form.

Songs & Lyrics

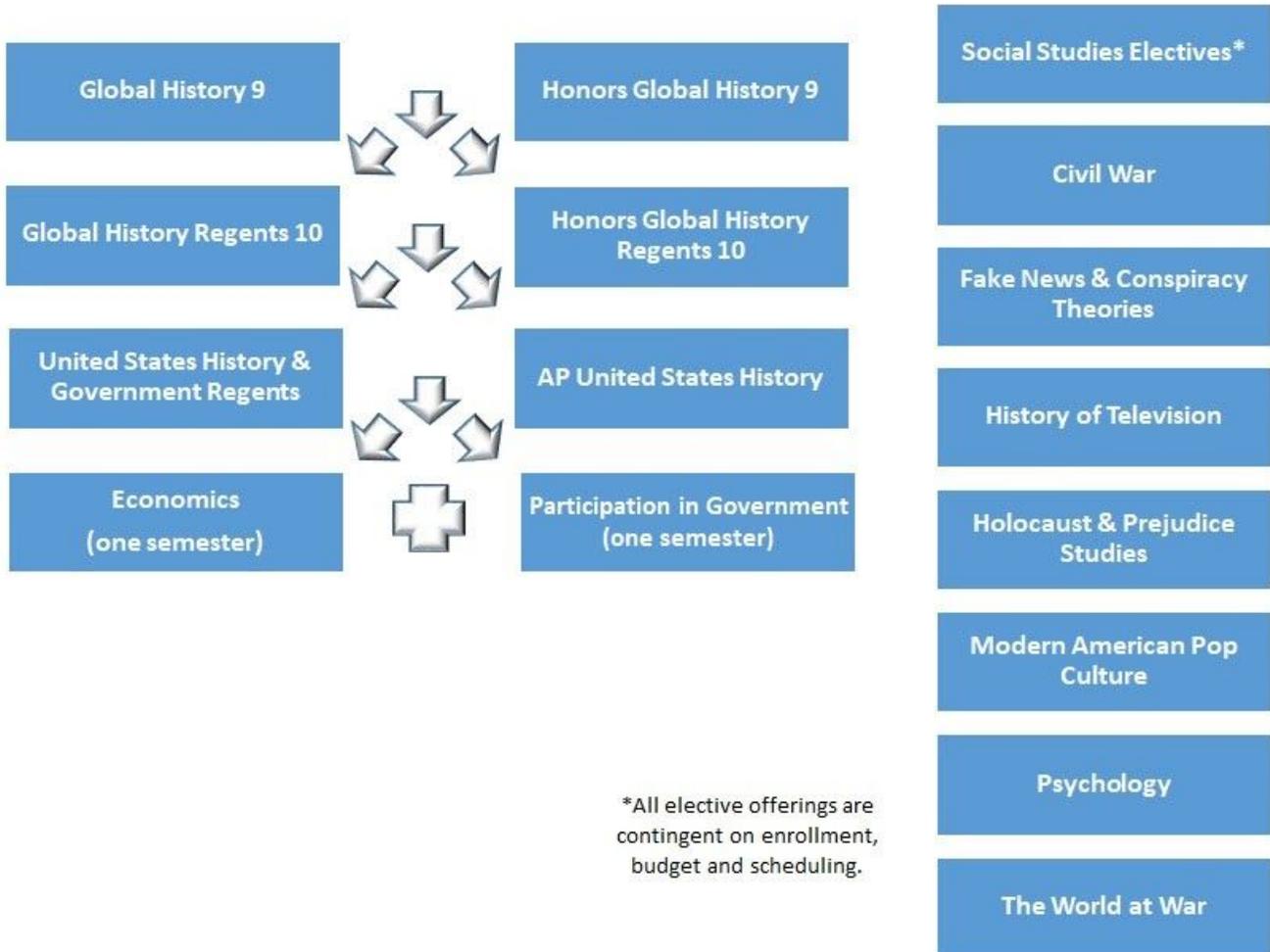
Credit: .5 credit

Grade Level(s): 10-12

This elective approaches songwriting and its creation. Beginning with the

study of popular music, students will use this initial study as inspiration. Focusing on multiple genres from rap to folk, students would pursue creating songs, and especially the lyrical approach, throughout the course with the idea of producing material that will be put to music.

Social Studies



*All elective offerings are contingent on enrollment, budget and scheduling.

Global History 9

Credit: 1 credit
Exam: Local

Global History 9 is the first year of a two year Regents course. The course focuses on the New York State standard of World History and common themes that recur across time, place, and historical eras. Global History covers the world's history beginning with the Paleolithic period and ending in 1700. Regents preparation, Document Based Questions (DBQ) and Thematic Essays are emphasized.

Global History 9 Honors

Credit: 1 credit
Exam: Local

Prerequisite: 90% average in Social Studies in 8th grade, 90% homework average in 8th grade, and department recommendation.

Global History Honors is the first year of a two-year Regents course. The course focuses on the New York State standard of World History and common themes that recur across time, place, and historical eras. Global History covers the world's history beginning with the Paleolithic period and ending in 1700. Honors Global emphasizes the student's ability to analyze and synthesize information through research projects, debates, cooperative grouping and presentations.

Global History 10

Credit: 1 credit
Exam: Global Studies Regents
Prerequisite: Global History 9

This is the second year of the two-year Regents course. The course focuses on the New York State Standard of World History and common themes that recur across time, place, and historical eras. Global 10 covers the history of the world beginning with 1700's Enlightenment and ending with the present day. Regent's preparation, Document Based Questions (DBQ) and Thematic Essays are emphasized.

Global History 10 Honors

Credit: 1 credit
Exam: Global Studies Regents
Prerequisite: 90% or above in Global History 9 and Teacher Recommendation

This is the second year of the two year Regents course. Global History 10 focuses on the New York State Standard of World History and common themes that recur across time, place, and historical eras. Global 10 covers the history of the world beginning with 1700's Enlightenment and ending with the present day. Global 10 Honors encourages methods of analysis and synthesis through higher level reading, a faster pace and in-depth discussion.

United States History and Government

Credit: 1 credit
Exam: United States History and Government Regents Exam
Prerequisite: Global History 10

This course contains units dealing with US geography, US Constitution 1800-1865, industrialization, the Progressive Movement, prosperity and depression 1917 - 1940, the US in an age of global crisis, and a world in uncertain times: 1950 - present. Regents preparation, Document Based Questions (DBQ), and Thematic Essays are emphasized.

Advanced Placement United States History

Credit: 1 credit
Exam: Advanced Placement Exam in May
Cost: Approx. \$94
Prerequisite: 93% or above in Global Studies 10 and teacher recommendation

Enrollment Conditions: Students enrolled in the course are expected to challenge the A.P. Exam in May.

The class is an in-depth chronological study of the United States. This class meets the State requirement for American History and Government. All students in A.P. American History will be expected to take the Advanced Placement test in May. College credit may be obtained based on this examination and students will be better prepared for the rigors of college level coursework. (11th grade students must also take the American History and Government Regents exam in June.)

Economics (12)

Credit: .5 credit
Exam: Local

This course of study is required of 12th graders. It introduces the student to the basic ideas of economics. The topics covered during the semester will be: Intro to Economics and Economic Systems, Microeconomics, Macroeconomics, U.S. and the World Economy. This course includes activities such as debates, group projects, games, and the stock project.

Participation in Government (12)

Credit: .5 credit

Exam: Local

This half-year course will be devoted to the study of all levels of American Government. It includes units on American political life, state government, local government, American system of justice, the U.S. and the international system. The focus will be on understanding how our government works and the importance of participating in the democratic system.

Civil War

Credit: .5 credit

Grade Level(s): 9-12

An in-depth look at the causes of the Civil War, the battles of the war and Reconstruction. The US as a whole from the 1840s - 1876 and beyond will be discussed. Special emphasis will be paid on how the war still affects American society down to today. The class will include in class battle re-enactments, many debates and plenty of opportunities for student led discussion. The class is meant to make the Civil War Era come alive for students. Suitable for students interested in careers in Museums, Research, Politics, Journalism, Foreign Service, Law, Public Relations, and Social Sciences.

Fake News and Conspiracy Theories

Credit: .5 credit

Grade Levels: 9-12

This is an elective course that explores current headlines through competing sources and explores the historical causes of modern news stories. Are news sources today seeking the truth or pushing Fake News to confuse the public? Debate the issues of the day, participate in uncovering the facts, and become critical consumers of information. Homework will consist of keeping up to date with current news stories for class discussion. Grades are based on homework, projects, and class debates/participation.

History of Television

Credit: .5 credit

Grade Level(s): 9-12

This course analyzes the history of television, spanning from its roots in

radio broadcasting to the latest developments in digital television such as MTV, Nickelodeon and video games . Students will view many different TV shows while studying various genres such as cop shows, westerns, children’s television, reality shows, holiday traditions and family comedies. Through studying the historical development of television programs, the course will piece together the catalysts responsible for shaping this highly influential medium.

Holocaust and Prejudice Studies

Credit: .5 credit

Grade Levels: 9-12

This is a unique course that emphasizes content learning, critical thinking and skill development. The content consists of three major units including Native American Genocide, The Holocaust and the Civil Rights Movement. Students also study other examples of hatred, intolerance and terrorism. Homework consists mainly of reading in preparation for class discussion. Students complete multiple projects during the course. Grades are based on homework, performance and content.

Modern American Pop Culture

Credit: .5 credit

Grade Level(s): 9-12

How did the United States grow into its role as a superpower? Was Leave it to Beaver and accurate description of the 1950s? Was everyone listening to Led Zeppelin and doing drugs in the 1960s? Was everyone depressed in the 1970s? Was “Greed is good.” the slogan of the 1980s? Did everyone listen to grunge and watch Friends in the 1990s? How big of an impact did 9/11 have on the 2000s? How did technology change everything in the 2010s? How did we get here and where are we going? Explore these questions and others as you explore modern American History.

Psychology

Credit: .5 credit

Grade Level(s): 9-12

Psychology is the science of human and animal behavior and experience and Sociology is the study of society. This is an introductory course open to

sophomores to seniors. The Psychology units include a variety of units of study such as: early development, motivation, learning and personality theories. The sociology portion of the class includes units of study such as conformity and deviance, social stratification, and problems of mass society. Students will be required to complete a research papers, homework, and participate in class discussions and activities.

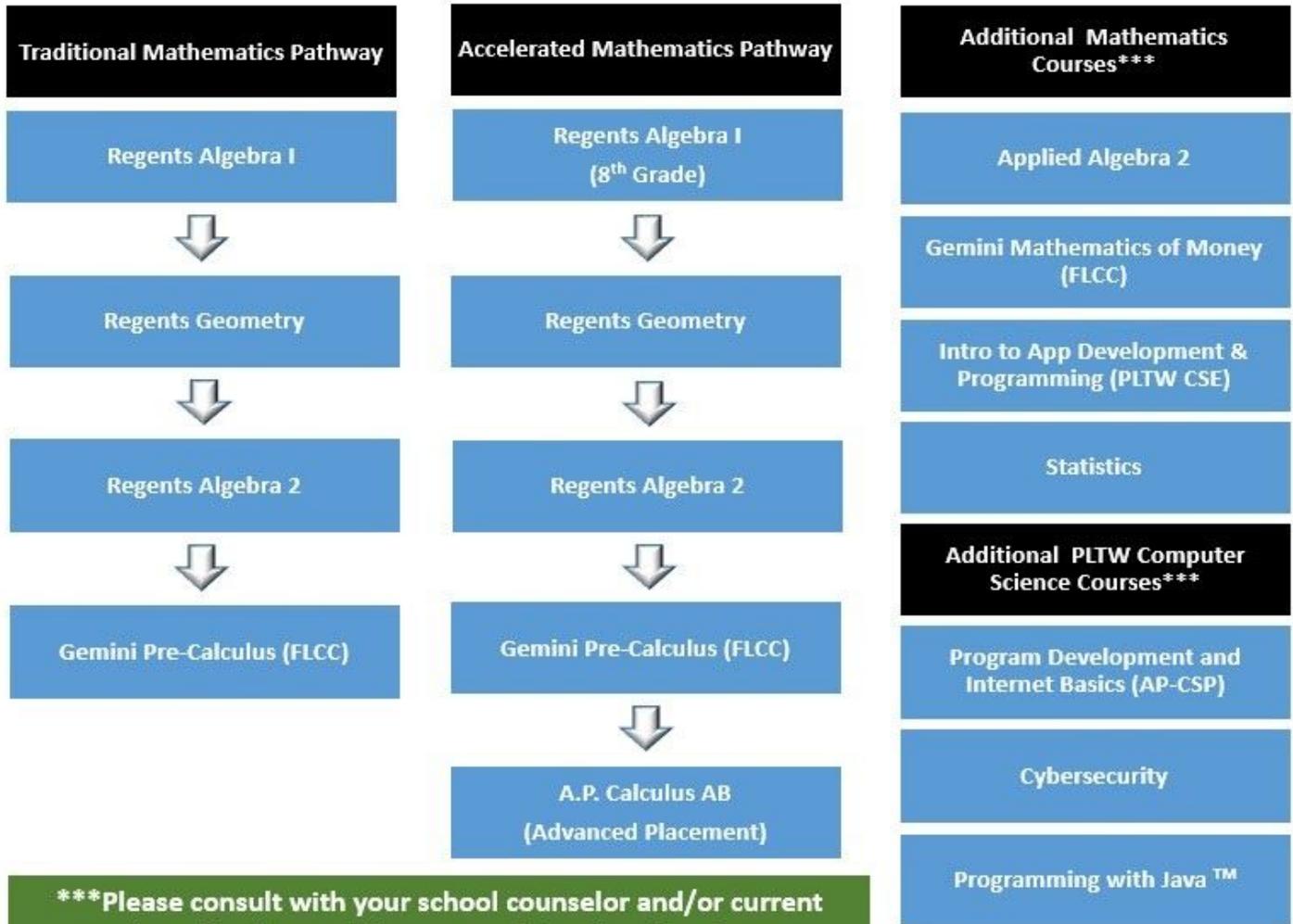
The World at War

Credit: .5 credit

Grade Level(s) 9-12

In 10th and 11th grade, doesn't it feel like we fly through the World Wars? The most destructive events in the history of humankind...covered in 3 weeks? Take this course and learn in-depth the causes, key players, battles, and decisions that affected the outcome of these struggles. From the assassination of Archduke Franz Ferdinand through the bombings of Hiroshima and Nagasaki, explore the conflicts that shaped the modern world.

Mathematics



Algebra 1

Credit: 1 credit
 Exam: NYS Regents Algebra 1 Exam

This is a New York State Regents level course that continues the mathematics topics covered in 8th grade. The following modules provide an overview of the topics that will be taught in Algebra.

- Module 1: Relationships Between Quantities and Reasoning with Equations and Their Graphs
- Module 2: Descriptive Statistics
- Module 3: Linear and Exponential Functions

- Module 4: Polynomial and Quadratic Expressions, Equations and Functions
- Module 5: A Synthesis of Modeling with Equations and Functions

The modules deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards

<https://www.engageny.org/resource/grades-9-12-mathematics-curriculum-map> apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. A Texas Instrument TI-83/84+ graphing calculator is required.

Geometry

Credit: 1 credit
 Exam: NYS Regents Geometry Exam
 Prerequisite: Passing the Algebra 1 Regents exam and the course and teacher recommendation

This is the second New York State Regents level mathematics course that expands upon the mathematical topics covered in the Algebra course. As in Algebra, the emphasis of learning will be on expanding communication and reasoning skills, by applying mathematics in real-world settings. The following modules provide an overview of the topics that will be taught in Geometry.

- Module 1: Congruence, Proof, and Constructions
- Module 2: Similarity, Proof, and Trigonometry
- Module 3: Extending to Three Dimensions
- Module 4: Connecting Algebra and Geometry through Coordinates
- Module 5: Circles with and Without Coordinates

The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. The Mathematical Practice Standards

<https://www.engageny.org/resource/grades-9-12-mathematics-curriculum->

[map](#) apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. A Texas Instrument TI-83/84+ graphing calculator is required.

Applied Algebra 2

Credit: 1 credit
Exam: Local Final Exam
Prerequisite: Have taken the Geometry course OR teacher recommendation

Colleges and universities are stressing the importance of the successful completion of Algebra 2. This course will expose students to the foundations of the Regents level Algebra 2 curriculum while providing additional processing time and increased real-world applications. The goal is for students to continue their studies the following year in the Regents Algebra 2 course. A Texas Instrument TI-83/84+ graphing calculator is required.

Algebra 2

Credit: 1 credit
Exam: NYS Regents Algebra 2 Exam
Prerequisite: Passing the Algebra and Geometry courses and Regents exams as well as teacher recommendation

This is the third NYS Regents level mathematics course and is an extension of the Algebra and Geometry courses. This course is designed for the able math student, who plans to continue his/her post- high school education. The following modules provide an overview of the topics that will be taught in Algebra II.

- Module 1: Polynomial, Rational, and Radical Relationships
- Module 2: Trigonometric Functions
- Module 3: Functions
- Module 4: Inferences and Conclusions from Data

Students will be expected to communicate and reason mathematically and apply math in real-world settings. Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to

expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards <https://www.engageny.org/resource/grades-9-12-mathematics-curriculum-map> apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. A Texas Instrument TI-83/84+ graphing calculator is required.

Statistics

Credit: 1 credit
Exam: Local Final Exam
Prerequisite: Students passed the Algebra 1 course and have received teacher recommendation

We live in a data driven world, so how do we determine what data is appropriate and how do we use data for real purpose? This course will allow students to use statistics to make informed decisions on many real-world situations. Additionally, students will analyze and display data, use linear models, perform regression analysis, use probability, and investigate data mining. Students will learn how statistics are applied in many careers that do not need a math major. Many applications will be technology driven. A Texas Instrument TI-83/84+ graphing calculator is required.

Gemini Mathematics of Money (FLCC Credit)

Credit: 1 credit and 3 College Credits through FLCC upon successful completion
Exam: Local Final Exam
Cost: TBD
Prerequisite: Students must have taken Algebra 2, or have taken the Applied Algebra 2 course, and have received teacher recommendation.

Enrollment Conditions: Students enrolled in the course are expected to challenge themselves for college credit.

This course is designed for juniors and/or seniors that wish to pursue three college math credits, and is directed towards students who wish to study mathematics with business and financial applications. This course is a

mathematics course designed to use business-related topics to enhance students' abilities in and appreciation for mathematics. The course topics are chosen so as to be of interest to a broad range of students. Among the topics chosen are simple interest, simple discount, compound interest, income tax, present and future value of annuities, spreadsheets and other specific financial applications. A Texas Instrument TI-83/84+ graphing calculator is required.

Gemini Pre-Calculus (FLCC Credit)

Credit: 1 credit and 3 College Credits through FLCC upon successful completion
Exam: Local Final Exam
Cost: TBD
Prerequisite: Passing the Algebra 2 Regents exam and course
Enrollment Conditions: Course average of 78 or higher in Algebra 2 OR a score of 580 on the math SAT section OR a score of 24 or higher on the math ACT. Students that have an Algebra 2 average of 77 or below can still take the course for high school credit.

This is a course designed for college-bound students. The math topics in this course are applied to real-world settings. This course continues with the topics presented in Algebra 2, with additional emphasis placed on function applications, simplification of higher-level algebraic expressions, and the solutions of advanced equations, logarithms, trigonometry, and interpretations of graphs. A Texas Instrument TI-83/84+ graphing calculator is required.

Advanced Placement Calculus (AB)

Credit: 1 credit
Exam: Advanced Placement Exam in May
Cost: Approx. \$94
Prerequisite: Passing Gemini Pre-Calculus
Enrollment Conditions: Students enrolled in the course are expected to challenge the A.P. Exam in May.

This course is designed for college-bound students with a strong aptitude in mathematics. This course includes an in depth look at functions and graphs, limits and continuity, derivatives and integrals, with many real-life

applications. Most colleges will award 4 college credits for passing the A.P. Calculus exam. A Texas Instrument TI-83/84+ graphing calculator is required.

PLTW Computer Science

PLTW - Intro to App Development and Programming – (PLTW CSE)

Credit:	1 credit (math credit)
Exam:	Local and PLTW End of Course Assessment (EOC)
Prerequisite:	Passed the 8 th grade mathematics course and state assessment or have taken Algebra 1.

This year-long course provides an excellent entry point for students to begin or continue the PLTW Computer Science K-12 experience. This course will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence through both independent and collaborative work.

In this course, students will 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 make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them.

This course helps students create a strong foundation to advance to other computer science courses, and beyond.

PLTW - Program Development and Internet Basics (A.P.-CSP)

Credit:	1 elective credit (non-math credit) This course also counts as a PLTW Engineering elective
Exam:	A.P. Exam in CSP & PLTW End of Course Assessment (EOC)
Prerequisites:	Passed Intro to App Development & Programming (PLTW CSE) or an 80% or higher average in the Algebra 1 course.

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and

introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

PLTW – Cybersecurity

Credit: 1 elective credit (non-math)
Exam: PLTW End of Course Assessment
Prerequisite: Open to Sophomores, Juniors, and Seniors who have taken Algebra 1 or passed Intro to App Development and Programming (PLTW CSE)

Students will: Identify cybersecurity threats and protect against them. Detect intrusions and respond to attacks. Begin to examine your own digital footprint and better defend your own personal data. Learn how organizations protect themselves in today's world.

Whether seeking a career in the emerging field of cybersecurity or learning to defend their own personal data or a company's data, students in PLTW Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyber world. Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.

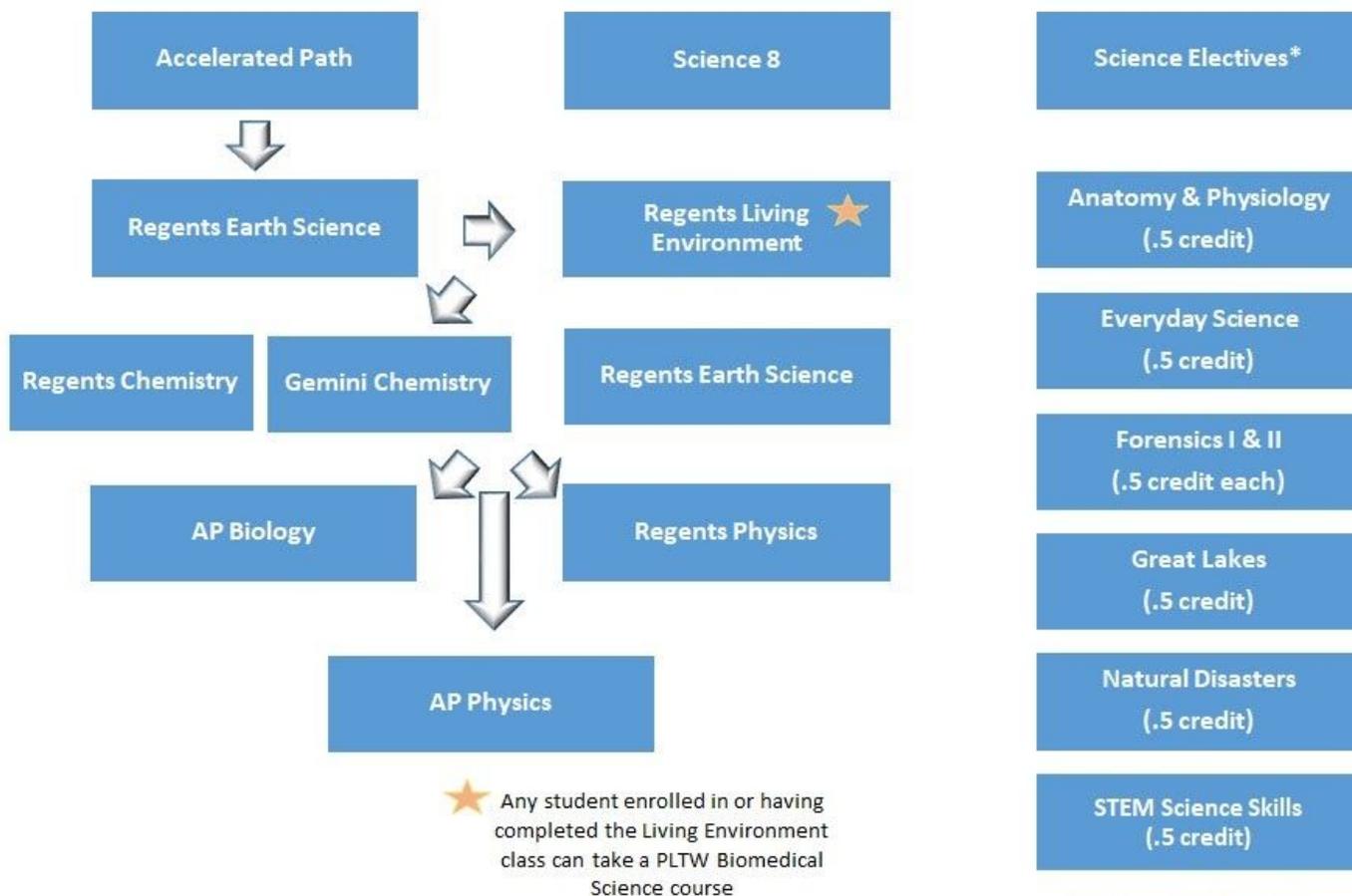
PLTW Programming with Java Computer Science A

Credit: 1 elective credit (non-math credit)
Exam: Local and PLTW End of Course Assessment (EOC)
Pre-req: Must have taken and passed PLTW CSP or have taken and passed PLTW CSE with at least a 90% and given teacher recommendation

Computer Science A focuses 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. This course aligns with the A.P. CS A course.

Science



*All elective offerings are contingent on enrollment, budget and scheduling.

All Regents Science courses follow the same laboratory policy determined by New York State Board of Regents.

Laboratory Policy:

Laboratory work is a critical part of any science course. All students must complete and have written documentation of 1200 minutes of lab work. This is a mandatory requirement in order to qualify for the New York State Regents exam in any science. Failure to fulfill this requirement means the student will not be allowed to take the Regents exam (Final exam grade = 0) and repeat the course.

Regents Living Environment

Credit: 1 credit
Exam: New York State Living Environment Regents
Prerequisite: None

Biology is the study of life. This course is designed to follow the New York State Syllabus for Regents level Living Environment. Course work includes lectures with notes, discussions, homework, tests and quizzes, projects, and an emphasis on laboratory experiences. Students will be exposed to the living organisms that surround them and how those organisms impact their daily lives.

Course topics include:

- Lab Safety and the Scientific Method
- Unity and Diversity of Life
- Maintenance in Living Things
- Human Physiology
- Reproduction and Development
- Genetics
- Evolution and Diversity:
- Plant and Animals in Their Environment (Ecology)

Physical Setting: Regents Earth Science

Credit: 1 credit
Exam: New York State Earth Science Regents
Prerequisite: None

Earth Science examines the physical nature of our planet. This course follows the New York State Syllabus for Regents level Earth Science. Course work includes lectures with notes, discussion, homework, tests and quizzes, projects, and an emphasis on laboratory experiences.

Course topics include:

- Measuring the Earth
- Earth History
- Rocks and Minerals
- The Dynamic Earth
- Landscape Development
- Meteorology and Climate
- Earth in Space

- Man in the Environment

Gemini Chemistry (FLCC Credit)

Credit: 1 Credit and 4 College Credits/semester through FLCC upon successful completion

Exam: Local

Prerequisite: Successful completion of 2 Regents level science courses
Regents Chemistry strongly recommended

Gemini Chemistry follows the recommended syllabus of Chemistry 123 and 124 through FLCC. The course work is rigorous and draws deeply from both Chemistry and Physics. Complex algebraic equations are standard in this course.

Topics include:

Semester 1

1: Matter, Measurement, and Problem Solving	7: Thermochemistry
2: Atoms and Elements	8: The Quantum-Mechanical Model of the Atom
3: Molecules and Compounds	9: Periodic Properties of the Elements
4: Chemical Reactions and Chemical Quantities	10: Chemical Bonding I: The Lewis Model
5: Introduction to Solutions and Aqueous	11: Chemical Bonding II: Molecular Shapes, Valence Bond Theory, and Molecular Orbital Theory
6: Gases	

Semester 2

12: Liquids, Solids, and Intermolecular Forces	19: Free Energy and Thermodynamics
13: Solids and Modern Materials	20: Electrochemistry
14: Solutions	21: Radioactivity and Nuclear Chemistry
15: Chemical Kinetics	22: Organic Chemistry
16: Chemical Equilibrium	23: Biochemistry
17: Acids and Bases	24: Chemistry of the Nonmetals

18: Aqueous Ionic Equilibrium	25: Metals and Metallurgy
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Physical Setting: Regents Chemistry

Credit: 1 credit

Exam: New York State Chemistry Regents

Prerequisite: Passed Algebra 1, Passed Regents Living Environment and teacher recommendation

Chemistry examines the atoms and molecules that we can't always see but are essential in our daily lives. This course follows the New York State Syllabus for Regents level chemistry. Coursework includes lectures with notes, discussions, homework, tests and quizzes, projects, and an emphasis on laboratory experiences.

Course topics include:

- Lab Safety and Procedures
- Matter and Energy
- Atomic Structure
- Bonding
- The Periodic Table
- Kinetics and Equilibrium
- Acid-Base Theories
- Redox
- Organic Chemistry
- Nuclear Chemistry

Regents Physics

Credit: 1 credit

Exam: Local

Prerequisite: Passed or concurrent enrollment in Geometry, Passed Living Environment and teacher recommendation

Physics roughly follows the recommended national syllabus for Advanced Placement Physics as dictated by the Educational Testing Service in Princeton, New Jersey. The course work is rigorous and is meant for the serious, college-bound student. This Physics class requires a strong knowledge of algebra and basic trigonometry. Course work includes lectures

with notes, discussion, homework, tests, quizzes and a minimum of 12 mandatory laboratory experiences.

Course topics include:

- Newtonian mechanics
- Fluid mechanics
- Thermal physics
- Electricity (DC and AC) and magnetism
- Waves and optics

Advanced Placement Physics I

Credit: 1 credit

Exam: Advanced Placement Exam in May

Cost: Approx. \$94

Prerequisite: Passed or concurrent enrollment in Geometry, passed Living Environment and Chemistry or Earth Science, as well as teacher recommendation

Enrollment Conditions: Students enrolled in the course are expected to challenge the A.P. Exam in May.

A.P. Physics I is an algebra-based, introductory college-level physics course. The course focuses on the big ideas typically included in a first-semester introductory physics course. The course will include a minimum of 25% of instructional time for laboratory work with an emphasis on inquiry-based investigations that provide students with opportunities to apply science practices.

Advanced Placement Biology

Credit: 1 credit

Exam: Advanced Placement Exam in May

Cost: Approx. \$94

Prerequisite: Passed or concurrent enrollment in Geometry, passed Living Environment course and Regents exam and Chemistry course and Regents exam, as well as teacher recommendation

Enrollment Conditions: Students enrolled in the course are expected to challenge the A.P. Exam in May.

A.P. Biology takes a more detailed approach to the concepts learned in

Living Environment. This course follows the recommended national syllabus for Advanced Placement Biology as dictated by the Educational Testing Service in Princeton, New Jersey. The course work is rigorous and is meant for the serious, college-bound student. Course work includes lectures with notes, discussions, homework, tests and quizzes.

Course topics include:

- Organic chemistry
- The Cell and its Life Processes
- Cellular energetics
- Genetics
- Evolution
- Plant Anatomy and Physiology
- Animal Anatomy and Physiology
- Ecology

Anatomy and Physiology

Credit: .5 credit

Exam: Local

Prerequisite: Passed Living Environment and passed or concurrent enrollment in Earth Science

Many students at Gananda have expressed an interest in pursuing careers in medicine, sports medicine and physical therapy. One of the courses that inevitably is difficult for young college students is Anatomy. By providing an introductory course, students may find a greater measure of success in college.

This advanced course will offer a mix of lecture and laboratory exercises. There will be multiple dissections and many investigations completed utilizing probe ware and computer simulations.

Probable Units:

- Skeletal System
- Muscular System
- Nervous System
- Endocrine System
- Circulatory System
- Respiratory System

- Digestive System

Everyday Science

Credit: .5 credit

Exam: Local

Prerequisite: Completed Living Environment and Earth Science

Course Description: This course will expose students to how science concepts impact themselves, the community and society. Topics covered will relate to and be important to their everyday life while others will be of interest. Possible topics could include:

- The chemistry of baking and cleaning products
- The biology of growing food and nutrition
- The biology of vaccines and antibiotic usages

Environmental science of living in a community- recycling, how septic/sewer systems and clean water systems operate in a community, landfill construction/purpose

The physics of bicycles and flight, car motion and braking, baseball/football throwing

Pseudoscience and how to avoid being tricked by it.

Forensic Science I and II:

Credit: .5 credit

Exam: Local

Prerequisite: Passed Living Environment and passed or concurrent enrollment in Earth Science

Forensic science provides an opportunity for students to explore the application of scientific techniques learned in prior science classes to crime and law. The course is designed to have traditional laboratory experiences as well as more realistic experiences with a crime scene. Although it is not a Regents or Advanced Placement course, it should be noted that this course is designed to be a rigorous activity-based class.

Course topics include:

- Definition and Scope of Forensic Science

- Management of a crime scene
- Physical and trace evidence (i.e. glass, soil, fibers, hair, blood, bodily fluids, DNA, etc.)
- Toxicology and Drugs
- Fingerprinting

Great Lakes

Credit: .5 credit

Exam: Local

Prerequisite: Passed Earth Science course and Regents

This course is a laboratory and activity based science course that allows students to investigate the local geology, ecology, meteorology, and environment of the Great Lakes and surrounding areas. Topics of study will include: investigating the geologic history of the area, using clues from the current environment to determine the processes which formed the Great Lakes; analyzing the unique meteorology of the Great Lakes which create phenomenon such as lake effect snow; testing environmental factors such as pollution, sedimentation, and water quality; classifying the organisms which live in and depend on the Great Lakes for survival; and determining the scale of Lake and Human interaction.

Natural Disasters

Credit: .5 credit

Exam: Local

Prerequisite: Passed Earth Science course and Regents

Major natural disasters have played an important role in shaping the face of the Earth and the lives of humans. This course will examine the geologic processes that are sometimes hazardous to humans, including earthquakes, volcanic eruptions, hurricanes, and tornadoes. Each section of the course will include an investigation into the geologic processes and will end by discussing specific examples of where, when, and how each type of geologic process has proven hazardous and impacted society.

STEM Science Skills

Credit: .5 credit

Exam: Local

Prerequisite: Passed Living Environment and Earth Science

STEM Science Skills is a laboratory and activity based science course that provides students an opportunity to conduct various experiments and projects in all four of the major science disciplines with an emphasis on sustainable energy, scientific solutions to world problems and engineering design. The class will focus on hands-on activities that utilize data collection technology and computer analysis software. Students will conduct investigations in all areas of science, pose questions and design their own experiments, present findings, and gain experience with various scientific tools such as probe ware and computer graphing software.

PLTW Biomedical Sciences

Principles of Biomedical Science – Application Required

Credit: 1 credit

Exam: Local

Concurrent Enrollment: Regents Living Environment and Algebra

In the introductory course in the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine the factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Human Body Systems

Credit: 1 credit

Exam: Local

Pre-requisites: Principles of Biomedical Science

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Manikin®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Medical Interventions

Credit: 1 credit

Exam: Local

Pre-requisites: Human Body Systems

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions

related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Biomedical Innovation

Credit: 1 credit

Exam: Local

Pre-requisites: Medical Interventions

In the final course of the Biomedical Science sequence, students build on their knowledge and skills gained in previous courses to design innovative solutions to the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to environmental pollution and physiology. They have the opportunity to work on an independent project that is geared toward their interests; be it career shadowing, laboratory research or community building and education.

LOTE (Language Other Than English)

Spanish 2

French 2

Spanish 3

French 3

Gemini Spanish 4

Gemini French 4

Gemini Spanish 5

Gemini French 5

Spanish Cinema, Art and Literature

Spanish Contemporary Politics and Current Events

Spanish 2

Credit: 1 credit

Exam: Local

Prerequisite: Spanish 1B
65% on proficiency
70% combined on Level 1 final average or teacher recommendation

The skills acquired in Spanish 1A and 1B continue to be developed in Spanish 2. Additional grammatical patterns are learned, and pronunciation and vocabulary are stressed. Reading and listening comprehension exercises are practiced. The writing of compositions is continued. Further geography and cultural backgrounds are presented.

French 2

Credit: 1 credit
Exam: Local
Prerequisite: French 1B
65% on proficiency
70% combined on Level 1 final average or teacher recommendation

The skills acquired in French 1A and 1B continue to be developed in French 2. Additional grammatical patterns are learned, and pronunciation and vocabulary are stressed. Reading and listening comprehension exercises are practiced. The writing of compositions is continued. Further geography and cultural backgrounds are presented.

Spanish 3

Credit: 1 credit
Exam: Regionally developed
Prerequisite; Spanish 2
70% final average or teacher recommendation

A continuation of language skills with an increased emphasis on structures and idioms used in conversation and written work. All four skills of listening, speaking, reading, and writing are intensely practiced as the students prepare for the Regents equivalent exam. A discussion of culture is coordinated with the units studied.

French 3

Credit: 1 credit
Exam: Regionally developed
Prerequisite: French 2
70% final average or teacher recommendation

A continuation of language skills with an increased emphasis on structures and idioms used in conversation and written work. All four skills of listening, speaking, reading, and writing are intensely practiced as the students prepare themselves for the Regents equivalent exam. A discussion of culture is coordinated with the units studied.

Gemini Spanish 4 201 and 202:

Credit: 1 credit, 6 possible college credits
Prerequisites: Pass level 3 or teacher recommendation

This is an upper level college preparatory course designed for students interested in continuing their study of foreign language at an advanced level. Students will integrate skills acquired in Spanish 3. Though grammar and vocabulary are traditionally assessed, the class is structured around thematically based units with multiple projects.

Gemini French 4 201 and 202:

Credit: 1 credit, 6 possible college credits
Prerequisites: Pass level 3 or teacher recommendation

This is an upper level college preparatory course designed for students interested in continuing their study of foreign language at an advanced level. Students will integrate skills acquired in French 3. Though grammar and vocabulary are traditionally assessed, the class is structured around thematically based units with multiple projects.

Gemini Spanish 5 203 and 204:

Credit: 1 credit, 6 possible college credits
Prerequisites: Pass level 4 or teacher recommendation

This course is a continuation of level 4 and is for students who would like to further develop their communication and cultural understanding of the Hispanic world. There will be increased focus on speaking and listening skills and students will be introduced to more advanced grammar concepts.

Gemini French 5 203 and 204:

Credit: 1 credit, 6 possible college credits
Prerequisites: Pass level 4 or teacher recommendation

This course is a continuation of level 4 and is for students who would like to further develop their communication and cultural understanding of the French world. There will be increased focus on speaking and listening skills and students will be introduced to more advanced grammar concepts.

Spanish Cinema, Art and Literature:

Credit: .5 credit

Prerequisites: Concurrent enrollment in Spanish 4 and Spanish 5 OR
Spanish 2 or Spanish 3 with teacher recommendation

The goal is to understand the people behind the Spanish language and the culture of the Spanish-speaking world. Topics covered will be Spanish art and artists from the 17-20 century, Spanish literature and Spanish Cinema.

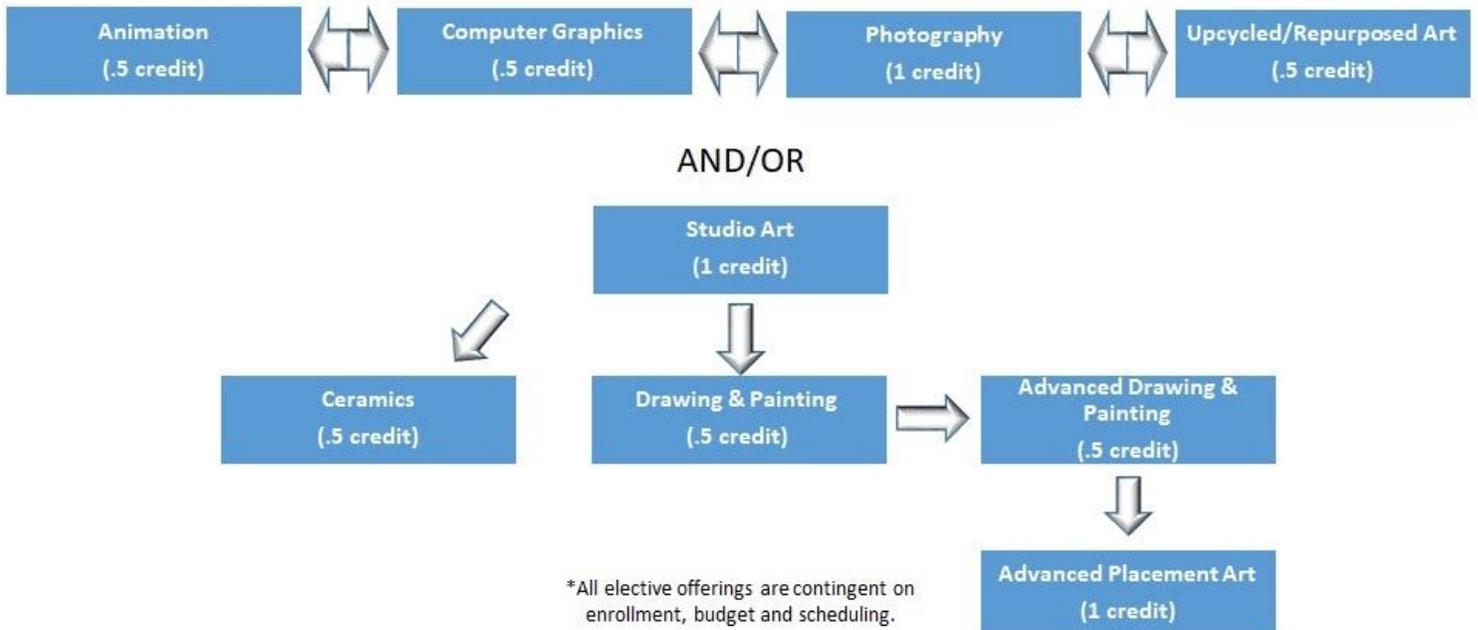
Spanish Contemporary Politics and Current Events:

Credit: .5 credit

Prerequisites: Concurrent enrollment in Spanish 4 and Spanish 5 OR
Spanish 2 or Spanish 3 with teacher recommendation

Focus primarily on expressing opinions, creating dialogue and debates, in Spanish. The goal is to foster conversation in the target language.

Art



Studio in Art

Credit: 1 credit
Pre-requisites: None

Studio in Art is a foundation course in the visual arts. The credit will meet the graduation requirements of 1 credit in the visual and performing arts. Studio in Art focuses upon the experiencing and the understanding of art processes in a variety of genres and media, both 2D and 3D. Students will be exposed to many different manners of self-expression with opportunities to self-direct subjects and compositions. Studio in Art is a prerequisite for all other high school art classes within art strands of 2D and 3D study.

Ceramics:

Credit: .5 credit
Prerequisite: Studio Art full year

Ceramics is a studio art course that explores the tools, techniques, and various uses of clay and clay working. This is a three-dimensional study that will allow students to create their own pieces while becoming more familiar with ceramic works from other artists and cultures.

Drawing and Painting

Credit: .5 credit
Prerequisite: Studio Art full year

Drawing and Painting affords students the opportunity to focus on two-dimensional art. Students will gain experience in a variety of wet and dry media such as graphite, colored pencil, marker, conte crayon, pastels, watercolors and acrylic paint. Projects will provide the opportunity for students to explore their creativity while developing their artistic skills. Students will communicate their visual studies through individual and group critiques. Projects include figure drawing, still-life work, portraits, and more.

Advanced Drawing and Painting

Credit: .5 credit
Prerequisite: Drawing and Painting and Studio Art full year

This course continues the study and practice of skills learned in Drawing and Painting I. Students will increase their depth of technical knowledge while developing their creative expression. There will be continued exploration of new media, color theory, art vocabulary and art history. Through individual and group critiques, students will continue to develop their ability to evaluate artwork and increase their capacity to visually communicate ideas. Materials and techniques explored in Drawing and Painting I will expand upon in project difficulty, artist effort, and instructor expectations.

Advanced Placement Art

Credit: 1 credit
Exam: Advanced Placement Exam in May
Cost: Approx. \$94
Prerequisite: 85% or above academic average, Studio Art and one full additional year of drawing and/or teacher recommendation.

This course follows the recommendations of the College Board Advanced Placement Program. Motivated students will investigate a variety of art forms as a class as well as individually to pursue their artistic goals. Each student will work to create a portfolio of quality work that includes a concentration on a particular interest and a breadth of artistic experience.

Animation

Credit: .5 credit

Prerequisite: None

Examination of concepts, characters and storyboards for basic animation production. Emphasis on creating movement and expression utilizing traditional or electronically generated image sequences. An introduction to animation giving students a working knowledge of animation techniques necessary to design animation sequences.

Computer Graphics

Credit: .5 credit

Prerequisite: None

Computer Graphics is a course that gives the student an opportunity to create and manipulate digital imagery (pictures or scanned art). Digital photography, scanned images (including freehand art), internet content, fonts, and other provided imagery are used to create a variety of works. A firm understanding of Adobe Photoshop will be established.

Photography

Credit: 1 credit

Prerequisite: None

Photography is a hands-on introductory course designed to explore a full spectrum of photography. Weekly photography assignments are investigated outside of the classroom with class time expanding knowledge, technique and post-production. The course utilizes Adobe Photoshop software. Camera equipment is provided for the year. \$38.00 lab fee.

Upcycled/Repurposed Art

Credit: .5 credit

Prerequisite: None

Turning "Junk" Into Something Useful. Upcycling is the process of turning waste, often of the sort that is usually considered "unrecyclable", into something that is useful or of value.

Business

Gemini Business Dynamics (FLCC Credit)

Gemini Microsoft Applications (FLCC Credit)

Gemini Money Banking and Taxes

How to Be Your Own Boss

MCC Accounting

MCC Personal & Business Law: Know your Rights

Sports & Entertainment Marketing

*All elective offerings are contingent on enrollment, budget and scheduling.

Gemini Business Dynamics (FLCC Credit)

(Course can be, but does not have to be taken as college credit)

Credit: .5 credit and 3 College Credits through FLCC upon successful completion

Prerequisite: None

Introduction to Business is a foundation business course that fosters student awareness of the important role business plays in today's global society. Students gain awareness of how economic systems, sources and resources are used to produce goods and services for use and consumption by society. There is also a focus on how individuals contribute to the business and the economic process both nationally and globally.

Gemini Microsoft Applications (FLCC Credit)

(Course can be, but does not have to be taken as college credit)

Credit: 1 credit and 3 College Credits through FLCC upon successful completion

Prerequisite: None

This course is designed to teach students core skills in MS Word, MS Excel, and MS PowerPoint. The course will include topics appropriate to prepare the student to take the MOS (Microsoft Office Specialist) certification test upon completion. Although students may have a base understanding of some of these programs, they will be able to have a deeper understanding of how to use them more effectively and efficiently by creating professional files. The effective and efficient use of these programs will help students throughout high school, college, and/or their careers.

Gemini Money, Banking and Taxes (FLCC Credit)

(Course can be, but does not have to be taken as college credit)

Credit: .5 credit and 3 College Credits through FLCC upon successful completion

Prerequisite: None

The course is essential for anyone who wants to be successful with their money in the future (hopefully all of you!). No matter what career you choose it is important to understand how certain financial decisions may influence your future. We will have guest speakers discuss certain aspects of major financial decisions join us throughout the year. In the financial planning units, topics will cover personal financial planning, banking, budgeting, taxes, investing, using credit wisely and insurance. Focus is also placed on managing personal financial resources such as savings and checking accounts. It will introduce the student to the career selection process and the realities of the working world and personal finance. Students will explore career options, and create career plans, as they plan for post-secondary education and/or their career goals. In addition to resume writing and interview preparation, students will learn to select, apply for, and maintain employment.

How To Be Your Own Boss

Credit: .5 credit

Prerequisite: None

Students will create a new or improved product or service that they will market and sell. Students will have the opportunity to meet with business leaders to help generate ideas for their product or service in class. The first part of the class will focus on generating product/service ideas, as well as a marketing plan. They will also learn the basics of marketing, branding, advertising, and promotions. The second part of the class is designed for students to finish developing their marketing plan for their product or service and have the opportunity to sell that idea to real world business leaders at the end of the course.

MCC Accounting (MCC Credit)

(Course can be, but does not have to be taken as college credit)

Credit: 1 credit (counts as a math credit graduation requirement),
and 4 College Credits through MCC upon successful
completion

Prerequisite: None

Whether you want a college degree in Accounting, Business Administration, Engineering, or ballet, Accounting is an intricate part of any business regardless of what that business does. Accounting explores various careers in accounting as well as various methods of accounting. This full year, one credit course offers the opportunity for students to gain 4 college credits through MCC as part of their dual credit programs. Students will have the opportunity to attend a field trip to learn about different career opportunities in accounting, including becoming a federal agent, along with learning about how to best prepare for interviews. Students will also get a first-hand look at digital concepts in accounting for the 21st century through the innovative online program called Aplia.

MCC Personal Law: Know Your Rights (MCC Credit)

(Course can be, but does not have to be taken as college credit)

Credit: 1 credit and 4 College Credits through MCC upon
successful completion

Prerequisite: None

Join us to learn about your rights and responsibilities in the real world. We will be joined by local law enforcement throughout the year and have the opportunity to see real court trials and tour a prison on our field trips. This course is a study of how civil and criminal law governs society. Land

purchases, leases, contracts, divorces, environmental issues, and criminal offenses will be explored. Emphasis will be on the development of those skills necessary to recognize and better deal with common legal problems to be confronted throughout adult life. Students will compare and contrast civil and criminal law, explain the U.S. jury system, explain the path of typical criminal or civil court cases, explain real estate transfers and lease transactions, identify the requirements of a valid marriage in New York and describe how a marriage is dissolved, identify the elements of a valid contract and describe protections available for consumers, explain common estate planning processes and documents.

Sports and Entertainment Marketing

Credit: .5 credit

Prerequisite: None

This course is designed to teach marketing principles for two enormous industries: Sports and Entertainment. Students will explore possible career opportunities in class and on our "Careers in Sports Day" field trip to Frontier Field and hear from professionals in the sports industry, such as agents, coaches, athletes, trainers, chefs, accountants, etc. In this course, students will start their own fantasy sports (football or baseball) franchise, draft players, and choose the team name, location, logo, and all other details involved in running a franchise. In addition, students will have a brand new virtual simulation program where they will learn all aspects of running a stadium. From selecting the ticket pricing, to hiring security and staff, to booking concert events, to advertising sports games; students will make decisions about all aspects of running their stadium and compete with other students in the class to see who is the most profitable.

Technology

PLTW Construction at Pal-Mac

PLTW Intro to Engineering DDP at GMS**

PLTW/MCC Digital Electronics at Pal-Mac

PLTW/RIT Computer Integrated
Manufacturing (CIM) at Pal-Mac

PLTW/RIT Principles of Engineering at Pal-
Mac

TV Production at Pal-Mac

Yearbook and Photojournalism

*All elective offerings are contingent on enrollment, budget and scheduling.

**Both a technology and art credit course

TV Production at Pal-Mac

Credit: 1 credit

Prerequisite: DDP and teacher recommendation.

This is a one year course in which students will receive a hands-on experience working with broadcasting, video journalism and video editing. Using the television studio, students will produce the morning announcements for the high school. As class projects, students will record sporting events, other extracurricular activities and broadcast them live to the public.

Yearbook and Photojournalism

Credit: 1 credit

Photojournalism and yearbook is a combination class that will combine photography and writing skills. The major publication in this course will be the yearbook for Ruben A. Cirillo High School. There will be other publications throughout the school year, such as a monthly digital newsletter

that will highlight the events going on around the high school. Students will be expected to contribute both photographic and written pieces that will periodically require attendance at school events. Through this course, students will learn about the journalistic process, teamwork, management skills, goal creation and completion. Projects in this class may be group or independent, but will be mostly self-directed. Photojournalism and yearbook will be a unique learning experience that will provide hands on experience with publication through a supportive and caring environment.

PLTW Engineering

Project Lead the Way - Intro to Engineering Design (IED) at Gananda Middle School

Credit: 1 credit 9th Graders – Technology and Art/Music Credit

DDP provides students with opportunities to apply creative thinking, decision- making and problem-solving skills to develop solutions to design problems. It utilizes powerful computer hardware and software (Inventor) to develop 3D models or solid rendering of objects. This course follows the New York State syllabus for Design and Drawing Production and meets the graduation requirements for one credit of art/music.

Students will have integrated hands-on lab and physics theory based on activities based upon case studies which will convey the concepts, principles and skills necessary for the field of engineering. Students in this strand are eligible to receive RIT credit upon passing the End-of-Course Assessment.

Project Lead the Way Construction at Pal-Mac

Credit: 1 credit

Prerequisite: DDP and teacher recommendation.

This is a one year course in which students will explore various aspects of the construction industry. These include: site layout, foundations, floors, walls, roofs, residential wiring, plumbing and heating and ventilation. The primary focus of the course will be on residential construction theories and practices. Students may participate in an apprenticeship program in conjunction with the Associated Builders and Contractors. This course is taught every other year.

Project Lead the Way Engineering Design and Development at Pal-Mac

Credit: 1 credit

Prerequisite: DDP and teacher recommendation.

Students will have integrated hands-on lab and physics theory based on activities based upon case studies which will convey the concepts, principles and skills necessary for the field of engineering. Students in this strand are

eligible to receive RIT credit upon passing the End-of-Course Assessment. Students will have integrated hands-on lab and physics theory based on activities based upon case studies which will convey the concepts, principles and skills necessary for the field of engineering. Students in this strand are eligible to receive RIT credit upon passing the End-of-Course Assessment.

Project Lead the Way/MCC Digital Electronics at Pal-Mac

Credit: 1 credit

Prerequisite: DDP and teacher recommendation.

DE is a full year course studying applied digital logic. Students will be introduced to digital circuits found in video games, watches, calculators, digital cameras and thousands of other devices. Students will study the application of digital logic and how digital devices are used to control automated equipment. The use of digital circuitry is present in virtually all aspects of our lives and its use is increasing rapidly. This course is similar to a first semester college course and is an important course of study for a student exploring a career in engineering or engineering technology. Students can use this course for their third credit of Math or Science. **Upon successful completion of the course and the final exam, students are eligible to receive 3 credits through Monroe Community College.**

Project Lead the Way/RIT Computer Integrated Manufacturing (CIM) at Pal-Mac

Credit: 1 credit

Prerequisite: DDP and teacher recommendation.

CIM is a full year course that applies principles of rapid prototyping, robotics and automation. This course builds upon the computer solid modeling skills developed in Design and Drawing for Production (IED). Students will use computer controlled rapid prototyping and CNC equipment to solve problems by constructing actual models of their three-dimensional designs. Students will also be introduced to the fundamentals of robotics and how this equipment is used in an automated manufacturing environment. Students will evaluate their design solutions using various techniques of analysis, and make appropriate modifications before producing their prototypes. **Students in this course are eligible to receive RIT credit upon successful completion of the course and the RIT final examination.TV**

Production*

Project Lead the Way/RIT Principles of Engineering at Pal-Mac

Credit: 1 credit

Prerequisite: DDP and teacher recommendation.

PoE is a one year course in which students will have integrated hands-on laboratory and physics theory based activities based upon case studies which will convey the concepts, principles, skills, techniques and attitudes necessary for the field of engineering. The outcomes are based upon experience with the following concepts: Modeling, Systems Optimization, Technology Society Integration, Design and Ethics. Activities in this course include such items as bridge design, safety, and case studies with realistic engineering problem solving. This course may be used as a third credit of Math or Science. Students in this course are eligible to receive RIT credit upon successful completion of the course and the RIT final examination.

Music Department



* All elective offerings are contingent on enrollment, budget and scheduling.

Performance

Credit: .5 credit

This class will be focused on teaching the "art of performing": using a microphone properly, stage presence, delivery, body movement and performance inflection. It will be designed around students preparing solos, duets, small group numbers, either with accompaniment or accompanying themselves on guitar, piano, etc. The intent of the class is to allow students to become more confident and polished in their presentations to the audience. There is no prerequisite except for a love of performing. This is not a course for the shy however as you will be required to perform several times throughout the year.

Instrumental Music

Performance Policy for Band

As music is a performing art, each assembly/concert is considered an exam for each respective marking period. Attendance is mandatory as performances cannot be made up.

*The performance will count as a percentage, based on the total number of performances per year.

High School Band

Credit: 1 credit

High school band is open to all students. The band rehearses two to three

periods per week, and each member attends a group lesson for 1 period a cycle. This is a performance class. A typical year may include assembly concerts, evening concerts, weekend concerts, etc. Students must demonstrate minimum musical ability, established by the director, for membership. Except for a small number of school instruments used for special performances, students generally own or rent, and maintain their own instruments.

Students who are also in chorus will split the period and have a rehearsal with the Concert Band and a rehearsal with the full chorus. Students who are not in chorus will spend the other half of the period learning about a variety of other musical topics including but not limited to music theory, music composition, music history and careers in the field of music.

High School Jazz Ensemble

Credit: .25 credit

Jazz ensemble is open to members of the high school band who display minimum standards for jazz performance set by the director. Exceptions may be made with approval from the Jazz Ensemble director and building principal. Auditions may be held when seating is limited. Jazz ensemble is performance class with an emphasis on jazz performance and improvisation. Rehearsals are two periods a week and required performances are similar to band.

Vocal Music

Performance Policy for Chorus

As music is a performing art, each assembly/concert is considered an exam for each respective marking period. Attendance is mandatory as performances cannot be made up.

*The performance will count as a percentage, based on the total number of performances per year.

HS Chorus

Credit: 1 credit

Grade levels: Open to all students grades 9-12

Chorus is open to all students in grades 9-12. There is no requirement except for a desire to sing and be part of a large organization! The chorus rehearses every other day (2 to 3 periods per week). Students who are also in band will split the 80 minute period and have a 40 minute rehearsal with the Concert Band and a 40 minute rehearsal with the full chorus. Students who are not in band will rehearse in a smaller chorus called Chorus Lite for 40 minutes (half) of the class period and then rehearse with the full chorus. Students also have the option to audition for participation in AcaPanthers.

Select Chorus

Credit: .25 credit

Grade levels: Open to all students grades 9-12

Select Chorus is an extra ensemble that is credit bearing, but meets outside the school day during "5th period". It is open to all students EVEN IF YOU ARE NOT A MEMBER OF THE REGULAR CHORUS. This offers an opportunity for students who cannot fit regular chorus in their schedule to still be in a vocal performing group! The chorus performs at different concerts and events throughout the year. Rehearsals are an extra commitment by students as they will be required to dedicate an extra period and possibly some extra time outside of the regular school day. The music performed by this group is often more challenging than the regular chorus.

AcaPanthers

Credit: .0 credit

Grade levels: Open to all students grades 9-12 by audition only

AcaPanthers is an extra ensemble that is not credit bearing, but during the school day during "advisement". It is open to all students EVEN IF YOU ARE NOT A MEMBER OF THE REGULAR CHORUS. This offers an opportunity for students who cannot fit regular chorus in their schedule to still be in a vocal performing group! This is an elite acapella performance group for a maximum of 18 students that is by audition only. You must show an ability to hold your own part and also sing very well in tune and without piano! The chorus performs at different events throughout the year. Currently, rehearsals take place during the advisement period on the same day as the regular chorus rehearsals. The music performed by this group is very challenging and will often be limited to a particular style. It is not for everyone, but if you are serious about singing, this will be a very rewarding

group for you!

Theater

Theatre Tech

Credit: 1 credit

Grade levels: Open to all students grades 9-12

The theatre tech class is open to students who desire to learn about both the technical aspect of running and managing a theatre and also participating in theatrical productions. The course will consist of learning about the setup of the theatre, fly operations, physical construction and design, lighting system, sound system, setup and troubleshooting of equipment and management of activities in the theatre. As part of the class, students will be required to be in attendance at several events during the school year outside of the normal school day to assist in the management of those events.

The class will also address performing on the stage through various small plays and scenarios, including stage presence, vocal projection, mannerisms, characterizations, and ad lib.

Songs & Lyrics

Credit: .5 credit

Grade Level(s): 10-12

This elective approaches songwriting and its creation. Beginning with the study of popular music, students will use this initial study as inspiration. Focusing on multiple genres from rap to folk, students would pursue creating songs, and especially the lyrical approach, throughout the course with the idea of producing material that will be put to music.

Health/Physical Education/Parenting and Daily Living



*All elective offerings are contingent on enrollment, budget and scheduling.

Physical Education

Physical Education

Credit: .5 credit

New York State requires Physical Education every year students attend school. For each year a student successfully completes Physical Education in grades 9-12, he/she will receive ½ credit and up to a maximum of two credits throughout High School.

The Physical Education program in Gananda aligns with New York State Standards. Students will have the necessary knowledge and skills to establish and maintain physical fitness, participate in physical activity and maintain personal health; acquire the knowledge and ability necessary to create and maintain a safe and healthy environment and understand and be able to manage their personal and community resources.

Physical Education content consists of individual games and activities, team games and activities, lifetime activities, outdoor pursuits, fitness and physical development. Students are assessed in four areas: Participation/Preparations, Skill/Performance, Content/Knowledge and Social Responsibility.

Students are required to change into proper Physical Education attire, athletic shorts, athletic sneakers, t-shirts, sweatpants, wind pants and socks.

Gemini Health (HPE 212) (FLCC Credit)**

Credit: .5 credit and 3 College Credits through FLCC upon successful completion

Exam: Local

**This course is a graduation requirement and is typically taken during the sophomore year

This course is intended for any student interested in the benefits of a healthy lifestyle obtained through behavior changes. The course focuses on behaviors and lifestyle factors that affect individual well-being and disease. Emphasis is placed on how physical, emotional, social, intellectual, environmental, spiritual and occupational wellness relates to overall health. Students earn certification in child abuse identification and reporting, as well as school violence intervention and prevention.

Parenting and Daily Living 10th Grade

Credit: .5 credit

PDL incorporates both parenting and daily living skills. Parenting is required by New York State. Daily living skills will focus on career choices, resumes, choosing a college, college prep, public speaking and presentation skills, online safety, finance, and identity: documents, thefts, and fraud. Students will learn in numerous ways, with a high concentration on participation and performance.

Careers in Athletics:

Credit: .5 credit

In this course the class will investigate the trends, ethics, teaching practices

and techniques in the field of athletics from youth organization through the professional level. Complementing this will be the study of today's coaches, officials, trainers, recruiters in all levels of sport and their role in athletics. Students will actively participate in all aspects covered in the course.

G-Fit

Credit: .5 credit

This course will focus on the physical fitness hierarchy and creating your own personal fitness plan. G-Fit is a course that is designed to provide an introduction to and an extension of, general fitness training for overall life-long health and wellness. The students will engage in daily physical activity geared towards their own fitness and training goals. This will be accompanied by instruction on proper nutrition, rest, recovery, muscular anatomy, as well as overall lifestyle choices to enhance results.

Leadership

Credit: .5 credit

Prerequisite: None

Do you want to change the world? Start right here, right now by changing things in your school and community. Leadership is a course designed for students who want to change or improve the world around them. This course is project based with a lot of freedom, no homework, and one goal: to be the change you'd like to see in the world.

Science of Sports

Credit: .5 credit

Prerequisite: None

This course is designed to prepare students with the knowledge, skills, and competence to conduct fitness assessments and to design exercise programs for various populations. Students will gain practical experience related to healthy fitness management programs, basic exercise physiology and sports nutrition. The students will also expand on the care and prevention of athletic injuries.

Team Sports

Credit: .5 credit

Prerequisite: None

Team Sports is a one semester, ½ credit Physical Education Elective. The purpose of the elective is to offer higher level experiences to those who wish to pursue team sports as part of a healthy lifestyle. The course will include, but not be limited to, such sports as basketball, soccer, rugby, softball and ultimate Frisbee. The course will expose students to complex strategies, help students research recreational opportunities, and focus on enhancing individual skills necessary to excel in adult leagues.

Teen Talk

Credit: .5 credit

Prerequisite: None

The goal for this course is to explore, with students, topics and issues that they will face during their high school years and beyond. While there are some core topics that will be covered, content will also be driven by student interest. Topics will include: Role of celebrities in our lives, Content and messages in media, Social groupings, Discrimination, Role Models, and Social Pressures

Other

High School Survival 101

Credit: .5 credit

Prerequisite: None

This course will provide the skills necessary for survival and success in high school. Students will gain skills in relation to academics, professionalism, collaboration and communication. It will offer an opportunity for students to determine goals for their high school career, both academically and socially. It will also offer experiences that are essential to life beyond high school such as time management and organization.

Units will include:

- Organization- Study skills/note taking/test taking strategies
- Using technology effectively & efficiently
- Time management and productivity
- Using resources effectively and efficiently
- Breaking down multiple choice questions
- Problem solving skills- how to handle difficult situations and advocate for oneself appropriately
- Critical thinking skills
- Communication skills- with both peers and "superiors"
- Teamwork skills
- Goal setting and tracking
- Grit- working through potential problems
- Health and well being- mental, emotional and physical
- Stress Management

Wayne Technical and Career Center and New Visions

The Wayne Technical and Career Center at Williamson is offered to all students, primarily juniors and seniors. All WTCC courses are awarded 4 units of credit and the student spends either the morning or the afternoon at Williamson. Transportation is provided by the District.

The Wayne Technical and Career Center (WTCC) offers state-of-the-art programs to over 400 students from 11 school districts in Wayne County. By utilizing a hands-on approach, students are taught the skills needed in their transition to the workplace, college or military. More than 50% of our students attend college. Through articulation agreements with various colleges, many students may earn college credits while attending WTCC.

Many of our programs follow a national recognized curriculum including Culinary Arts (Pro-Start). Students who complete a program and perform well on a recognized industry exam may earn a technical endorsement on their diploma. Students who perform well in their program may also be inducted in the National Technical Honor Society.

Through student organizations such as SkillsUSA, students have the opportunity to learn leadership skills. Students have won or placed in several competitions including the New York State SkillsUSA Competition and the New York State Conservation Competition.

Students have the opportunity to participate in various work experience opportunities such as paid and unpaid co-ops and shadowing opportunities. Many programs offer their services to community members on and off the WTCC campus.

Wayne Technical and Career Center Programs:

Agricultural Careers

ANIMAL SCIENCE

Program Goal: The Animal Science program prepares students for a wide range of careers related to the animal care industry.

Curriculum: Students receive instruction in veterinary care, nutrition, animal anatomy, physiology and animal behavior. The classroom houses many domestic and exotic pets. Students operate a grooming parlor that is used as a learning model for the handling and caretaking of animals.

CONSERVATION

Program Goal: In the Conservation program your "classroom" can be in the forest one day and the local park the next. Students are introduced to the career areas in heavy equipment operation/maintenance and forest management.

Curriculum: Students will learn skills in surveying, landscaping, forestry, fish and wildlife management. Students will also have the opportunity to compete in the annual Conservation competition. Students may earn their OSHA 10 card and forklift certification. If they meet the requirements, they will have the opportunity to prepare for a New York State Commercial Driver's License (CDL Class B). The Conservation Program also runs a successful on-campus greenhouse (WTCC).

POWER MECHANICS

Program Goal: In Power Mechanics, students learn the maintenance and repair of diesel and gasoline vehicles, farm machinery, earth-moving equipment and small power equipment used in agriculture, conservation and landscaping. Basic skills are developed in welding/fabrication and troubleshooting.

Computers/Communications Careers

COMPUTER PROGRAMMING AND VIDEO GAME DESIGN

Program Goal: Our Computer Programming and Video Game Design program enables students to learn to be software developers or video game programmers. Students may also earn 6 college credits from Finger Lakes Community College.

Curriculum: Students learn the essentials of computer programming and practice their skills by writing their own computer games. Students are taught concepts from geometry, trigonometry, and algebra needed to model real world physics in their games and simulations. During the Spring semester, students also study college-level C# programming. C# is the most modern programming language desired by professional software development firms.

Construction/Fabrication Careers

ADVANCED MANUFACTURING ACADEMY

Program Goal: Advanced Manufacturing and Engineering Academy students are exposed to Precision Machining, Computer Aided Design and Welding Technologies, experiencing the interaction of multiple technologies in a real manufacturing environment and through field trips to local industries. In the second year students select an area of concentration in either Engineering, Precision Machining or Welding Technologies.

Curriculum: Over the two year program students will follow approved industry methods and engineering standards while learning to fabricate industry specific metal products. Students learn to make components from blueprint to completion. Following the design phase, students utilize lathes, surface grinders, drill presses, and power saws. Upon successful completion of the program, students can earn Machining Level I certification. In addition, students learn how to weld using the four different welding processes. In the second year of machining, there is a focus on Computer Numerical Control (CNC) machining

CARPENTRY

Program Goal: The Carpentry program is a combination of hands-on skill development and technical training that uses the most up-to-date equipment and resource materials.

Curriculum: The program employs a standardized curriculum that was developed by experts in the construction trades industry through the National Center for Construction Education and Research (NCCER). Students earn NCCER and OSHA 10 certification. Safety is a full time focus

of the Carpentry Program ever reminding the students of the ever-present dangers associated with this trade. Students build a variety of large projects on and off campus as part of their experience.

ELECTRICAL TRADES

Program Goal: The purpose of the Electrical Trades program is to prepare students for entry-level employment in the various electrical trades.

Curriculum: Throughout the program, students gain daily practical experience working with residential, commercial and industrial wiring. In addition, the students will have the opportunity to become a Network Cabling Specialist. Students explore renewable energy technologies. The Electrical Trades program has received national certification through the National Center for Construction Education and Research (NCCER).

New Vision Programs

NEW VISION MEDICAL CAREERS

Program Goal: The New Vision Medical Careers program is an intensive clinical shadowing experience in 20 plus hospital acute care and geriatric units; working with Physicians, Nurses, Physician Assistants, Nurse Practitioners, Clinical Unit Technicians, Dietitians, Respiratory, Physical, Occupational and Speech Therapists, Clinical Laboratory Scientists – Medical Technologists, Midwives, Radiologists and Medical Imaging Professionals. The goal of this one-year, academically intensive program is to learn university human anatomy and physiology, develop critical thinking skills by creating case studies, perform laboratories and learn the scientific method applied to clinical practice in multiple disciplines. The college preparatory program prepares students in rigorous time-management, technology and computer applications skills while exploring the depths of clinical careers by observation and hands-on experiences.

Curriculum: Students work as hospital team members – volunteers observing and helping in the acute care setting, at Newark-Wayne Community Hospital as part of the Rochester General Hospital Health System. Students are American Heart Association Hospital BLS (Basic Life Support) CPR /AED and First Aid certified during the school year. High school seniors take college-level human anatomy and physiology (FLCC Bio 101), blended with clinical research and case studies preparation. Students take college-level English Composition (FLCC 101/103) to develop exception writing skills. Clinical Mentoring, Clinical Dialog and Junior

College-level/Workplace - Medical Terminology is supplemented with required literature readings detailing the thinking of clinical professionals, such as nurses, neurosurgeons, surgeons, microbiologists, and many other disciplines and clinical situations. Students not choosing the college pathway receive high school credit. Students develop clinical packets documenting observed and actual hands-on activities in the clinical units, writing journals linked to A and P, clinical procedures, and critical clinical thinking questions validated by working clinical staff member's evaluations. Practical Hands on Hours 240 Hours Theory: 170 1-Year

NEW VISION VETERINARY ASSISTANT

Program Goal: The New Vision Veterinary Assistant program is designed to provide high school seniors the opportunity to intensely investigate future college and professional career pathways within the field of Veterinary Science. Both theory and hands-on experiences are introduced in the Veterinary Assistant program. New Vision Veterinary Assistant program students may earn certification as a Veterinary Assistant.

Curriculum: An approved program by the National Association of Veterinary Technicians Association (NAVTA), this one-year program follows the New Vision Model by offering student mentored non-paid co-ops at local veterinary offices. The program also introduces students to all aspects of Veterinary Science including: office and hospital procedures, communication and client relations, vaccinations, examination room procedures, surgical preparation and assisting. The New Vision Veterinary Assistant program is designed to prepare students for a wide variety of careers related to Veterinary Science. Veterinary Assistants are employed by animal shelters, aquariums, boarding kennels, humane societies and animal rescue shelters, pharmaceutical companies, research facilities at universities, veterinary hospitals, wildlife sanctuaries and zoos.

(source:<http://www.collegesanddegrees.com/programs/veterinary-technician/job-outlook>) This is a broad-based professional curriculum that will target student development of the knowledge and skills of a wide range of career options within the Veterinary Science field. Additionally, this program will give students a foundation of basic skills required for workplace situations and is uniquely suited to help students build skills related to communication, decision making, time management and relationship building, among others. Students will study and experience academics in an environment that uses an interdisciplinary approach to English Language Arts, Math, Science and Technology.

Service Industry Careers

COSMETOLOGY

Program Goal: Cosmetology is an exciting career that requires a wide range of skills. Artistic ability, as well as technical and communication skills are critical to success. The Cosmetology program teaches students the competencies and professional skills necessary to pass the New York State Board practical and written licensing exams.

Curriculum: Students attend the program for two years. A clinic open to members of the local community provides students with real life experience in their field. Only licensed cosmetologists may work in salons in New York State. To sit for the licensing exam, students must complete a minimum of 1,000 hours of approved instruction.

CRIMINAL JUSTICE

Program Goal: Criminal Justice is a broad-based career exploration program intended to give students skills, knowledge and occupational opportunities in the field.

Curriculum: Through a blending of rigorous academics with a strong hands-on component, students gain insight into what it takes to be successful in the criminal justice field. In addition, 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. Several certifications are available such as, NYS Security Guard, CPR/AED, First Aid and others through the Department of Justice, Homeland Security and OSHA.

CULINARY ARTS

Program Goal: The Culinary Arts program is focused on preparing all students to meet the challenges of employment and/or continuing their education in the culinary field.

Curriculum: In this two-year program, practical experience is gained in both the classroom and fully equipped commercial-style kitchens. Guest speakers from local businesses and food related careers are also invited to speak with students. The Culinary Arts Program is a Technical and Career Education – 100 All prices available on 2017 - 2018 Final Request for Services Forms. 6 member of the New York State Restaurant Association (NYSRA) Educational Foundation ProStart Program. This program provides students the work experience and classroom learning they need to succeed in the restaurant/food service career field. Students will have the

opportunity to earn their ServSafe Managers certification which is a 5-year certificate.

EDUCATION PROFESSIONS

Program Goal: Students enrolled in the Education Professions program at WTCC will be immersed into a culture that expands their knowledge and experience of the many varied career opportunities available in the field of education.

Curriculum: Students will create age-appropriate lesson plans and interact with young children in the center's community-based, on-site preschool. Students will also intern in off-site work-based learning experiences in their specific fields of interest. Eligible seniors may apply for Level I NYS Teacher Assistant Certification. Both juniors and seniors have the opportunity to earn college credit through Finger Lakes Community College (FLCC) and Monroe Community College (MCC).

HEALTH PROFESSIONS

Program Goal: Health Professions provides the basic knowledge and competencies considered common to careers in the health field as well as preparing to meet competencies for Certified Nurse Assistant.

Curriculum: Students will explore many areas of employment through discussion, field trips and hands-on experiences, as well as clinical experiences in a health-care facility (108 hours over 2 years) before choosing a specialized course of study. Students take part in clinical experience that provides the additional training and education requirements needed to sit for the NYS Nurse Assistants Exam and may include exploration of, and exposure to additional health related careers.

Transportation Careers

AUTO BODY REPAIR

Program Goal: Students in the Auto Body Repair program work with the latest technologies in order to hone diagnostic and repair skills on a variety of vehicles.

Curriculum: Learning is accomplished in a hands-on environment, on vehicles owned by real customers. During class time students receive practical experience in collision repair, which includes frames, unibody

repair and auto refinishing.

AUTOMOTIVE TECHNOLOGY

Program Goal: Automotive Technicians are in high demand. From computerized diagnostics to hands-on repair, students in the Auto Technology program learn to service and maintain all types of cars and light trucks.

Curriculum: Coursework is based on the National Automotive Technician Excellence Foundation (NATEF) standards, which follow the Automotive Service Excellence (ASE) standards.

Driver's Education

The driver education course is open to 16 year olds who possess a New York State learner's permit. A student must be sixteen by September 1st to be enrolled in the fall semester. Attendance requirements – all absences must be made up. Each individual must complete the following requirements: 24 hours of in-car instruction (6 of which are actual driving) and 24 hours of in-class instruction. The student must pass both the classroom session and the in-car phase. Students should have a car available for practice driving after school hours. Students are reminded that registration for the course does not guarantee that the student will get a seat in the course. While every effort will be made to accommodate all students, limits on available resources may result in some students not being able to take the course.

An MV-285 certificate allows teenagers to drive after 9 pm when they reach 17 years of age. The teenager must surrender their MV 285 certificate "blue card" to DMV before they get their night license. Some insurance companies may offer certain discounts for individuals who have successfully completed the course and attended all of the classes offered.

Due to rising costs the district has been forced to charge a fee for taking this course.

Saturday classes will be necessary.

Possible topics:

- History of the automobile and safety features
- Major mechanical and maintenance
- Basic maneuvers
- Laws and right of way
- Handling emergencies
- Defensive driving
- Attitudes and emotions
- Distracted driving
- Physical fitness
- Alcohol and drugs
- Insurance
- Buying and selling
- Natural laws