

Carlynton Cyber Academy

Program of Studies



2023 – 2024
Grades 9 – 12

TABLE OF CONTENTS

Forward	3
The Program of Studies	3
High School Diploma Requirements	4
Keystone Exams	6
Class Rank	6
Weighted Grades	7
Career and Technology Center	8
Drop/Add Policy	10
NCAA Eligibility	11
On-Line Courses	11
English Department	11
Social Studies Department	15
Mathematics Department	16
Science Department	19
Physical Education and Wellness	22
English Electives	23
Social Studies Electives	24
Foreign Language Electives	25
Business Course Offerings	27
Art Course Offerings	27
Family/Consumer Science Course Offerings	28
Computer/Technology Course Offerings	29
Appendices	30

FORWARD

The Carlynton JSHS Program of Studies is designed to help students and parents/guardians choose, follow, and complete a path to graduation that will prepare students for success beyond high school. This document provides general information, including the policies, procedures and requirements of the Carlynton School District and the Carlynton JSHS, and includes descriptions of all of our course offerings.

Our mission is to maintain high expectations for all of our students. Together as teachers, staff members, and administrators, we strive to consistently improve our instructional practices in order to support student success. We encourage students, parents, and guardians to become familiar with the contents of the Program of Studies that will be supporting the successful educational environment at Carlynton JSHS.

All courses are college and career preparatory because we believe that it is our responsibility to provide all students with opportunities that prepare them for postsecondary readiness. There is a Weighted Honors and Scholars option for many of our core courses. There are also a variety of Advanced Placement offerings in order to enable students to earn college credit while in high school.

THE PROGRAM OF STUDIES

The Program of Studies is a comprehensive document outlining the course offerings, course sequence, and related requirements for high school students. Minimally, high school students at Carlynton Cyber Academy must meet the graduation requirements outlined in Board Policy #217. Students are required to schedule at least seven (6.0) credits per year in grades 9 – 12. Students have certain subject area requirements each year that must be completed. The remaining credits are scheduled as elective courses according to the interests of the student and availability of that elective course. Each course offered is listed by department including a brief description of the course and corresponding credit. Please note that certain elective courses are only available in specific grade levels. Many of the courses offered have specific requirements which may include prerequisite courses and the achievement of a specific percentage grade. These specific requirements are listed either by course or by department. Another important aspect to consider is that not all elective courses listed in the Program of Studies run each year. Make sure you choose an alternate selection if a class is not available.

Please review your course selections with your parents or guardian considering your own success and aptitudes, teacher recommendations, and plans for post-graduation.

HIGH SCHOOL DIPLOMA REQUIREMENTS

Graduation from Carlynton Junior-Senior High School shall be in accordance with the standards as established by the Pennsylvania Department of Education and the Board of School Directors of the Carlynton School District. These requirements are summarized below.

Graduation Requirements**	
Credits	
English	4.00
Mathematics	3.00
Science	3.00
Social Studies	3.00
Health / Phys. Ed	2.50
Electives	<u>8.50</u>
	24.00

A credit is earned upon satisfactory completion of one hundred twenty (120) clock hours of instruction in a planned course. The ability to earn credit could be affected for excessive absences (20 or more days). **In order to make yearly progress toward graduation, students in grades 9 through 12 should earn an average of six (6) credits per school year. Failure to do so could jeopardize a student's ability to graduate with his or her class**

Act 158 Graduation Requirements

State graduation requirements also dictate that students must complete coursework and take the Keystone exam for Biology, Algebra 1, and English Literature

Act 158 was signed into law on October 24, 2018, in conjunction with Act 6 of 2017, expanding the options for students to demonstrate postsecondary readiness. The new statewide graduation requirements were set to take effect starting with the graduating class of 2023. Act 158 of 2018 establishes five pathways for students to demonstrate college, career, and community readiness. The High School guidance team is available to support students in determining the pathways to graduation that are appropriate and achievable for each individual student.

Students in the class of 2023 forward can meet the statewide graduation requirement within the Carlynton School District through one of the following pathways:

Pathway 1: Keystone Proficiency Pathway: Scoring proficient or advanced on each of the Keystone Exams - Algebra I, Literature, and Biology.

Pathway 2: Keystone Composite Pathway: Earning a satisfactory composite score (4452) on the Algebra I, Literature, and Biology (while achieving at least a score of proficient on at least one of the three exams AND no less than a score of basic on the remaining two exams).

Pathway 3: Alternative Assessment Pathway: Earning a passing grade in the courses associated with each of the Keystone Exams on which a score of proficiency was not achieved AND satisfactorily completing one of the following:

Attainment of an established score on one of the following approved alternative assessment:

- SAT (Score of 1010)
- PSAT (Score of 970)
- ACT (Score of 21)
- ASVAB (the minimum score needed to gain admittance to a branch of the armed services in the year the student graduates)
- Attainment of Gold Level on the ACT WorkKeys Assessment;
- Advanced Placement Test (Attainment of a 3 or higher on an in the content area associated with each Keystone Exam in which a score of proficiency was not achieved.
- Dual Enrollment Courses (Successful completion of a dual enrollment course in the content area associated with each Keystone Exam in which a score of proficiency was not achieved.
- Successful completion of a pre-apprenticeship program;
- Acceptance in an accredited 4-year nonprofit institution of higher education and evidence of the ability to enroll in college-level coursework. (i.e. letter of acceptance, placement test results, college registration form, etc.)

Pathway 4: Evidence Based Pathway: Earning a passing grade in the courses associated with each of the Keystone Exams on which a score of proficiency was not achieved AND demonstrating three pieces of evidence consistent with goals and career plans.

Including **one** of the following pieces of evidence:

- Attainment of Silver Level on the ACT WorkKeys Assessment
- Attainment of a 3 on an Advanced Placement test;
- Acceptance to an accredited nonprofit institution of higher education other than a 4-year institution and evidence of the ability to enroll in college level coursework; (i.e. letter of acceptance, placement test results, college registration form, etc.)
- Attainment of an industry-recognized credential
- Successful completion of a concurrent enrollment or postsecondary course.

Including **two** of the following pieces of evidence:

- Satisfactory completion of a service learning project. Project proposals must be presented in writing to a guidance counselor for pre-approval by the principal/assistant principal. The proposal should include goals, activities, and contributions to the

community. Projects must be supervised by an adult and completion must be verified in writing. (i.e. National Honors Society, Junior Rotarians, Boy Scouts, etc.);

- Attainment of proficiency or advanced on a Keystone Exam;
- A letter from an employer guaranteeing full-time employment;
- A certificate of successful completion of an internship or cooperative education program;
- Satisfactory compliance with the NCAA's core course for college-bound student athletes with a minimum grade point average (GPA) of 2.0.

Pathway 5: Career and Technical Education Pathway: Earning a passing grade in the courses associated with each of the Keystone Exams on which a score of proficiency was not achieved AND one of the following:

- Attaining an industry-based competency certification related to the Career and Technical Education (CTE) Concentrator's program of study.
- Demonstrating a high likelihood of success on an approved industry-based competency assessment. (National Occupational Competency Testing Institute (NOCTI) or the National Institute of Metalworking Skills (NIMS).

KEYSTONE EXAMS

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content in Algebra 1, Biology and Literature. All students will take the particular Keystone Exam in the grade that they took the course. For example, if a student takes Algebra I in 9th grade, that is the year the student will take the Algebra Keystone Exam. Beginning with the Class of 2023, students must demonstrate proficiency on the Algebra, Literature, and Biology Keystone Exams in order to fulfill the Keystone Proficiency Pathway graduation requirement. This is achieved by scoring Proficient or Advanced on the overall score of the individual exams.

Earning a satisfactory composite score (4452) on the Algebra, Literature, and Biology (while achieving at least a score of proficient on at least one of the three exams AND no less than a score of basic on the remaining two exams) will satisfy Pathway 2: Keystone Composite Pathway. Students who do not demonstrate proficiency on a specific Keystone Exam Pathway will be encouraged to complete supplemental instruction and retake the exam in order to qualify for graduation under Pathway 1 or 2. Supplemental instruction will be consistent with the student educational program. Students and parents will be informed of which exams they will be taking at the start of each school year.

CLASS RANK

Class rank must be calculated by averaging the final percentage of all classes in grades nine through twelve to obtain an overall percentage average. The academic Valedictorian and Salutatorian, the Number 1 and Number 2 ranked students in the class respectively, will be

determined from those students pursuing a curriculum containing the following:

1. Four credits of English
2. Three credits of Science (See Board Policy for specific course requirements)
3. Three credits of Mathematics (See Board Policy for specific course requirements)
4. Three credits of Social Studies (See Board Policy for specific course requirements)
5. Two credits of a Modern Foreign Language

WEIGHTED GRADES

For the purpose of calculating class rank, weighted grades must acknowledge the rigor of academic coursework while maintaining a fair standard for all students.

Advanced Placement Courses & Dual Enrollment:

AP Biology, AP Calculus, CIS Chemistry, AP Language and Composition, AP Literature and Composition, AP U.S. Government and Politics, AP U.S. History, Statistics (DE), Spanish 3, 4, and 5 (DE), French 3, 4, and 5 (DE). **The Carlynton Cyber Academy does not currently have dual enrollment courses available to offer.**

Recognizing that Advanced Placement and dual enrollment courses carry with them the standards established for postsecondary study at the college or university level, these courses will carry a weight for percentages earned higher than 70% for the purpose of calculating class rank. The final grade for each Advanced Placement and dual enrollment course will be calculated by adding 9 percentage points to the final percentage grade earned. Grades of 70% or lower will not be weighted. Although French 3 is not yet Dual Enrollment, the course will still carry a 9 percentage point weight.

Students who have successfully completed a dual enrollment (DE) course are responsible for obtaining the transcript from the partnering college or university if they are planning to attend that college or university. Dual enrollment transcripts are not Carlynton transcripts, therefore cannot be accessed at or requested by Carlynton. Requests for these transcripts must be made to the partnering college. Please see the dual enrollment teacher for instructions on obtaining this transcript.

In order to receive weighted credit, students must participate in the AP testing program.

Scholar Courses

Algebra 1-Scholars (8th Grade), Geometry Scholars, Algebra 2-Scholars, Pre-Calculus, Pre AP US History 1, Pre AP US History 2, Biology 9-Scholars, Chemistry 10-Scholars, Human Anatomy and Physiology, Organic Chemistry, Physics 1, English 9-Scholars, English 10-Scholars.

Recognizing that Scholar Courses demand a higher level of analytical reading ability and cognitive thinking, these courses will carry a weighted grade for percentages higher than **70%** for the purpose of calculating class rank. Grades of **69%** or lower in a Scholar Course will not be

weighted. Weighting in each Scholar Course will occur by adding 4.5 percentage points to the final percentage for the purpose of calculating class rank.

Quality points for GPA calculations will be earned as follows:

90% - 100%	= 4 quality points
80% - 89%	= 3 quality points
70% - 79%	= 2 quality points
60% - 69%	= 1 quality points
0% - 59%	= 0 quality points

NOTE: Weighted grades will not be used to calculate placement in Scholars-level or Advanced Placement classes in any content area.

Career and Technology Center

Parkway programs: CAREER MAJORS

AUTO BODY REPAIR

AUTOMOTIVE TECHNOLOGY

COSMETOLOGY

- Nail Technician License
- Cosmetology Teacher License
-

CONSTRUCTION TECHNOLOGY CLUSTER

- CARPENTRY
- ELECTRICAL SYSTEMS TECHNOLOGY
- HVAC/R
- WELDING TECHNOLOGY

CULINARY ARTS

CYBER SECURITY & NETWORK TECHNOLOGY

DIESEL TECHNOLOGY

GRAPHIC ARTS & PRODUCTION TECHNOLOGY

HEALTHCARE OCCUPATIONS TECHNOLOGY

- Patient Care Technician Certification
- Pharmacy Technician Certification
- Phlebotomy Technician Certification

POWER MOTORSPORTS

PUBLIC SAFETY TECHNOLOGY

SPORTS MEDICINE & REHABILITATION THERAPY TECHNOLOGY (SMARTT)

VETERINARY ASSISTANT TECHNOLOGY

PARKWAY QUESTIONS AND ANSWERS

The following questions and answers concerning Parkway West Career and Technology Center and the admission procedures may help you to make your decision about enrolling.

Q. WHO IS ELIGIBLE TO ATTEND PARKWAY WEST?

Any high school student who has demonstrated academic success in their core subject classes and meets the admission requirements is eligible to attend Parkway West. Students who do not receive a passing grade in all of their core subject classes will not be eligible to attend and can be removed from the program if not maintaining passing grades in all core subject classes.

Q. WHAT ARE THE ADMISSION REQUIREMENTS?

Students admitted to Parkway West are selected on the basis of achievement, interest, and aptitude. Typical considerations are:

School Record: Ordinarily, a "C" average; however, exceptions are made in light of mental maturity and aptitude. Algebra is helpful for some courses; however, exceptions may be made in certain areas of training where the knowledge of advanced mathematics is not necessary.

Maturity: Students who can accept responsibility, have a cooperative attitude, and can demonstrate diligence and perseverance.

Aptitude: Students who have mechanical, numerical, spatial, and manipulative natural abilities.

Q. HOW DO STUDENTS APPLY FOR ADMISSION TO PARKWAY?

A Representative of Parkway West will present information regarding programs. Following the presentations, all students who wish to apply for admission shall request an application form from their counselor. This application must be completed and returned to the counselor before the last day of the current school year, who will forward it to Parkway for processing. ***Late submissions will not be accepted.*** When all admission procedures and final evaluations have been completed, students will be notified of acceptance. The responsibility of this decision rests with the Director and Guidance Coordinator of Parkway West.

Q. WHEN DO STUDENTS ATTEND PARKWAY WEST?

Students attend Parkway West for one-half day for shop and/or laboratory instruction, five days per week. Students start at Carlynton in the morning one-half day for their regularly scheduled required courses of English, Social Studies, Math, Science, and Physical Education. Students will be transported by bus to and from Parkway West by Carlynton School District. Students may participate in extracurricular activities at Carlynton.

Q. WHAT IS THE LENGTH OF THE COURSE OF STUDY?

Each Parkway West course offering is a two-, three-, or four-year program. Continuation in the course is contingent upon the achievement of satisfactory grades and attendance at **both** Carlynton and Parkway West. A full credit will be taken away for students who miss 20 unexcused days will lose 1 credit. Students who miss 30 unexcused days will lose 2 credits and their certification.

Q. WHAT TYPE OF DIPLOMA DOES THE STUDENT RECEIVE?

Students earning the credits from the Parkway courses and earning all the required credits from Carlynton Junior Senior High School will receive a diploma from Carlynton and a certificate of achievement from Parkway West Career and Technology Center.

DROP/ADD POLICY

The goal of the administration is to develop a master schedule that enables each student to take the required and elective classes of his or her choice. In an effort to meet this goal, developing the master schedule becomes a process where many variables, such as class size and teacher availability, must also be considered. As a result, it is imperative for the student to realize that when a course is requested in the initial scheduling process, it is a commitment to schedule and complete the course. Recognizing that a student may have a change in his/her vocational direction, the following Drop/Add policy, # 213, must be followed:

- Any student requesting a schedule change must be done prior to the last day of school in the 2020 - 2021 school year. **All changes must be approved by the building principals.**
- The only schedule that will be considered for changes are those which are absolutely necessary, such as: a mistake on the schedule; a course needed to fulfill a graduation requirement; or a course needed to meet the requirements of a post-high school educational institution.

If a student drops a full-year course after the start of the school year, the student will receive a “W” grade for a dropped course within the first 10 school days (5 days for a semester course); after 10 days, that failing grade (“WF”) will be placed on the student’s report card and the cumulative percentage earned will be used to determine the final percentage average for the course.

NCAA ELIGIBILITY

Student interested in playing a sport at the collegiate level must register at

<https://web3.ncaa.org/ecwr3/>

To assess your eligibility for Division I or Division II schools please go to:

<http://www.ncaa.org/about/what-we-do/academics>

ON-LINE COURSES

1. Any student may take a course on-line or at another educational facility for credit recovery if
 - A. The on-line program or the educational facility is accredited
 - B. The course is being taken as credit recovery (the student has taken the course at Carlynton failed the course, and is taking this course as a “make-up”)
 - C. The student is in their Junior or Senior year and the student’s guidance counselor can determine without the use of these options the student would not graduate “on time.” Under this scenario, a student must use district approved on-line courses.
 - D. Parents/Guardians will be charged a nominal fee for the class if it is done through the Carlynton School District

2. Students may also take courses on-line or at another educational facility under the following guidelines:
 - A. The on-line program or the educational facility is accredited
The course taken is not offered by the Carlynton School District. In this case, the student will only be given credit for the course. The course will not be calculated into the student’s Grade Point Average (GPA/PPA) or class rank.
 - B. The course will be used only as an elective credit
 - C. No more than two (2) credits may be applied in this manner toward meeting graduation requirements
 - D. Parents/Guardians will be responsible for charges incurred in taking the course(s)

ENGLISH

The English department of Carlynton Junior-Senior High School offers classes designed to develop the English skills of all students. While core classes are geared to the academic student, electives and advanced levels accommodate a range of interests and abilities. To qualify for Scholars or Advanced Placement English courses, students must earn an unweighted average of 85% in the previous year’s scholars class or a *90% average in a non-scholars level course. *Please note, the prerequisite for the Advanced Placement English Literature & Composition or

the Advanced Placement English Language & Composition course is an average of 85% in scholars English 10 or a 90% in English 10.

All students are required to complete 4 years of English for graduation.

English 9 *Full Year* *Grade 9* *Credit 1.0* *No. 1100*

English 9 is a course that focuses on the continued development of reading, writing, listening and speaking skills using a variety of approaches. Through units devoted to the active reading of short stories, novels, and drama, the student will participate in activities and discussions in order to comprehend and analyze literature. Students will also learn to communicate effectively through written expression. Students are expected and encouraged to develop their skills each day with the emphasis upon mastery and success.

Academic English 9 *Full Year* *Grade 9* *Credit 1.0* *No. 1101*

Academic English 9 is a course that challenges the student to explore the areas of literature, and refine grammar, writing, speaking and listening skills. Through units devoted to the active reading of short stories, novels, and drama, the student will participate in activities and discussions in order to comprehend and analyze literature. Students will also learn the basic components of research. Students are expected and encouraged to develop their skills each and every day with the emphasis upon mastery and success.

Scholars English 9 *Full Year* *Grade 9* *Credit 1.0* *No. 1102*

Scholars English 9 is a course that involves the study and mastery of advanced concepts attendant to the language arts skills. Concentrated and accelerated areas of study involve reading, writing, speaking, critical thinking, research, and listening skills. This course is for excellent readers who are independent, self-reliant, and highly motivated.

English 10 *Full Year* *Grade 10* *Credit 1.0* *No. 1103*

English 10 continues to focus on the development of reading, writing, listening and speaking skills using a variety of approaches. Through units devoted to the active reading of short stories, novels, and drama, students will participate in activities and discussions in order to comprehend and analyze literature. Students will also learn to communicate effectively through written expression. Students are expected and encouraged to develop their skills each day with the emphasis upon mastery and success.

Academic English 10 *Full Year* *Grade 10* *Credit 1.0* *No. 1104*

Academic English 10 continues to challenge the student to explore the areas of literature, and refine grammar, writing, speaking and listening skills. Through units devoted to the active reading of short stories, novels, and drama, the student will participate in activities and discussions in order to comprehend and analyze literature. Students are expected and encouraged to develop their skills each and every day with the emphasis upon mastery and success.

Scholars English 10 *Full Year* *Grade 10* *Credit 1.0* *No. 1105*

Scholars English 10 is a course that involves the study and mastery of advanced concepts attendant to the language arts skills. Concentrated and accelerated areas of study will involve reading, writing, speaking, critical thinking, research, and listening skills. This course is for excellent readers who are independent, self-reliant, and highly motivated.

English 11 Concepts of Literature *Full Year* *Grade 11* *Credit 1.0* *No. 1118*

By engaging frequently in differentiated instruction, students read and analyze plays, novels, essays, short stories, and poetry, with an emphasis on American literature from various time periods and literary movements. Students compose formal and informal written responses frequently and complete a multi-page and multi-source MLA research paper, benefitting from additional support and scaffolding as needed. Vocabulary instruction and a review of grammar and usage lessons are included. It also offers additional support for students who have to retake the Keystone Literature Exam.

PLACEMENT CRITERIA: Teacher recommendation and/or a non-proficient score on the Keystone Literature Exam.

English 11 Survey of American Literature *Full Year* *Grade 11* *Credit 1.0* *No. 1106*

Students read and analyze plays, novels, essays, short stories, and poetry, with an emphasis on American literature from various time periods and reflecting the influence of diverse literary movements. Students compose written responses of various lengths and in various modes, and complete an MLA-formatted research paper. Vocabulary instruction and a review of grammar and usage lessons are included.

English 12 *Full Year* *Grade 12* *Credit 1.0* *No. 1109*

English 12 continues to focus on the development of reading, writing, listening and speaking skills using a variety of approaches. Through units devoted to the active reading of short stories, novels, and drama, students will participate in activities and discussions in order to comprehend and analyze literature. Students will also learn to communicate effectively through written expression. Students are expected and encouraged to develop their skills each day with the emphasis upon mastery and success.

English 12 Survey of British Literature *Full Year* *Grade 12* *Credit 1.0* *No. 1110*

English 12 Survey of British Literature continues to challenge the student to explore the areas of literature, and refine grammar, writing, speaking and listening skills. Through units devoted to the active reading of short stories, novels, and drama, the student will participate in activities and discussions in order to comprehend and analyze literature. Students will practice applying the components of research. Students are expected and encouraged to develop their skills each and every day with the emphasis upon mastery and success.

AP Language and Composition Full Year Grades 11/12 Credit 1.0 No. 1117

This course offers students the opportunity for advanced study in language and the art of writing and prepares students for the Advanced Placement examination in English offered by the College Board. Students in this college-level course study primarily non-fiction texts such as speeches, essays, and editorials, and compose numerous analytical, argumentative, and synthesis essays. Students should expect an intensive writing focus and emphasis on close, careful reading. Vocabulary instruction and a review of grammar and usage lessons are included. Students take the AP English Language exam at the end of the course. Based on the results of the examination, students may qualify for college credit and/or advanced college standing. This course is open to juniors and seniors; As or Bs in prior English classes are recommended for enrollment.

AP Literature and Composition Full Year Grades 11/12 Credit 1.0 No. 1111

The A.P. English Literature and Composition course helps students read with comprehension and write with clarity. It is designed to be of a college/university level with the challenges of a typical introductory composition and/or literature course. Students investigate a variety of literary masterpieces to develop an appreciation of expression, emotion, and imagination. In doing so, they evaluate the functions of essential elements of literature. Furthermore, students refine composition skills by the intensity of the writing program. They practice ordering ideas into a logical pattern, developing them with pertinent and valid details, and communicating them with fluency and tact while mastering English language usage, spelling, and punctuation. This course is open to juniors and seniors; As or Bs in prior English classes are recommended for enrollment.

Public Speaking and Debate One Semester Grades 10-12 Credit 0.5 No.

This is a one-semester course that covers communications in the first half of the course and speech in the second half. The course begins with an introduction that focuses on understanding the elements, principles, and characteristics of human communication and then goes on to explore the topics of self-awareness and perception in communication. Verbal and nonverbal messages are thoroughly examined as well as learning about cultural and gender differences in the areas of listening and responding. The communications part of the course concludes with units on interpersonal, group, and organizational communication. The speech section of the course starts with an introduction to public speaking and then goes on to take the student step-by-step through speech writing covering topics such as choosing a topic, purpose and thesis; research and supporting materials; and methods for writing and delivering a speech. The course concludes with units on informative and persuasive speeches and students are given the opportunity to critique and analyze speeches in the course. The course is designed for high school students and contains both formative and summative assessments.

SOCIAL STUDIES DEPARTMENT

The required course offerings in Social Studies are designed in adherence to the state standards for Civics & Government, History, Geography, and Economics while providing opportunities for enriched understanding. All students are required to successfully complete American History and American Government and the Economy in order to graduate. Scholar opportunities are available for qualifying students in each of the required American History courses. In addition, Advanced Placement U.S. Government & Politics is offered to students meeting the prerequisites and will satisfy the graduation requirement for American Government and Economics. Students are encouraged to enroll in electives based on their post-secondary interests. The elective course offerings are designed to provide students with the opportunity to explore topics in greater depth and expose students to humanities courses offered at most colleges and universities, but do not count towards graduation requirements for social studies. Advanced Placement U.S. History is offered as a weighted-elective for qualifying students, but does not count towards meeting the graduation requirements for social studies. Students should discuss their intentions with their parents/guardians, guidance counselor, and teachers prior to course selection.

United States History I *Full Year* *Grade 9* *Credit 1.0* *No. 1200*

American History I is a required course for graduation. The course is a survey of the growth and development of American Culture from the Life in English Colonies through Post-Reconstruction. Students will examine the social, political, and economic developments and conflicts experienced in the United States during this period.

Prerequisites: Successful completion of World History II.

United States History II *Full Year* *Grade 10* *Credit 1.0* *No. 1202*

American History II is a required course for graduation. The course is a survey of the growth and development of American Culture from Westward Expansion to contemporary America. Students will examine the social, political, and economic developments experienced in the United States during this period.

Prerequisites: Successful completion of American History I or Scholars American History I

American Government/Economics *Full Year* *Grade 11* *Credit 1.0* *No. 1204*

American Government and the Economy is a required course for graduation. The course explores the social, political and economic challenges facing the United States government. The principle concepts presented in the course include the origins and purpose of government, the rights and civil liberties protected by the Constitution and the role of citizenship in contemporary America. Students will examine the fundamental principles of economics, including scarcity, the pricing system and fiscal and monetary policy. Students will evaluate the impact of economic decisions of the individual and the government on the domestic and global economy. A research project may be used to enhance the objectives of the course. The Commonwealth of Pennsylvania requires the administration of an accumulative exam for all students enrolled in this course.

Prerequisites: Successful completion of American History II or Scholars History II.

AP United States History Full Year Grade 11, 12 Credit 1.0 No. 1205

Advanced Placement United States History is a weighted elective course. **In order to receive weighted credit, the student must participate in the AP testing program.** The course is designed in conformity to the College Board standards, providing college instruction in a secondary environment. The course material covers the Colonial Period to 21st Century America. Students will study and discuss the economic, political, and social history of these periods. **Prerequisites: 85% or higher in Scholars American History II or 90% or higher in American History I & II, & 85% or higher in Grade 10 English, plus recommendation of American History II instructor.**

AP U.S. Government and Politics Full Year Grade 11, 12 Credit 1.0 No. 1206

Advanced Placement United States Government & Politics is a weighted course that adheres to the PA state standards and meets the curriculum requirements, in lieu of American Government & the Economy, for graduation. It is designed in conformity to the College Board standards, providing college instruction in a secondary environment. **In order to receive weighted credit, the student must participate in the AP testing program.** The course provides an analytical perspective on government and politics in the United States. It also involves both the study of general concepts used to interpret U.S. politics and economics, as well as analysis of specific case studies. It requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. political reality.

Prerequisites: Successful completion of American History II with a grade of **85% or higher or the successful completion of Scholars American History II.**

MATHEMATICS DEPARTMENT

The mathematics department recognizes the diversity in both student abilities and interests by offering three levels of study to Carlynton students. The mathematical background necessary for post-secondary success depends upon the intended career choice of the student. Students should discuss their intentions with their parents/guardians, guidance counselor, and teachers prior to selecting their course in mathematics. Regardless of the level chosen, every student is required to obtain **three** credits in mathematics throughout grades 9 – 12. However, the Carlynton mathematics department encourages the study of mathematics in each of the four years of high school.

The Scholars level of study is designed to meet the needs of the student who plans to attend college and major in a curriculum that demands an intensive study of math. Recognizing that Scholar courses demand a higher level of analytical reading ability and cognitive thinking, Scholar courses will carry a weighted grade for percentages **70%** or higher for the purpose of calculating class rank. Grades of **69% or lower** will not be weighted. Weighting in each Scholar course will occur by adding **4.5 percentage points** to the final percentage each quarter for the purpose of calculating class rank. Mathematics Scholar courses are: Geometry-S; Algebra 2-S; and Pre-Calculus. Recognizing that Advanced Placement courses carry with them the standards

established for post-secondary study at the college or university level, Advanced Placement courses will carry a weight of **9 percentage points** for percentages **70% or higher** when calculating class rank. Grades of **69% or lower** will not be weighted. In order to receive weighted credit, a student must participate in the AP testing program. The Advanced Placement course in mathematics is AP Calculus.

NOTE: Weighted grades will NOT be used to calculate placement in Scholars-level or Advanced Placement classes in any content area.

- The Academic level of study is designed to meet the needs of students who plan to attend college, trade school, or other post-secondary formal education. The mathematics courses offered in this course of study are sufficient for admissions and to lay the foundations for the mathematics that will be required in their chosen field of study. The General level of study is designed to meet the needs of the student who plans to acquire further training in a specific career or enter directly into the workforce.

The recommended Mathematics sequence is located in the back. (Appendix A)

Algebra 1 *Full Year* *Grades 9-11* *Credit 1.0* *No.1300*

Algebra 1 is designed to follow Math 8. Algebra 1 consists of the study of numbers and operations, functions, solving equations and inequalities, and graphing linear functions and inequalities. There is also an emphasis on probability and statistics, systems of equations, laws of exponents, and polynomials.

Geometry *Full Year* *Grades 9-11* *Credit 1.0* *No. 1303*

Geometry places an emphasis on logical reasoning in conjunction with proofs and problem solving, and analysis and communication using two and three-dimensional figures. Students will cover points, lines, planes, angles, reasoning and proofs, perpendicular and parallel lines, congruent triangles, quadrilaterals, proportion and similarity, right triangles, circles, polygons, area, volume, and coordinate geometry.

Prerequisites: Successful completion of Algebra 1.

Geometry Scholars *Full Year* *Grade 9* *Credit 1.0* *No. 1304*

Geometry-S places emphasis on logical reasoning in conjunction with proofs, problem solving, and analyzing and communicating using various two- and three-dimensional figures.

Students will study points, lines, planes, angles, perpendicular and parallel lines, congruent triangles, quadrilaterals, proportion and similarity, right triangles, circles, polygons, area, volume, and coordinate geometry. The students will apply reasoning and proof to basic and advanced geometric concepts throughout the course.

Prerequisites: This course is recommended for students who have successfully completed Algebra 1-S with a grade of **80%** or higher.

Algebra 2 *Full Year* *Grades 10-12* *Credit 1.0* *No. 1305*

Algebra 2 consists of the study of linear, quadratic, and polynomial functions. Each of these functions will be graphed, visually interpreted, and applied to real-world situations. Students will learn to compute with radicals, exponentials and logarithms.

Prerequisites: This course is recommended for students who have successfully completed Geometry.

Algebra 2 Scholars *Full Year* *Grade 10* *Credit 1.0* *No. 1306*

Algebra 2-S consists of the study of linear, quadratic, and polynomial functions. Each of these functions will be graphed, visually interpreted, and applied to real-world situations. Students will learn to compute with radicals, exponentials, logarithms, and rationals. In addition to a slightly different content, this course has a swift pace and more rigor than Algebra 2.

Prerequisites: This course is recommended for students who have successfully completed Geometry-S with a grade of **80%** or higher.

Trigonometry *Full Year* *Grades 11, 12* *Credit 1.0* *No. 1307*

Trigonometry will expand upon the geometric and algebraic topics from Algebra 2 and Geometry. Polynomials, exponentials, logarithms, and rationals will be reviewed during the beginning of the course. Then a comprehensive study of trigonometry will begin. This study will begin with angles as they relate to the six trigonometric functions. Then graphing trigonometric functions, trigonometric identities, and solving trigonometric equations will be studied. The course will finish with a study of applications of solving triangles using trigonometric functions.

Prerequisites: This course is recommended for students who have successfully completed Algebra 2.

Statistics *Full Year* *Grades 11, 12* *Credit 1.0* *No. 1308*

Statistics is the science of designing studies, gathering data, and then classifying, summarizing, interpreting, and presenting these data to explain and support the decisions that are reached. Statistics is useful in many other disciplines, including Business, Psychology, Sociology, and Biology. This course places an emphasis on understanding statistical procedures and interpreting their results.

Prerequisites: This course is recommended for students who have successfully completed Algebra 2.

Pre-Calculus Scholars *Full Year* *Grades 11, 12* *Credit 1.0* *No. 1309*

Pre-Calculus has two concentrations. First, there is a comprehensive study of trigonometry, including the applications of solving triangles, graphing trigonometric functions, and the study of trigonometric identities. Second, there is a study of various analytical geometry topics, including conics, logarithmic and exponential functions, and other topics. The goal of the course is to prepare the students to take Calculus.

Prerequisites: This course is recommended for students who have successfully completed Algebra 2-S with a grade of **80%** or higher or have successfully completed Algebra 2 with a grade of **90%** or higher.

AP Calculus *Full Year* *Grade 12* *Credit 1.0* *No. 1310*

This course is AP Calculus AB. The syllabus for the course has been approved by College Board, and will follow the curriculum topics published on the apcentral.collegeboard.com website. Calculus is essentially composed of three main concepts – limits, derivatives, and integrals. This course requires that students have a solid background in algebra, geometry, trigonometry, and analytic geometry.

Prerequisites: Successful completion of Pre-Calculus with a grade of **80%** or higher.

SCIENCE DEPARTMENT

The science department recognizes that students differ in interests and abilities. It has, therefore, designed different levels of study for Carlynton students. The requirements for graduation from Carlynton Junior-Senior High School are only three credits in science; however, the students are encouraged to pursue the study of science throughout their four years in high school. The scientific background needed by a student depends upon the career area in which the student is interested. Students should discuss their interests with their parents, teachers, and guidance counselor before selecting the appropriate science courses.

Careful initial screening and monitoring are extremely important for the proper placement of students in the Science Program. Counselors will work with the students, parents, and teachers using student interests, prior grades, achievement test scores, and teacher recommendations in assigning and monitoring student placement. Any student who does not meet the prerequisite requirement for all Advanced Placement sciences will be moved to an available academic or scholars level science course.

The recommended Science sequence is located in the back. (Appendix B)

Biology *Full Year* *Grades 9, 10* *Credit 1.2* *No. 1400*

This is a full year course in Biology designed to provide students with the necessary skills to score proficient or advanced on the state Keystone Exams. The areas of study during the first semester will adhere to the assessment anchors and eligible content specified for Module A of the Keystone Exams (Cells and Cell Processes). These include: Basic Biological Principles, The Chemical Basis of Life, Bioenergetics and Homeostasis and Transport. The 2nd Semester's areas of study will reflect the assessment and eligible content specified for Module B of the Keystone Exams (Continuity and Unity of Life). These include: Cell Growth and Reproduction, Genetics, Theory of Evolution and Ecology. This course may contain content, reinforcement, discussions, evaluations, and enrichments that meet the Academic Standards for Science and Technology. Homework,

class activities, quizzes, and tests, will all be used in the grading process. All students must pass this course and score proficient or above on the corresponding Keystone Biology exam to meet graduation requirements.

Biology 9 Scholars *Full Year* *Grade 9* *Credit 1.2* *No. 1401*

Scholars Biology is specifically designed to prepare students for taking Advanced Placement Biology in their junior or senior year of school. As with general biology, Scholars Biology will be taught according to the eligible content of the Keystone Exam curriculum. However, Scholars Biology will also emphasize the big ideas, enduring understandings, and learning objectives of the AP Biology College Board curriculum. This will provide the foundation for student success in AP Biology. The ultimate goal of Scholars Biology is to maximize the student's likelihood of doing well on the College Board AP Biology exam that will be given at the completion of AP Biology. Students who pass this exam receive college credits for biology.

Prerequisites: The student must have previously taken Scholars Algebra 1 and Science 8. The student must have received a minimum of 85% grade in those courses.

Earth and Geological Science *Full Year* *Grade 10, 11, 12* *Credit 1.0* *No. 1403*

This course may contain content, reinforcement, discussions, laboratory investigations, evaluations, and enrichments that meet the Academic Standards for Science and Technology. The course includes the study of physical geology, historical geology, oceanography, meteorology, environmental resources, and astronomy.

Prerequisites: Students must have successfully completed Biology and passed the Keystone, or successfully completed Biology and completed the Biology Concepts course (or other approved remediation course).

Conceptual Chemistry *Half Year* *Grades 11, 12* *Credit 0.5* *No. 1404*

Chemistry explains the structure and composition of matter and the various changes that matter undergoes. It explores the properties, trends, and behaviors of the elements of the periodic table. Topics will include, but not be limited to; nomenclature, chemical equations, bonding, and behavior of gases, energy exchanges and **moderate** application of mathematics. The laboratory tasks develop proper technique through directed experiments utilizing computers and other specialized equipment.

Prerequisites: This course is open to students in grades 11 and 12 who have passed Earth and Geological Science.

Chemistry *Full Year* *Grades 10-12* *Credit 1.2* *No. 1405*

Chemistry explains the structure and composition of matter and the various changes that matter undergoes. It explores the properties, trends, and behaviors of the elements of the periodic table. Topics will include, but not be limited to, nomenclature, chemical equations, bonding, and behavior of gases, energy exchanges, and intensive applications of mathematics. The laboratory tasks develop proper techniques through directed experiments utilizing computers and other specialized equipment..

Prerequisites: Chemistry is open to students in grades 10 who have passed Biology and who have completed Algebra I with a minimum grade of **82%** and who have completed or are concurrently taking Algebra 2.

This course is also open to students in grades 11 and 12 who have completed both Algebra I with a minimum grade of 82% or have passed Algebra I and Algebra 2 or are concurrently taking Algebra 2. Students also must score proficient or advanced on the Biology Keystone Exam.

Physics I *Full Year* *Grades 11, 12* *Credit 1.0* *No. 1409*

Physics I is a course that provides the student with an organized and logical presentation of the basic concepts and principles of physics through a broad range of interesting applications to the real world. Each major topic will be introduced by demonstration followed by student application of the concepts through laboratory work, mathematical problem solving, and discussion of critical thinking questions. Tools used will include, but are not limited to, computers, computer simulation, multimedia presentation, and graphical software to help reinforce these concepts. Physics I may include units on kinematics, Newton's Laws, Rotational motion, planetary motion, energy, simple machines, and momentum.

Prerequisites: This course is open to students in grades 11 and 12 who have completed Algebra 2 with a final grade of **70%** or higher and have taken or are concurrently taking Trigonometry or Pre- Calculus.

Human Anatomy and Physiology *Half Year* *Grades 11, 12* *Credit 0.5* *No. 1413*

This course is designed to cover the major human body systems. It is especially relevant for students who may be interested in a health related career. The goal is to provide students with a basic understanding of the structure, functions and disease process associated with the human body. Emphasis will be placed on medical terminology and procedures. Students will also become aware of the many health- related and medical career options available for them to pursue.

Environmental Science *Half Year* *Grades 11, 12* *Credit 0.5* *No. 1414*

This course explores the current state of our environment with two main goals:

1. Explore how humans interact with the environment
2. Find ways to deal with environmental problems and live more sustainably.

Students will learn about climate change, ecosystem services (both local and global), biodiversity, cycles within ecosystems and solution to our human impacts. Students will evaluate the relative risk associated with environmental problems (both natural and man-made) and examine alternative solutions for resolving and/or preventing them.

Prerequisites: This course is open to students in grades 11 and 12 who have passed Earth and Geological Science.

PHYSICAL EDUCATION AND WELLNESS

The Carlynton High School Physical Education and Wellness program is designed to provide students with knowledge of overall health practices and lifestyle choices that promote personal health and wellbeing throughout life.

Medically Excused Students - Should a physician deem it necessary that a student must be excused from a specific activity an attempt will be made to place the student in modified activities with the physician's approval. Should the student be medically excused from all physical activity the student will be assigned written projects aligned to the learning activities of his/her regular physical education class. Upon completion of the assigned projects the student's work will be evaluated and a grade will be given accordingly. Failure to complete the written assignments will result in a 0% grade and no credit will be given for the course. When a student is able to return to physical activity a physician's medical release MUST be presented to the physical education department before any activity will be permitted.

Physical Education 9 *Half Year* *Grade 9* *Credit 0.5* *No. 2200*

This course is designed for all students in grade 9 to meet the physical education requirement for graduation. Students will be able to apply sport and game strategies to complex games and physical activities as well as describe and apply the components of health--related and skill--related fitness to movement performance. Instruction and learning activities will focus on the effects of regular participation in physical activity on adolescent health improvement, motor skill improvement, and the principles of training.

Physical Education 10-12 *Half Year* *Grades 10-12* *Credit 0.5* *No. 2202*

This course is designed for all students to meet the physical education requirement for graduation. Students will be able to apply knowledge of movement skills, health-related and skill--related fitness, and movement concepts to identify and evaluate physical activities that promote personal lifelong participation. Instruction and learning activities will focus on factors that affect the responses of body systems during physical activity, the social, physiological and psychological effects of regular participation in physical activity, evaluating factors that affect physical activity and preferences of adults, the application of game strategies for different categories of physical activities. The effects of positive and negative interactions of adolescent group members, practice strategies for skill improvement, lifetime physical activity participation and the application of scientific and biomechanical principles to movement.

Spanish IV **Full Year** **Grades 11, 12** **Credit 1.0** **No. 1504**

Spanish IV is designated for the advanced Spanish student who has successfully met all requirements in Spanish I, Spanish II, and Spanish III. The focus of this course and the program is on proficiency in the language in all areas. Extensive work is required in reading, writing, grammar, listening comprehension, high level oral communication, and knowledge of Hispanic and Spanish literature and art. The goal of learning a language is to be able to communicate with different peoples and cultures foreign to our own. Therefore, conversation is taught through accomplishing real world tasks in conjunction with learning about the cultures of the Spanish-speaking world.

Prerequisites: This course is open to students who have achieved a 70% or higher in Spanish III.

French I **Full Year** **Grades 9 - 12** **Credit 1.0** **No. 1511**

This class provides an introduction to the French language and culture of French speaking countries. Emphasis is placed on listening, speaking, reading, and writing French. In it, students will communicate in French as often as possible and demonstrate an understanding of practices, products, and perspectives of cultures of French-speaking areas.

Prerequisites: This course is open to students in grades 9-12 who have achieved a 70% or higher in English. 8th grade students who have scored proficient or advanced on the 7th Grade PSSA, earned a 70% or higher in their English class and have a teacher's recommendation may also elect to take French I.

French II **Full Year** **Grades 9 - 12** **Credit 1.0** **No. 1512**

This class provides further opportunity for speaking, listening, reading, and writing French. In it, students will communicate in French at a more advanced level and demonstrate a further understanding of the practices, products, and perspectives of the culture of French-speaking areas.

Prerequisites: This course is open to students who have achieved a 70% or higher in French I.

French III **Full Year** **Grades 10 - 12** **Credit 1.0** **No. 1513**

This course is designed to provide more opportunities to strengthen audio-lingual skills. It will aim to increase appreciation of the French language and of the cultures of all French-speaking people. In French 3 the students will strive for satisfactory performance in listening, speaking, reading and writing. They will engage in conversations, narrations, composition writing and reading selections from a variety of target-language materials. Students will demonstrate an understanding of cultural differences in everyday life and understand the contributions native French speakers have made to the world of art, literature and music.

Prerequisites: This course is open to students who have achieved a 70% or higher in French 2.

French IV **Full Year** **Grades 11, 12** **Credit 1.0** **No. 1514**

French 4 is a continuation and broadening of skills learned in French 3. Emphasis is placed on communication, both oral and written. French literature (poems, and stories) will be read and

discussed. Students will engage in more advanced conversation, narrate events and write journal entries. They will develop a deeper awareness of the cultures of French-speaking people around the globe. French films, short videos and music will be used to increase understanding of French language and culture. Longer audio passages will be used to help develop listening skills.

Prerequisites: This course is open to students who have achieved a 70% or higher in French 3

BUSINESS COURSE OFFERINGS

Business and Personal Law *Half Year* *Grades 10 - 12* *Credit 0.5* *No. 1703*

This course will enhance the student's knowledge of the law and its effect on their everyday lives. The course will explore the various facets of the law as it applies to the high school student including discussions on the law and legal problems, contracts, buyers and sellers, debtors and creditors and criminal law including discussion of current cases and court decisions.

Introduction to Marketing *Half Year* *Grades 10 - 12* *Credit 0.5* *No.*

Students will gain an understanding of the principles of marketing. Marketing includes creating a product or service concept, identifying who is likely to purchase it, promoting it, and learning how to sell it. Topics will include the marketing process, marketing planning, the marketing environment, and the trends, opportunities, and challenges in the marketing world today.

Money and You *Half Year* *Grades 10 - 12* *Credit 0.5* *No. 1704*

Do you ever think about making money? Whatever your plans for the future may be, making smart decisions about money now can help turn those dreams into reality. Whether it's funding your higher education or buying your first car, a little financial planning today can make a world of difference tomorrow. And the good news is: the earlier you start making smart decisions about money, the more impact it will have on your future. Great choice for all students. This course will give you the foundational knowledge you need to make the right financial decisions, manage your money, and put it to work for you.

ART COURSE OFFERINGS

Creativity and Innovation *Half Year* *Grades 9 - 12* *Credit 0.5* *No. 1801*

What is creativity? How does innovation advance modern society? Explore the definition of creativity and multiple solutions to a single artistic problem. This semester long elective is the **first** art course the high school student should take and will incorporate a variety of design principles and materials in creating two and three dimensional work and making connections to real world applications.

Graphic Design Half Year Grades 9 - 12 Credit 0.5 No. 1805

Where do we see art in everyday life? How does design, advertising, and packaging influence what we do and buy today? Graphic design combines images, words, and ideas, to communicate messages to an audience. Learn to develop solutions to real world problems and combine creative thinking with a wide range of skills using traditional and contemporary tools. This course will focus on creative problem solving while exploring current technology, such as Adobe Photoshop, Illustrator, and/or InDesign.

Prerequisite: This course is open to students after successful completion of Creativity and Innovation.

World Art History Half Year Grades 9 - 12 Credit 0.5 No. 1807

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth-century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth- and nineteenth-century art in Europe and the Americas; and modern art in Europe and the Americas.

FAMILY/CONSUMER SCIENCE COURSE OFFERINGS

Independent Living Half Year Grade 12 Credit 0.5 No. 2004

This course covers problems confronting a young adult today and becoming prepared to face the challenges of living on their own. Students will study career and workforce preparation, personal finance and money management, housing decisions and living with others, as well as decision-making skills in the areas of meal planning and setting up a household. This course will address the needs of students according to the PA F&CS Standards 11.2.12: Balancing Family, Work, and Community Responsibility.

Food Science & Nutrition Half Year Grades 9 – 12 Credit 0.5 No. 2006

This course is for students interested in foods and nutrition. It is designed to be an in-depth study of the nutritional and food preparations skills needed by individuals and families. This course will address the needs of students according to the PA F&CS Standards 11.3.9 & 12 Food Science and Nutrition.

COMPUTER/TECH COURSE OFFERINGS

Microsoft Digital Applications *Half Year Grades 9 - 12 Credit 0.5 No. 2107*

This course is designed to prepare students for the workforce by learning how to use Microsoft Office Applications such as Word, Excel, and PowerPoint. Students will complete various training in Microsoft Virtual Academy, which emphasizes concepts and skills included on the Microsoft Office Suite Exam.

Computer Science Discoveries *Half Year Grades 9 - 12 Credit 0.5 No. 2108*

Computer Science Discoveries is an introductory computer science course designed for 9th and 10th grade students. The curriculum emphasizes problem solving, creation, and collaboration, while introducing students to the many ways computer science impacts their lives. Students will use the Code.org Curriculum to explore the problem solving process, build websites in HTML and CSS, and create interactive animations and games in Javascript using Game Lab.

Computer Science Principles *Full Year Grades 11 - 12 Credit 1.0 No. 2109*

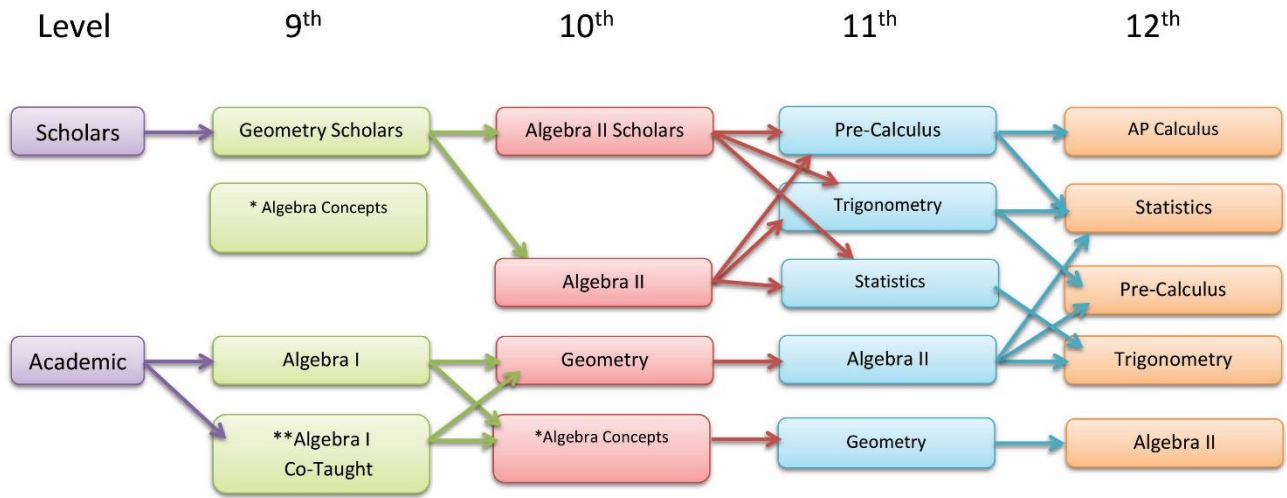
This course is a rigorous, advanced course designed to broaden participation in computer science. Built as an extension on the Computer Science Discoveries course, students will use collaboration, creativity, and computational thinking to problem solve, code and manipulate data, learn programming language, understand general principles of algorithms, and create and design computer applications that can be useful in our current society.

Prerequisite: Students must successfully complete Computer Science Discoveries Course.

Engineering Essentials *Half Year Grades 9-12 Credit 0.5 No. 2110*

Description: Engineering Essentials offers students of all backgrounds the opportunity to experience this important field. The course aims to broaden participation in engineering by highlighting its impact and challenging student perceptions of the field, with a focus on exploring global engineering challenges and sustainability goals, as well as personal, societal, environmental, and economic impacts of engineering solutions. Full Year Course.

Appendix A - Math



Notes: *Algebra Concepts is for students who did not score Proficient or Advanced on the Algebra I Keystone.
 **Algebra I Co-Taught is by placement only.

Appendix B - Science

