

— 2026-2027 —

CARLYNTON CYBER ACADEMY

PROGRAM OF STUDIES



Carlynton Cyber Academy

Program of Studies

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Carlynton School District

Our Mission, Vision, and Values

MISSION

The Mission of the Carlynton School District is to provide a challenging educational program for all students within a safe, nurturing environment which will enable them to function as productive, ethical and responsible global citizens.

VISION

The Carlynton School District will inspire a passion for learning, a commitment to excellence, and a respect for the diversity of individuals as we prepare our students for the demands of a changing global society.

VALUES

Students: Students assume a vital role in the District's ability to attain the mission and the vision. Students must respect learning through active participation and a scholarly approach. Students must respect school property issued to support learning activities and facilities that enhance learning in both curricular and extracurricular activities. Students must respect themselves through healthy lifestyles and respect the needs and differences of others. Students must respect safety to ensure all students have access to all available services.

Staff: All members of the staff must recognize that instruction must be engaging, challenging, purposeful and relevant and be able to employ best practices to nurture a culture conducive to student learning and continuous professional growth. Staff members must utilize a variety of assessment data to assist in driving instructional decisions. Through the recognition and belief that students can be successful learners, all staff must be diligent in creating appropriate and supportive environments. Staff must recognize that growth and achievement take place not only in the academic arena but also in social, physical and emotional contexts. Collectively the staff must contribute to creating a safe environment where all students can take intellectual risks.

Administrators: School District administrators must embrace decision making models that are aligned to the Mission, Vision and Strategic Goals with Financial Stewardship. Administrators must contribute and use supervisory positions to ensure that learning and workplace environments are safe and conducive to learning and work flow. Administrators must communicate effectively to all stakeholders and manage conflict in a manner that is constructive and respectful while listening and effectively responding to concerns. School officials must maintain high expectations for students' growth and provide effective resources, facilities, and support for instruction and learning. School administrators must regularly examine and support a curriculum that is engaging, relevant, and accessible to all students.

Parents: Parent involvement and active engagement in their child's education is inherently connected to the success of the District successfully attaining the mission and vision. Parents must encourage and support all students in their pursuit and participation in academics, arts, activities, and athletics. Parents must provide feedback to appropriate school personnel and share concerns to promote positive change and institutional growth. Parents must have opportunities to build productive partnerships through community engagement.

Community: Community members must feel as welcomed partners while contributing to the successful attainment of the mission and vision of the school district. Community members must be provided with opportunities to work in unison with the school district to accomplish goals. Community members must support and encourage the general wellbeing of all students in their pursuit of academics, arts, activities, and athletics. Community members must provide feedback to appropriate school personnel and share concerns to promote positive change and institutional growth. Community members must have opportunities to build productive partnerships through community engagement.

Carlynton School District

A Message For The Carlynton Cyber Academy Student

The Carlynton Cyber Academy 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 Cyber Academy.

Our mission is to maintain high expectations for all of our students. We encourage students, parents, and guardians to become familiar with the contents of the Program of Studies to support the successful education of students in the Carlynton Cyber Academy.

All courses are college and career preparatory because we believe that it is our responsibility to provide all students 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 Carlynton Cyber Academy student has the opportunity to engage in rigorous and relevant curriculum that will prepare to meet future demands. A concerted and consistent effort in the Carlynton Cyber Academy will place students in a position for success.

Together We Can,

Michael C. Loughren
Coordinator of Educational Programs and Services
michael.loughren@carlynton.k12.pa.us
(412) 429-2500 ext. 1109

The Carlynton Cyber Academy 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 must meet the graduation requirements outlined in Board Policy #217. Students are required to schedule at least six (6.0) credits per year in grades 9 – 12 and strongly encouraged to schedule seven credits. 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.**

Scheduling For the Cyber Student

Carlynton Cyber Academy students will have a scheduling meeting with their respective counselor prior to the end of the current school year. During these meetings students will review course offerings with the counselor and create a schedule. All schedule change requests must be submitted prior to the first day of the school year.

Students who wish to either enter or exit from the Carlynton Cyber Academy will only be permitted to do so at the conclusion of each 9 week grading period.

Prior to doing so, Students will need to complete the following steps:

1. Meet with their counselor
 2. Complete the Carlynton Cyber Academy Application (which requires signatures from; the student, the parent/guardian, the counselor, and building principal).
 3. Submit the completed application to The Coordinator of Educational Programs and Services
- Note:** Students with an IEP will need to have a revision meeting to the student's IEP prior to enrollment in the Carlynton Cyber Academy.

Graduation Requirements

As established by the Carlynton School District Board of Education and the Pennsylvania Department of Education, a minimum of 24.5 credits, as outlined below, is required to be completed in grades 9-12. A minimum of 6 credits must be scheduled each year, unless administratively approved through an academic plan. Participation in the commencement ceremony requires ALL credits and requirements to be satisfied upon the student's completion of the normal school year. Students and parents are responsible for knowing the requirements for promotion and graduation and planning accordingly. Additionally, a student's post-secondary plan may require coursework and subject-specific credits beyond minimum requirements for graduation. Students and families should seek guidance from school counselors and directly from potential post-secondary programs and institutions to appropriately plan course and credit attainment to meet these external requirements.

Minimum Credit Requirements for Promotion for All Students

In order to be promoted each year, students must pass a minimum number of credits. Listed below is the minimum total number of credits a student must have earned by the end of each grade to be promoted to the next grade level. Opportunities for credit recovery will be available during the summer at a cost to the student.

Grade 9	6.0
Grade 10	12.0
Grade 11	18.0
Graduation	24.0

Requirements for Class of 2027, 2028

Requirement Category	Required Credits	Course Minimums (unless administratively waived through an academic plan)
English	4.0	➤ 1.0 credit of English 9 ➤ 1.0 credit of English 10 ➤ 1.0 credit of English 11 or AP Language & Composition ➤ 1.0 credit of English 12 or AP Literature and Composition
Social Studies	3.0	➤ 1.0 credit of Survey of US History ➤ 1.0 credit of Global Affairs ➤ 1.0 credit of American Government or AP Government
Mathematics	3.0	➤ 1.0 credit for Algebra I ➤ 2.0 credits of math electives <i>Note: Courses completed prior to ninth grade do not apply to high school graduation requirements. Students who have completed Algebra I prior to ninth grade are required to complete 3.0 high school math credits earned through additional math coursework.</i>
Science	3.0	➤ 1.0 credit for Biology ➤ 2.0 credits of science electives
Health and Physical Education	1.5	➤ 0.5 credit of Health ➤ 1.0 credit of Physical Education
Additional Electives	9.5	➤ Any courses beyond those applied for above requirements. Students are encouraged to consider elective courses in Arts & Humanities and/or STEAM related departments, as well as those aligned to their Career Pathway, to provide themselves with a well-rounded education
State Requirement		➤ Proficient or Advanced on the Algebra I, Biology, and Literature Keystone Exams or Demonstration of proficiency through an Act 158 pathway. ➤ Career Artifacts Portfolio ➤ Successful completion of state required Civics exam
Total Credits	24	

Requirements for Class of 2029 and Future classes

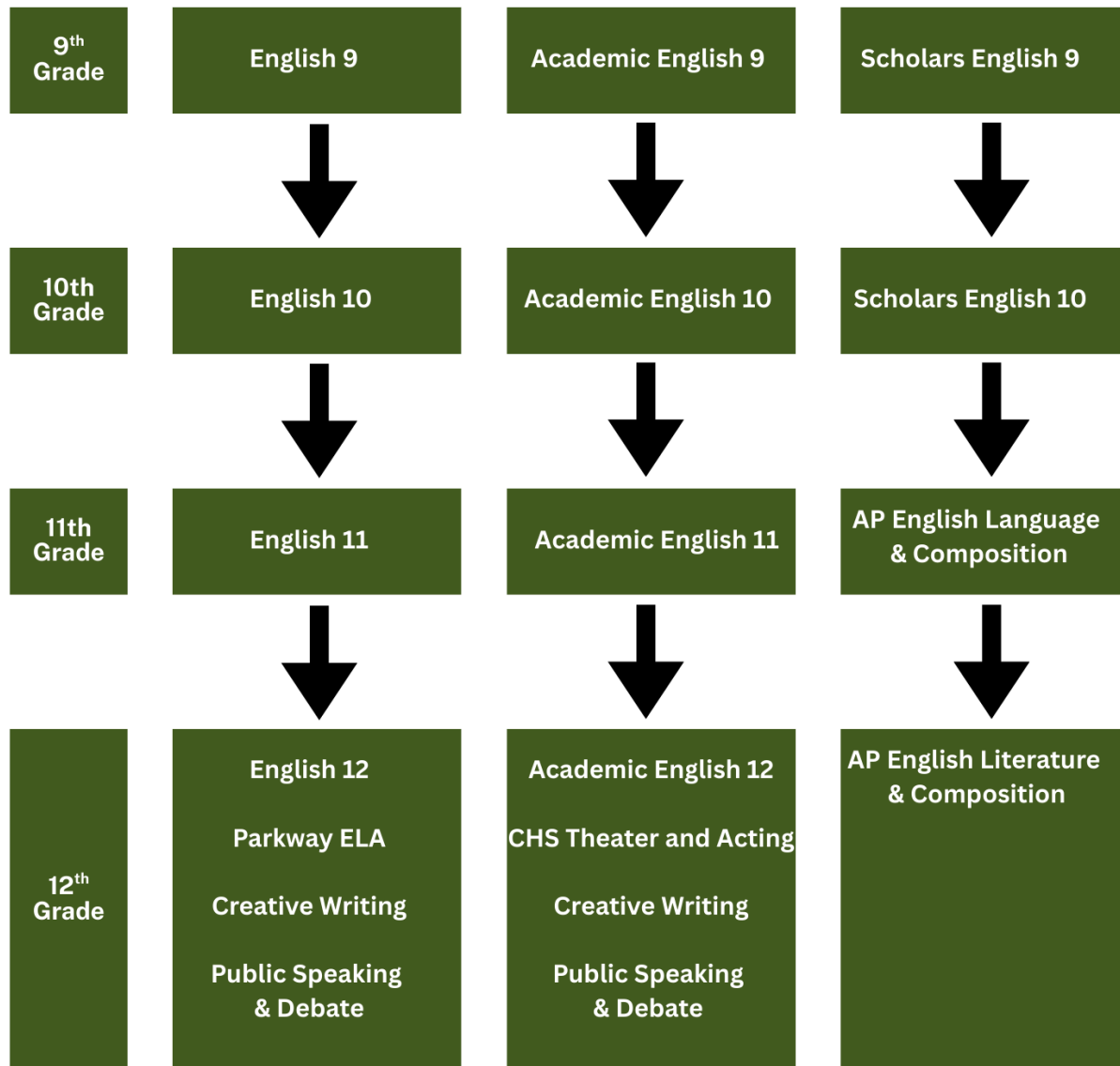
Requirement Category	Required Credits	Course Minimums (unless administratively waived through an academic plan)
English	4.0	➤ 1.0 credit of English 9 ➤ 1.0 credit of English 10 ➤ 1.0 credit of English 11 or AP Language & Composition. ➤ 1.0 credit of English 12 or AP Literature and Composition
Social Studies	3.0	➤ 1.0 credit of Survey of US History ➤ 1.0 credit of Global Affairs ➤ 1.0 credit of American Government
Mathematics	3.0	➤ 1.0 credit for Algebra I ➤ 2.0 credits of math electives <i>Note: Courses completed prior to ninth grade do not apply to high school graduation requirements. Students who have completed Algebra I prior to ninth grade are required to complete 3.0 high school math credits earned through additional math coursework.</i>
Science	3.0	➤ 1.0 credit for Biology ➤ 2.0 credits of science electives
Health and Physical Education	1.0	➤ 0.5 credit of Health ➤ 0.5 credit of Physical Education
Digital Productivity & Data Literacy	0.5	➤ 0.5 credit of Digital Productivity & Data Literacy
Personal Finance	0.5	➤ 0.5 credit of Personal Finance
Additional Electives	9.0	➤ Any courses beyond those applied for above requirements. Students are encouraged to consider elective courses in Arts & Humanities and/or STEAM related departments, as well as those aligned to their Career Pathway, to provide themselves with a well-rounded education
Career Portfolio	0.5	➤ 0.5 credit for successful completion of the Career Education and Work Standards Portfolio (i.e job shadowing, internships, externships, industry based learning experiences and indicators, etc.)
State Requirements		➤ Proficient or Advanced on the Algebra I, Biology, and Literature Keystone Exams or Demonstration of proficiency through an Act 158 pathway. ➤ Successful completion of state required Civics exam
Total Credits	24.5	

Course Sequence Charts

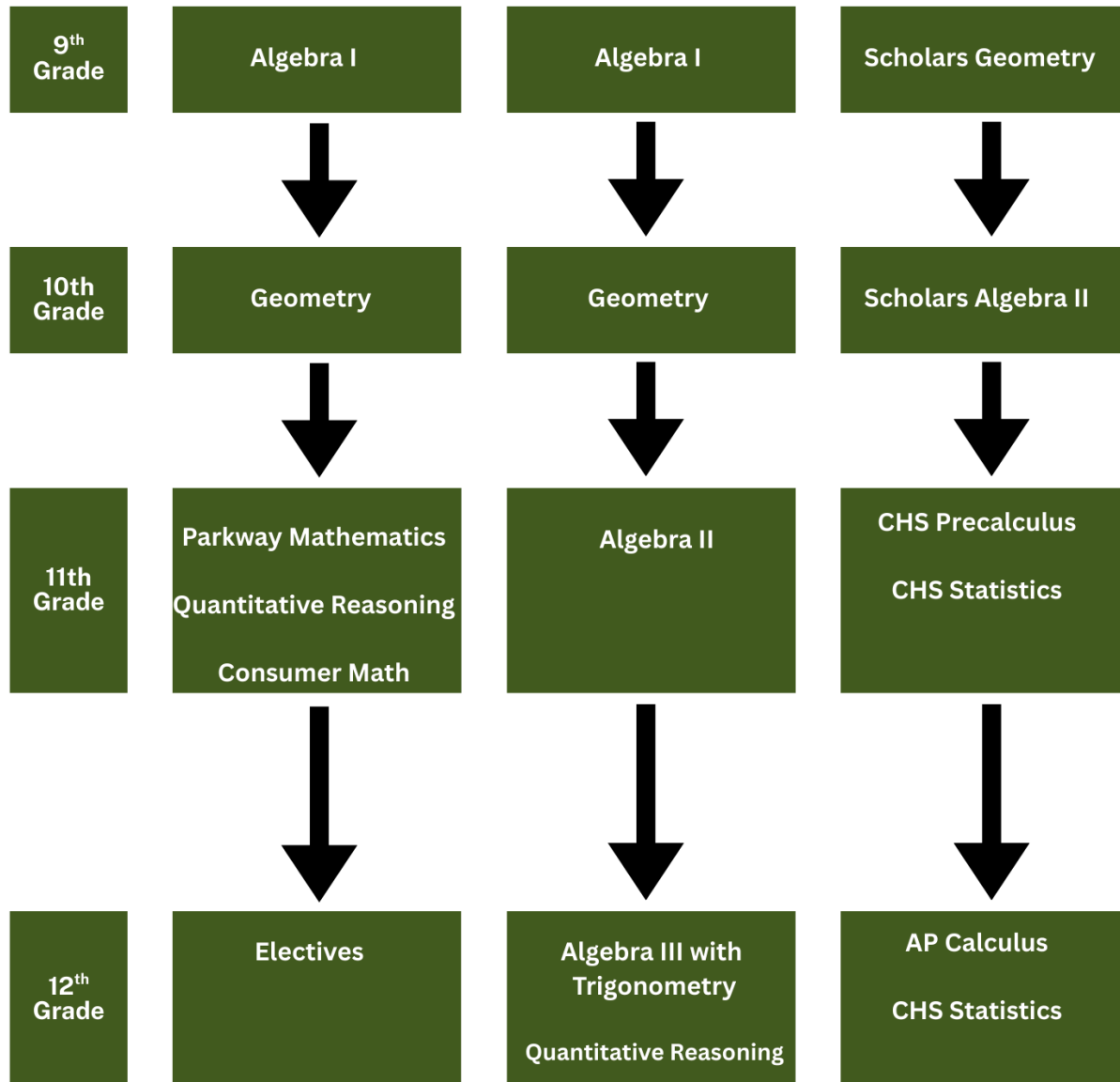
The sequence charts are designed to provide students and families with a clear overview of the typical progression of courses from grades 9 through 12. These charts illustrate how foundational skills developed in earlier grades support more advanced coursework in later years and help students plan for future academic opportunities.

While the charts reflect a standard course sequence, individual student pathways may vary based on academic performance, teacher recommendations, assessment data, and graduation requirements. Course placement decisions are made to ensure each student is appropriately challenged and supported as they progress toward college, career, and post-secondary readiness.

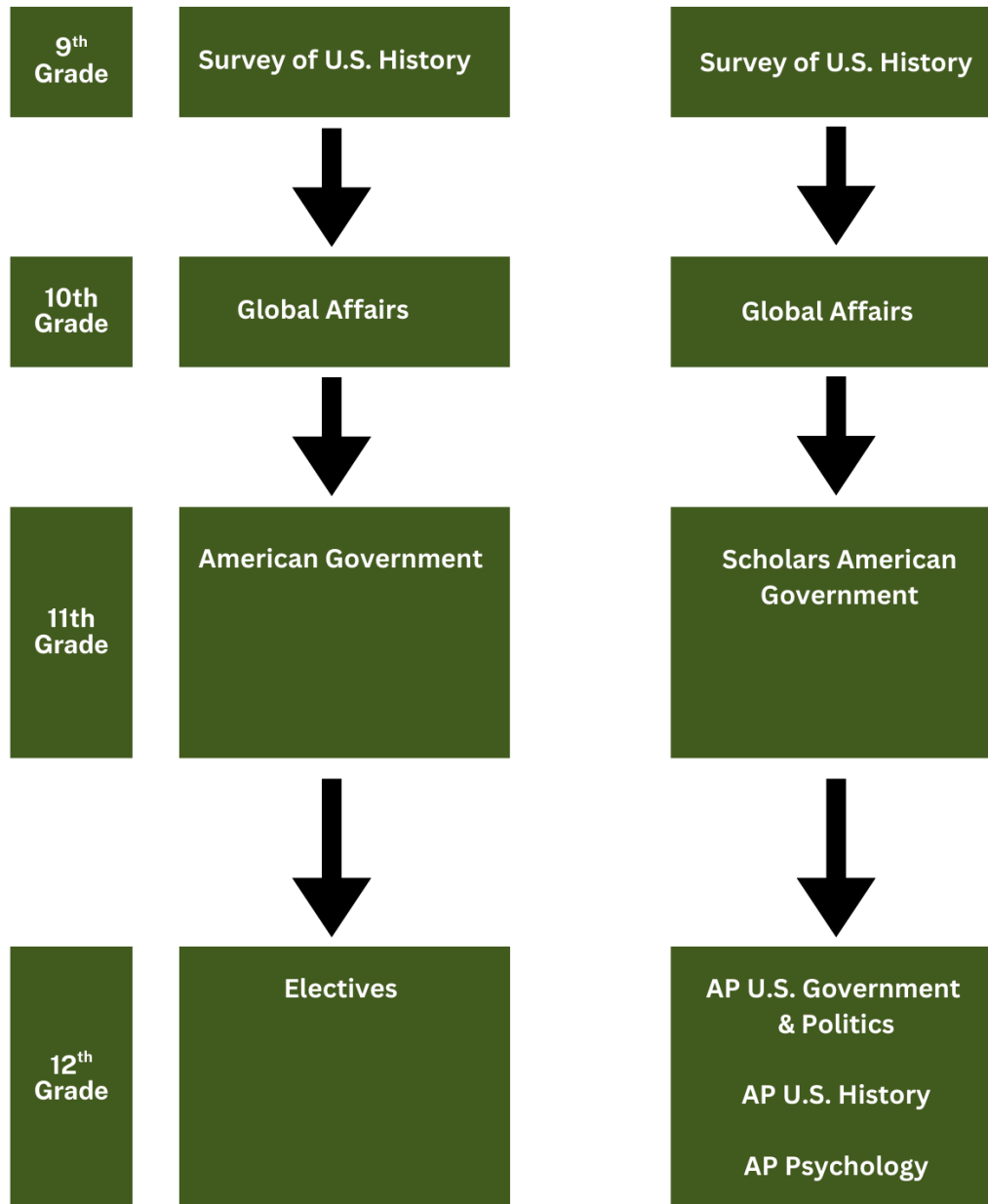
Course Sequences: English



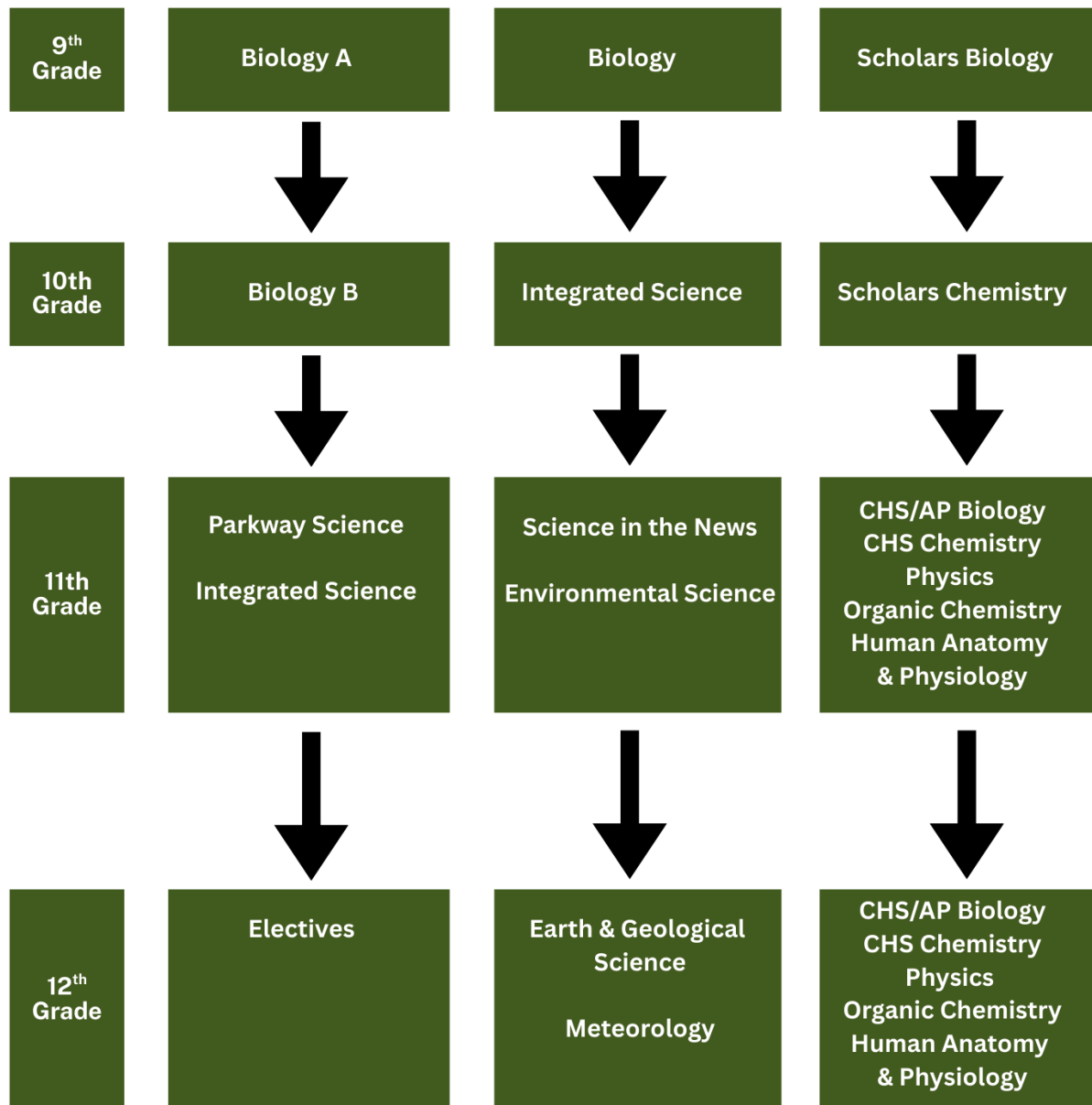
Course Sequences: Mathematics



Course Sequence: Social Studies



Course Sequence: Science



ACT 158 Graduation Requirements

In accordance with PA Act 158, Carlynton High School has aligned graduation pathways related to state assessments and proficiency in algebra 1, biology, and literature standards. Aligned with Pennsylvania Department of Education (PDE) requirements and the federal Every Student Succeeds Act (ESSA), every student will attempt the Algebra 1, Biology, and Literature Keystone Exams upon completion of the aligned course for each exam. In the event a student does not earn a minimum proficient score on the first attempt, he/she will be offered supplemental instruction to prepare to retake the exam during the subsequent testing wave offered by Carlynton. Students who do not demonstrate proficiency on a second attempt may meet the requirements through one of the alternate graduation pathways outlined below. Student scores on the Keystone Exams will be recorded on the student's official transcript.

Additionally, PA Act 136, signed in November 2020, establishes that any students who missed the end-of-course exams in Algebra 1, Biology, or 10th Grade Literature in the spring of 2020, due to statewide cancellation of the exams as a result of the global COVID-19 pandemic, will receive a non-numeric proficient-level score on those exams if they passed the respective course(s) in those areas. This act only pertains to exams missed in May of 2020. Students who wish to earn a numerical score or improve score levels may still opt to take the exam.

Furthermore, students in the Class of 2023 and beyond are required by this legislation to meet one of the established graduation pathways in addition to local graduation requirements.

- **Keystone Proficiency Pathway:** Scoring proficient or advanced on each Keystone Exam - Algebra I, Literature, and Biology.
- **Keystone Composite Pathway:** Earning a satisfactory composite score of 4452 on the Algebra I, Literature, and Biology Keystone Exams (while achieving at least a proficient score on at least one of the three exams and no less than a basic score on the remaining two).
- **CTE Pathway:** For students enrolled in a Parkway West CTC program, the successful completion of aligned coursework for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency and one artifact from the pathway criteria list.
- **Alternate Assessment Pathway:** Successful completion of aligned coursework for each academic content area associated with each Keystone Exam on which the student did not achieve proficiency and one artifact from the pathway criteria list.
- **Evidence Based Pathway:** Successful completion of aligned coursework for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency and demonstration of three artifacts consistent with the student's goals and career plans from the pathway criteria list.

Lastly, Act 35 of 2018 requires all school entities to administer a locally developed assessment of U.S. history, government, and civics as an end-of-course assessment. Every student must complete the Civics Exam, which is embedded within the American Government, Honors American Government and AP US Government & Politics curriculum at Carlynton. Most students will complete this exam in the corresponding course during their junior year of high school. Any student that does not take an aligned course while attending Carlynton High School is required to complete the Civics Exam prior to being eligible to graduate.

Pathway 2: 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 (31) 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 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:

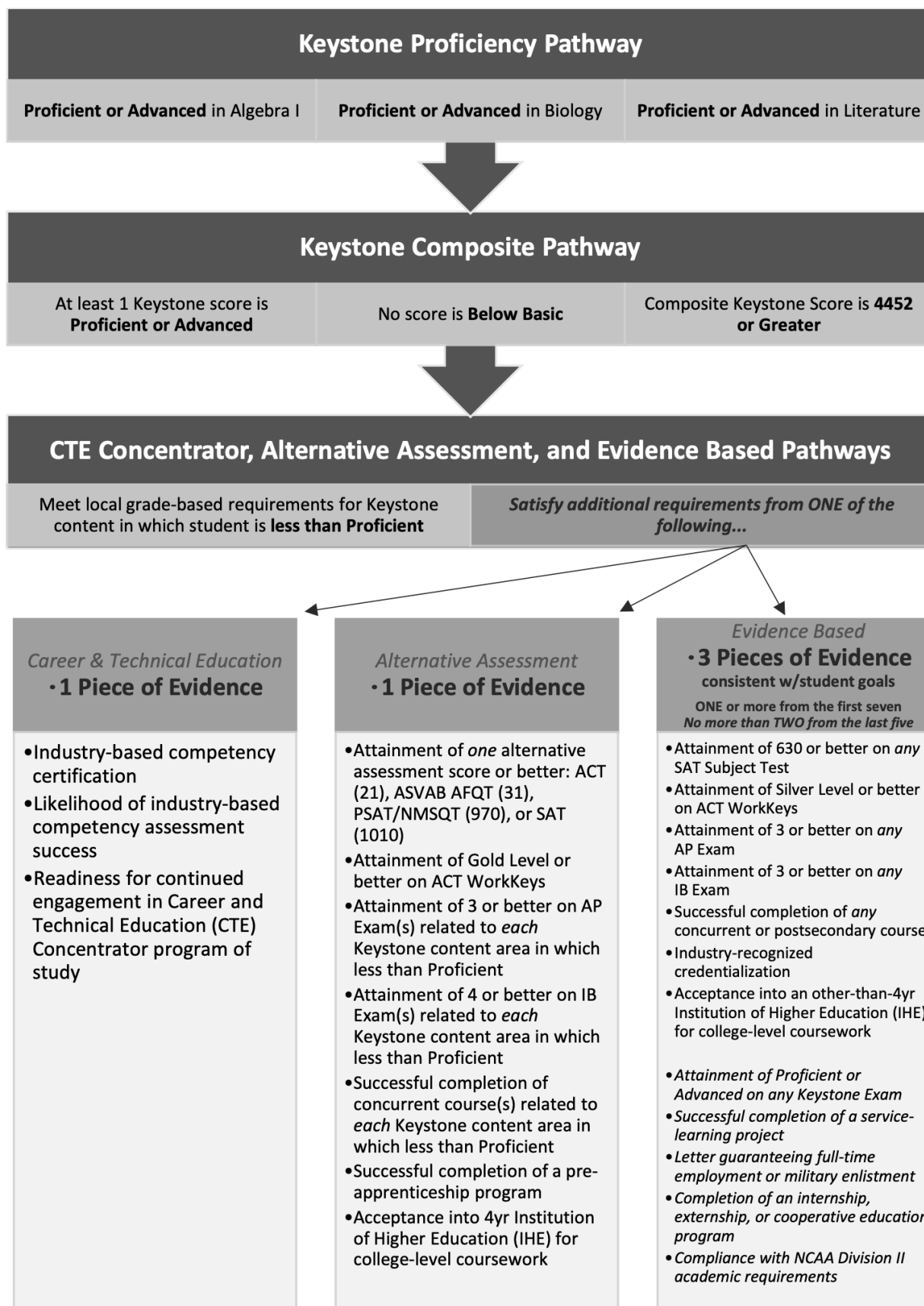
- Attainment of Silver Level on the ACT WorkKeys Assessment
 - Attainment of a 3 on an Advanced Placement test;
 - Acceptance to an accredited nonprofit institution of higher education other than a 4-year institution and evidence of the ability to enroll in college level coursework; (i.e. letter of acceptance, 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, which 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
3. Three credits of Mathematics
4. Three credits of Social Studies
5. Two credits of a Modern Foreign Language

CAREER READINESS INDICATORS

As a measure of Future Ready PA reporting, all Pennsylvania schools are accountable for ensuring every student has access to opportunities to assess interests, build skills, and identify and explore careers aligned to those interests and skills, in order to successfully prepare for and persist in our workforce. Throughout a student's high school years, he/she will participate in several opportunities consisting of activities and lessons aligned to PA Career Education and Work (CEW) standards, as well as the completion of Industry-Based Learning indicators.

Career Education and Work (CEW) Standards Portfolio

In alignment with our goal of ensuring career and college readiness for every student, Carlynton provides our students with experiences in Career Awareness and Preparation (13.1), Career Acquisition (13.2), Career Retention and Advancement (13.3), and Entrepreneurship (13.4). Throughout a student's years at Carlynton, he/she will participate in multiple learning experiences designed to meet one or more of the CEW Standards. The

culmination of these experiences will result in a comprehensive Career Education & Work Standards Portfolio for each student, finalized during a student's junior year.

By the end of 11th grade, students must:

- Have a minimum of eight (8) pieces of evidence (at least two (2) per grade levels 9-11)
- Address each career strand (13.1, 13.2, 13.3, 13.4) with at least one (1) piece of evidence
- Include at least two (2) pieces of evidence that demonstrate implementation of the student's individualized career plan

School sponsored events and classroom lessons, organized and facilitated by teachers and/or school counselors, are designed as a part of our comprehensive career education and work curriculum to aid students in developing these evidence pieces and building their unique portfolios. Students who do not participate in the aligned activities and/or complete the associated assignments will be required to complete additional or alternate assignments to meet the corresponding standard strand.

Industry-Based Learning Indicators

The Industry-Based Learning Indicator is designed to evaluate how students are engaging in work- and classroom-based activities before graduating high school. A student's successful completion of an Industry-Based Learning indicator includes meeting one (1) of the following established criteria:

- Demonstration of a high likelihood of success on the NOCTI assessment administered through A.W. Beattie Career Center as measured by pre-NOCTI scores and/or successful completion of assigned program objectives.
- Earned an approved industry-recognized credential aligned with his/her career path.
- Participated in a school-approved career mentoring experience
- Participated in a substantial service learning experience offered through the school and in partnership with an approved outside agency.
- Completed a work-based learning experience through three (3) job shadow experiences *arranged by the student/family with assistance from the school upon request*. Required pre- and post-shadow documentation should be obtained in the CRC located on the first floor of the high school. Please confer with your school counselor prior to completing a job shadow.

Grading Scale & Quality Point Values

Students enrolled in full year courses will be issued grades at the conclusion of each nine weeks, and will also receive a grade for their midterm exam/project and final exam/project.

Students in semester courses will receive grades at the end of each nine week period and end of course (midterm/semester) grade.

Example calculation of grades are as follows:

S1 - 40% each nine weeks, 20% midterm/final
 S2 - 40% each nine weeks, 20% midterm/final
 Course Grade equals the semester grade (S1 or S2)

Full Year Course	
Student 1	
1st	93
2nd	90
Midterm	85
3rd	92
4th	89
Final	80
S1	90.2
S2	88.4
Course Grade	89.3

Semester - 40% each nine weeks, 20% midterm/final
 Course Grade equals the semester grade (S1 or S2)

Semester - Student 1	
Course Grade - Semester Grade (S1 or S2)	
Semester - 40% each nine weeks, 20% midterm/final	
1st	93
2nd	90
Midterm	85
S1	90.2
Course Grade	90.2

Withdrawal From A Course

A student will be permitted to drop a full year elective course up until the end of the first report period. When a student drops a course up until the end of the report period, a "W" will appear on the report card and the permanent record. Students dropping a course after the first report period will receive a "WF" and the cumulative percentage earned will be used to determine the final percentage average for the course.

A below-average or failing grade, without significant mitigating circumstances, is not sufficient reason for withdrawal from a class.

Special Programs and Options

Please see your school counselor for additional information about any of the special programs or options.

Mrs. Helen Shearer - Grades 7 - 9
helen.Shearer@carlynton.k12.pa.us

Mrs. Stefanie Barnes - Grades 10 - 12
Stefanie.Barnes@carlynton.k12.pa.us

Advanced Placement (AP)

The Advanced Placement (AP) Program is a nationally recognized rigorous curriculum sponsored by the College Board. The AP Program provides an opportunity for high school students to choose college level courses and receive undergraduate college credits or advanced standing if their AP Exam scores qualify. The vast majority of colleges in the United States give credit or provide advanced standing to students whose AP Exam scores are acceptable. Please visit [College Board's AP Credit Policy](#) website to view policies regarding colleges awarding credit for AP Exam scores.

Students enrolled in an AP course have the opportunity to attempt the corresponding AP Exam in May.

English

AP English Language & Composition

AP English Literature & Composition

Mathematics

AP Calculus AB

AP Calculus BC

Social Studies

AP United States Government & Politics

AP United States History

AP Psychology

Science

AP Biology

GIFTED AND TALENTED EDUCATION

In accordance with the PA State Board of Education, Public Law 94-142, Chapter 16, Carlynton High School provides for gifted and talented students through the Gifted and Talented Education (GATE) department. The GATE program provides such students with a variety of enriching activities in an academically and socially supportive environment. Participants are encouraged to take challenging Honors, CHS and AP classes. Students should consult with their counselors and GATE teachers to make the most of the valuable opportunities available to them.

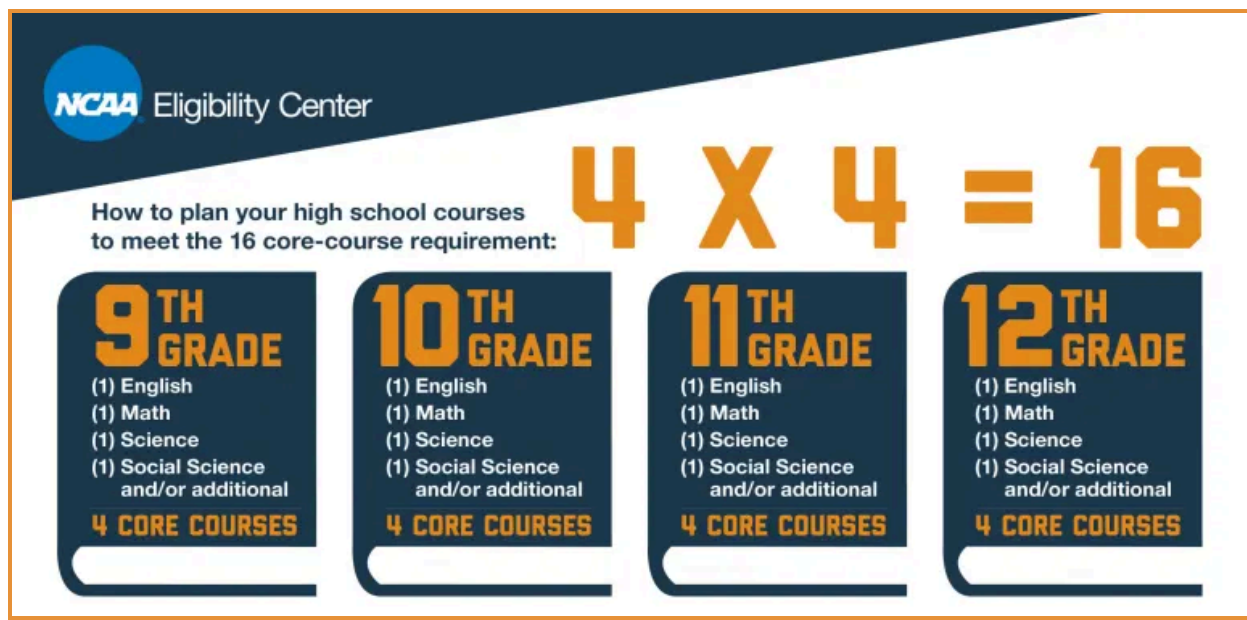
SPECIAL EDUCATION & RELATED SERVICES

The PA Special Education law and regulations, Public Law 94-142, and the federal Individuals with Disabilities Education Act Amendments of 1997, requires school districts to provide a Free Appropriate Public Education (FAPE) to all students with disabilities who are eligible for special education. FAPE means special education and related services are designed to meet the individual educational needs of students through an Individualized Education Program (IEP). Carlynton High School Special Education Department provides direct and supportive services for children who are vision or hearing impaired, emotionally disturbed, learning disabled, speech and/or language impaired, or who have other health impairments. Our goal is to enable each student to participate as fully as possible in the regular instructional environment and to facilitate the transition from school to the world of work or post-secondary education.

NCAA REQUIREMENTS

College-bound student-athletes who desire to compete in NCAA sports at a Division I or II school must meet certain divisionwide academic and amateurism requirements. Students who plan to attend a Division III school must meet the eligibility requirements of the school they plan to attend. In general, for Division I and II initial eligibility, a student must take 16 specific NCAA-approved core course credits as well as meeting specific GPA requirements. It is the student's responsibility to review specific NCAA policies to be sure that the student is taking the correct classes and fulfilling additional requirements. More information can be found on the following pages or at www.eligibilitycenter.org.

Not all classes offered at Carlynton High School or those approved to meet your high school graduation requirements may be used as NCAA core courses.



HIGH SCHOOL TIMELINE

9TH GRADE



- *Start planning now!* Take the right courses and earn the best grades possible.
- Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist.
- Sign up for a free Profile Page at eligibilitycenter.org for information on NCAA requirements.

10TH GRADE

REGISTER



- If you fall behind academically, ask your counselor for help finding approved courses you can take.
- Register for a Profile Page or Certification Account with the NCAA Eligibility Center at eligibilitycenter.org.
- Monitor your Eligibility Center account for next steps.
- At the end of the year, ask your counselor at each high school or program you attended to upload your official transcript to your NCAA Eligibility Center account.

11TH GRADE



- Check with your counselor to make sure you are on track to complete the required number of NCAA-approved courses and graduate on time with your class.
- Take the ACT or SAT and submit your scores to the NCAA Eligibility Center using code 9999.
- Ensure your sports participation information is correct in your Eligibility Center account.
- At the end of the year, ask your counselor at each high school or program you attended to upload your official transcript to your NCAA Eligibility Center account.

12TH GRADE



- Complete your final NCAA-approved core courses as you prepare for graduation.
- Take the ACT or SAT again, if necessary, and submit your scores to the NCAA Eligibility Center using code 9999.
- Request your final amateurism certification beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your NCAA Eligibility Center account at eligibilitycenter.org.
- After you graduate, ask your counselor to upload your final official transcript with proof of graduation to your NCAA Eligibility Center account.
- *Reminder:* Only students on an NCAA Division I or II school's institutional request list will receive a certification.

Multi-Year Academic Planning Worksheet

This worksheet is designed to help students and parents plan course selection over multiple years of high school. Beginning with desired courses during a student's *senior year* (considering possible Career Pathways, post-secondary goals and aspirations, and individual skills and talents) a student can work *backwards* to schedule necessary prerequisite courses and/or course progressions. Alternatively, a student may use the worksheet *sequentially* to enroll in the appropriate courses to meet graduation, NCAA, or other requirements. The high school schedule allows for eight (8) scheduled periods each semester, with a lunch period accounting for the nine (9) period day. Every student must schedule a minimum of seven (6) credits per year, unless administratively approved. Please utilize your resources, including teachers and school counselors for assistance in discussing and planning course selections.

9th grade (Class of 2030)

Requirement Category	Course Number	Course Name	Sem. or Year ?	Course Credits	Total Credits in Category	Total Required Credits for Graduation
English						4.0
Social Studies						3.0
Mathematics						3.0
Science						3.0
Health / PE						1.0
Personal Finance						0.5
Digital Productivity & Data Literacy						0.5
Electives						9.0
Career Portfolio						0.5
Total Credits						24.5

10th grade (Class of 2029)

Requirement Category	Course Number	Course Name	Sem. or Year ?	Course Credits	Total Credits in Category	<i>Total</i> Required Credits
English						4.0
Social Studies						3.0
Mathematics						3.0
Science						3.0
Health / PE						1.0
Personal Finance						0.5
Digital Productivity & Data Literacy						0.5
Electives						9.0
Career Portfolio						0.5
Total Credits						24.5

11th grade (Class of 2028)

Requirement Category	Course Number	Course Name	Sem. or Year ?	Course Credits	Total Credits in Category	<i>Total</i> Required Credits
English						4.0
Social Studies						3.0
Mathematics						3.0
Science						3.0
Health / PE						1.5
Elective						9.5
Elective						
Elective						
Elective						
Total Credits						24.0

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12th grade (Class of 2027)

Requirement Category	Course Number	Course Name	Sem. or Year ?	Course Credits	Total Credits in Category	Total Required Credits for Graduation
English						4.0
Social Studies						3.0
Mathematics						3.0
Science						3.0
Health / PE						1.5
Elective						9.5
Elective						
Elective						
Elective						
Total Credits						24.0

COURSE LIST

BCIT	
Z550	Keyboarding and Office Applications
Z552	Online Learning and Digital Citizenship
Z554	Introduction to Business A
Z556	Introduction to Business B
Z558	Introduction to Entrepreneurship
Z560	Travel and Tourism
Z562	Business Law
Z564	Planning Meetings and Special Events
Z566	Introduction to Marketing
Z568	Introduction to Consumer Services
Z570	Transportation, Distribution and Logistics
Z572	Introduction to Finance
Z574	Personal Finance 1
Z576	Personal Finance 2

Computer/Tech	
Z605	Introduction to Information Technology
Z610	Introduction to Network Systems
Z615	Introduction to Programming
Z617	Fundamental of Computer Systems
Z619	Network Systems Design
Z621	Software Development Tools
Z623	Fundamentals of Programming and Software
Z625	New Applications: Web Development
Z627	Fundamentals of Digital Media

Family and Consumer Sciences	
Z660	Introduction to Family Consumer Science
Z663	Adult Living
Z666	Introduction to Social Work
Z669	Introduction to Promoting Human Health

English	
Z130	English 9
Z135	Academic English 9
Z140	Scholars English 9
Z129	English 9 Foundations
Z145	English 10
Z150	Academic English 10
Z155	Scholars English 10
Z144	English 10 Foundations
Z160	English 11
Z165	Academic English 11
Z159	English 11 Foundations
Z175	English 12
Z180	English 12 British Literature
Z174	English 12 Foundations
Z170	AP Language and Composition
Z185	AP Literature and Composition
Z190	Public Speaking and Debate
Z195	Strategies for Academic Success
Z199	Leadership and Career Development

World Languages	
Z710	French 1
Z712	French 2
Z714	French 3
Z716	French 4
Z718	German 1
Z720	German 2
Z722	Spanish 1
Z724	Spanish 2
Z726	Spanish 3
Z728	Spanish 4
Z730	Latin 1
Z732	Latin 2
Z734	Mandarin Chinese 1
Z736	Mandarin Chinese 2

Mathematics	
Z215	Algebra I
Z220	Geometry
Z225	Geometry Scholars
Z230	Algebra 2
Z235	Algebra 2 Scholars
Z240	Statistics
Z245	Advanced Placement Calculus AB
Z250	Algebra 3
Z255	Trigonometry
Z260	PreCalculus/Trigonometry

Physical Education	
Z810	Health
Z816	Physical Education 9
Z818	Physical Education 10
Z820	Physical Education 11
Z822	Physical Education 12
Z825	Introduction to Medical Careers
Z827	Introduction to Health Careers
Z829	Introduction to Nursing Careers
Z831	Introduction to Human Growth and Development
Z833	Introduction to Therapy Based Careers

Science	
Z310	Biology
Z315	Biology Concepts
Z320	Biology 9 Scholars
Z325	AP/CHS Biology
Z330	Human Anatomy and Physiology
Z335	Honors Human Anatomy
Z340	CHS Chemistry
Z345	Chemistry
Z350	CIS Chemistry
Z355	Conceptual Chemistry
Z365	Environmental Science
Z370	Astronomy
Z375	Physics

Social Studies	
Z405	American Cultures 1
Z410	American Cultures 2
Z415	American Government and the Economics
Z420	Honors American Government and Economics
Z425	Sociology
Z430	Introduction to Psychology
Z435	Psychology 2: Abnormal Psychology
Z440	Advanced Placement World History Modern
Z445	Advanced Placement United States History
Z450	Advanced Placement and CHS United States
Z455	Security and Protective Services

Art	
Z500	Digital Photography
Z502	Digital Art Techniques

ENGLISH DEPARTMENT

ENGLISH 9

Z130

1.0 CREDIT

English 9 interweaves writing, and reading, so that students can relate continuously to what they have already learned while broadening their understanding of literature and the writing process. Students will become adept at recognizing the different genres of literature and applying various literary techniques. Students will begin to use writing as an analytical tool. Students will become proficient with standard grammar and usage and will be able to compose without mechanical errors. The research process will be reviewed and strengthened as it relates to their chosen pathway.

SCHOLARS ENGLISH 9

Z140

1.0 CREDIT

Scholars English 9 offers an in-depth analysis of literature, a comprehensive review of grammar and usage, and a rigorous application of the writing process. The material is intended to provide students an introduction to college-level scholarship. Students will become adept at recognizing the different genres of literature and applying various literary techniques. They will begin to use writing as an analytical tool. Students will become proficient with standard grammar and will be able to compose without mechanical errors. The research process will be reviewed and strengthened.

ENGLISH 10**Z145****1.0 CREDIT**

This course is designed to reinforce students' appreciation of numerous literary genres. Speaking, discussion, and listening skills will be enhanced while exploring various literary selections, along with poetry. Emphasis also will be placed on the application of standard grammar, mechanics, and vocabulary development. The research process will be reviewed and strengthened. Vocabulary skills will continue to be reinforced.

SCHOLARS ENGLISH 10**Z155****1.0 CREDIT**

The objective of Scholars English 10 is to refine reading comprehension skills, writing skills, and analytical skills encouraging students to reach a proficiency in all areas, moving at a faster pace and at a more in-depth level than English 10. Students will be exploring the particulars of the writing process, delving into insightful concepts in literature, and reviewing grammatical and mechanical protocol. In addition, students will compile a research paper within the scope of the Seneca Valley School District curriculum, showcasing the ability to identify, comprehend, apply, analyze, and evaluate research in order to produce an argumentative position paper. Students will develop critical thinking, reading, writing, and vocabulary skills through a variety of assignments.

ENGLISH 11 Concepts of Literature**Z160****1.0 CREDIT**

This full year course is designed for 11th-grade students preparing to enter the workforce after high school. Although students will still be exposed to a range of literary texts, the course focuses on reading, writing, speaking, listening, and research skills necessary for success in a vocational or professional environment. Students will engage in practical activities that align with workplace communication needs, and will build proficiency in analyzing texts, conducting research, and presenting information clearly and effectively in both written and spoken formats. This course emphasizes critical thinking and real-world application to ensure students are ready for career success after graduation.

ENGLISH 11 Survey of American Literature**Z165****1.0 CREDIT**

This full year course is designed to develop critical thinking and communication skills through a comprehensive study of literature, writing, and research. Students will explore a range of texts, including classic and contemporary works, to enhance their reading comprehension and analytical abilities. Emphasis will be placed on writing, with a focus on argumentative, narrative, and expository essays. Students will also strengthen their speaking and listening skills through class discussions, presentations, and collaborative projects. Additionally, the course will incorporate research techniques, teaching students how to gather, evaluate, and integrate sources to support their writing. Aligned with Pennsylvania state standards, this course will prepare students for college-level reading, writing, and communication tasks.

Advanced Placement Language and Composition Z170**1.0 CREDIT**

This is a college-level course that focuses on the semantic, structural, and rhetorical aspects of language. Included in this course are various types of narrative and essay forms and other examples of expository writing, as well as the analysis of

structure, diction, and sentence patterns in literary works. Students have the option of taking the AP English examination that could result in attaining college credit. Students will begin work in the summer to complete the course work. An approved professional must proctor specific assignments on campus or off-site. The proctor agreement must be completed throughout the course.

ENGLISH 12

Z175

1.0 CREDIT

This full year course is designed to refine students' skills in reading, writing, speaking, listening, and research in preparation for post-secondary education and professional life. Students will engage with a variety of texts, including literature, non-fiction, and multimedia. Writing assignments will focus on developing clear, organized papers, with an emphasis on text, citation, and revision. Collaborative projects will strengthen speaking and listening abilities, while research skills will be honed through completion of a research paper. By the end of the course, students will be prepared to communicate effectively and critically across multiple formats.

AP LITERATURE AND COMPOSITION

Z185

1.0 CREDIT

AP Literature is a college level course which engages students in the careful reading and critical analysis of imaginative literature. Through close reading of selected literary works of recognized merit, students will deepen their understanding and enhance their pleasure of literature. Writing assignments will focus on critical analysis of literature and may include expository, analytical and argumentative essays. These essays will be produced using advanced vocabulary, syntax and organization as well as insight into the author, genre and historical period which produced the work. Students will have the option, at their own expense, of taking the Advanced Placement Literature Exam which may result in the attainment of 3-6 college credits. The student will also complete all aspects of the graduation project. Upon the completion of the course and project, the student will be prepared for the type of analytical and evaluative reading and writing required of college freshmen.

PUBLIC SPEAKING AND DEBATE

Z190

.5 CREDIT

Public Speaking and Debate (½ Credit) is a skills-based course designed to build students' confidence, communication effectiveness, and critical thinking through structured speaking and argumentation activities. Students will develop and deliver speeches for a variety of purposes and audiences, practice persuasive and informative speaking techniques, and engage in formal and informal debates. Emphasis is placed on research, organization, evidence-based reasoning, listening skills, and constructive feedback, while also addressing ethical communication and civic discourse. This course prepares students for academic success, leadership opportunities, and effective participation in school, career, and community settings.

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 the American History sequence, as well as the American Government and the Economy course, in order to graduate. AP U.S.

History and AP U.S. Government & Politics are offered to students meeting the prerequisites and will satisfy the two graduation requirements. 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. Students should discuss their intentions with their parents/guardians, guidance counselor, and teachers prior to course selection.

American History 1

Z405**1.0 CREDIT**

This course begins with the settlement of North America and moves through the Reconstruction period after the Civil War. It includes key people, military conflicts, political and social movements, domestic and foreign policy, and the political and physical geography of the United States. In addition to exploring the historical, geographical, and cultural themes that shape this time period, a special emphasis will be placed on Civic instruction and the personal experience of Ryan Gloyer.

AMERICAN HISTORY 2

Z410**1.0 CREDIT**

Students will learn about the events in United States history beginning with the country in the 1920s and a Great Depression. The course will continue to the Civil Rights Movement of the 1960s. The students will explore historical events which determined the cultural development and growth of the United States. Their study will include history, geography, civics, and economics. Students will be involved in various instructional activities which will focus on map skills, research, and communication skills. These activities will help them to gain a better understanding of the social, political, and economic challenges our nation faces today.

AP UNITED STATES HISTORY

Z445**1.0 CREDIT**

A college-level course for qualified juniors and seniors covering the history of the United States from colonial times to the present; research, comprehension, and communication are emphasized. The course prepares students for intermediate and advanced college courses by making demands equal to those of a full-year level-one college course. The course may enable a student to earn college credits. It may not be accepted at all institutions without a minimum score of 3 on the national Advanced Placement Exam. The student should make the determination of whether he or she is applying to a college that accepts completion or examination credit.

AMERICAN GOVERNMENT AND ECONOMICS

Z415**1.0 CREDIT**

This full year course will provide the student with fundamental knowledge regarding the American political and economic system. The primary objective is to help each individual make intelligent decisions as a citizen and consumer in today's society. Skills related to this objective will be stressed, along with factual knowledge and an emphasis on current topics. Problem solving activities will be an integral part of this course.

SCHOLARS AMERICAN GOVERNMENT AND ECONOMICS Z420 1.0 CREDIT

Scholars American Government and the Economy is a full year 4.5% weighted course, which satisfies the graduation requirement for this subject. Scholars American Government & the Economy is designed to meet the state standards, while providing greater depth to the course material. The content of the course will focus on the American government and the fundamentals of economics. The curriculum will be supported by current political and economic topics as they relate to class content. The philosophy and operations guiding the U.S. political and economic system will be presented to aid students in making useful decisions impacting society today. Development of written and verbal communication skills will be emphasized.

SOCIOLOGY Z425 0.5 CREDIT

Have you ever been curious as to why individuals and societies have different experiences and cultures? This is one of the many questions that sociologists ask as they study people and societies, which is what Sociology is. In Sociology, we will be examining, but are not limited to, various cultures and their social norms, social interactions, examination of deviance and crime, collective behavior, and social theories all the while developing a sociological imagination. Students will be applying the concepts of Sociology to a variety of selected issues in our society through a series of individual assessments.

INTRODUCTION TO PSYCHOLOGY Z430 0.5 CREDIT

Introduction to Psychology is designed to examine the complex nature of human behavior and relate it back to the most significant subject matter, you! The major areas of study will include, but are not limited to, methods in psychology, biopsychology, sensation and perception, learning principles, development, personality and clinical psychology. Throughout each of these units, we will explore characteristics of human flourishing, life satisfaction and mental well-being. By doing this, students will learn evidence-based skills and strategies they may put into real-world practice to help them thrive.

PSYCHOLOGY II: ABNORMAL PSYCHOLOGY Z435 0.5 CREDIT

This course is designed to follow Introduction to Psychology. Abnormal Psychology explores the study of psychological disorders, including their symptoms, causes, and treatments, through a scientific and applied lens. Students examine major categories of mental illness, such as anxiety, mood, personality, and psychotic disorders, while considering biological, psychological, and sociocultural influences on behavior. The course emphasizes critical thinking, ethical considerations, and the impact of mental health on individuals and society, helping students develop a deeper understanding of diagnosis, prevention, and evidence-based treatment approaches.

ADVANCED PLACEMENT WORLD HISTORY: MODERN Z440 1.0 CREDIT

This is a college-level course for qualified sophomores which thematically explores the history and evolution of civilization c. 1200 C.E.—Present. Themes will focus on: social interactions and organization; politics and governance; interaction between humans and the environment; cultural developments; economic systems; and technology and innovation. The course will place a profound emphasis on reading, writing, and argument building. The course may enable students to

earn college credit; it may not be accepted at all institutions without a minimum score of 3 or higher on the Advanced Placement Exam. Students should make the determination of whether they are applying to a college that accepts examination credit.

ADVANCED PLACEMENT US HISTORY

Z445

1.0 CREDIT

A college-level course for qualified juniors and seniors covering the history of the United States from colonial times to the present; research, comprehension, and communication are emphasized. The course prepares students for intermediate and advanced college courses by making demands equal to those of a full-year level-one college course. The course may enable a student to earn college credits. It may not be accepted at all institutions without a minimum score of 3 on the national Advanced Placement Exam. The student should make the determination of whether he or she is applying to a college that accepts completion or examination credit.

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 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.

ALGEBRA I

Z215

1.0 CREDIT

This course is the study of basic algebraic structure of the real number system in a real-life problem solving setting. The major topics studied are: variables, expressions, properties, exponents, equations, inequalities, polynomials and graphing. Emphasis will be placed on both the understanding of concepts and the acquisition of skills. This course is designed as a foundation for the study of future mathematics and science courses and an application of concepts and skills.

GEOMETRY

Z220

1.0 CREDIT

Geometry is an academically challenging course which includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts, as well as real-world problem situations. Significant emphasis is placed on algebra which is integrated throughout all units. The course is designed to focus on the key topics of geometry including inductive reasoning, deductive reasoning, perpendicular and parallel lines, triangles, quadrilaterals, similarity, congruency, right triangles, circles, surface area, and volume.

GEOMETRY SCHOLARS**Z225****1.0 CREDIT**

Honors Geometry is a fast-paced, demanding academic course specifically designed for highly motivated students who enjoy a challenge. This course develops the structure of geometry, logical thinking, precise language, geometric notation, and proofs. The development of these concepts employs both inductive and deductive reasoning, while incorporating required algebra skills. The goals of this course are to develop student proficiency with geometric concepts. The course is designed to focus on the key topics of geometry including inductive reasoning, deductive reasoning and proofs, perpendicular and parallel lines, triangles, quadrilaterals, similarity, congruency, right triangles, circles, surface area, and volume.

ALGEBRA II**Z230****1.0 CREDIT**

Algebra 2 is a course which concentrates on quadratic, polynomial, radical, and exponential functions and graphs. Irrational numbers are studied and complex numbers are also introduced. In this course, there is a strong emphasis on algebraic application and problem solving. A solid foundation in Algebra 1 is essential for placement in this course. The TI-84 Plus graphing calculator will be used in class.

ALGEBRA II SCHOLARS**Z235****1.0 CREDIT**

Scholars Algebra 2 is a rigorous course for motivated students who have excelled in both Geometry and Algebra 1. This course concentrates on quadratic, polynomial, radical, exponential and logarithmic functions and graphs. Irrational numbers are studied and complex numbers are also introduced. In this course, there is a strong emphasis on algebraic application and problem solving with team collaboration, therefore a solid foundation in Algebra 1 is essential for placement in this course. The TI-84 Plus graphing calculator will be used in class.

STATISTICS**Z240****1.0 CREDIT**

This course is a one semester course designed for students who desire an option to Pre-calculus as a fourth year mathematics course. Students will learn the fundamentals of probability, methods of describing and displaying numerical and categorical data, and investigation of random variables and their distributions.

ADVANCED PLACEMENT CALCULUS AB**Z245****1.0 CREDIT**

This is a first year course in calculus sequence intended for the academically accelerated student. AP Calculus AB is equivalent to a first semester calculus course at most colleges and universities. Topics include functions and their graphs, limits, the derivative, derivative applications, differentiation of exponential and logarithmic functions, integration and applications of the integral. A graphing calculator may be helpful for this course and will be used to help students solve problems, interpret results, and support conclusions in their coursework in Edgenuity. As we explore each topic, students will be required to analyze each one analytically, graphically, and numerically. Students are encouraged to take the Advanced Placement Exam given in May.

ALGEBRA 3**Z250****1.0 CREDIT**

This course is designed as a third or fourth year option to Pre-calculus for students completing Algebra 2 in their sophomore or junior year. Topics covered include factoring, binomial expansion, solving rational equations, solving radical

equations, linear regression, quadratic functions, exponential functions, logarithmic functions, polynomial operations, and polynomial functions of a higher degree. Recommended to be taken in Junior year for Keystone Exam Requirements.

TRIGONOMETRY

Z255

1.0 CREDIT

This Trigonometry course is designed for students who have completed Geometry or Algebra 2 and seek an in-depth study of trigonometric concepts who do not plan on progressing to the Honors Pre-Calculus course. Topics include right-triangle trigonometry, angle and radian measurement, trigonometric equations, and real-world applications. Students will also explore trigonometric identities, proofs, and graphing techniques for sine, cosine, and tangent functions, building a solid foundation in trigonometric principles for practical and mathematical applications.

PRECALCULUS/TRIGONOMETRY

Z260

1.0 CREDIT

This course is for the serious-minded student who wants to better their preparation for Calculus and other higher mathematics. It consists of an extension of the skills of Algebra 2 with a major emphasis on functions: linear, polynomial, exponential, and trigonometric. Ten to twelve weeks of the course are devoted to a thorough study of trigonometry. A graphics calculator will be helpful for some of the content in the course.

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.

BIOLOGY

Z310

1.0 CREDIT

This high school course covers an in-depth view of biological science concepts. A brief section of biochemistry leads into an overview of ecology and the interactions of the environment and populations of living organisms. A comprehensive section on cellular biology and genetics exposes students to biology on a small scale that leads to the theory of evolution and the history of life on earth. The remainder of the course explores the complexity and variety of life on earth with sections devoted to simple organisms, plants, invertebrates and vertebrates as well as human biology.

BIOLOGY 9 SCHOLARS**Z320****1.0 CREDIT**

The core biology curriculum is designed to present an examination of the living world and related societal issues. Emphasis is placed on the scientific process, cells and cell processes, and the continuity and unity of life, including lab simulations. The course will include the characteristics and organization of life from the biosphere to the atom. This includes DNA, biochemistry, genetics, cell division, homeostasis and related processes. Honors Biology is a fast-paced, rigorous course in which the student is expected to be highly motivated to achieve at an honors level. Honors Biology investigates biological organization starting at a molecular level and culminating with living organisms and their inter-relationships. This course differs from Biology in depth, pace, and lab simulations. Note: Students receiving credit for Honors Biology and may not take Biology for credit.

AP/CHS BIOLOGY**Z325****1.0 CREDIT**

Advanced Placement Biology is a college-level course designed to be the equivalent of a two-semester college introductory biology course and intended for students wanting to pursue further study in the biological sciences or research. Emphasis of the course includes chemistry of life, cells, cellular energetics, heredity, molecular genetics, evolutionary biology, diversity of organisms, structure and function of plants and animals, and ecology. Due to the large amount of content and fast pace within this course, students must possess a high degree of independence and self-motivation. In addition, students have the option of taking the Advanced Placement Biology examination for up to three college credits.

INTRO TO ANATOMY**Z330****1.0 CREDIT**

This semester course provides an introductory level study of the human body, its structure and function. The main focus of this course is a survey of each body system, including cells, tissues, and organs, and the homeostatic mechanisms of the body. This course would be especially useful for students whose ultimate goal is to enter the health care profession by providing a basic overview of vocabulary and purpose for body systems and parts.

HONORS HUMAN ANATOMY**Z335****0.5 CREDIT**

This semester course will examine the structures, functions, and interdependence of the human body systems. The course will cover the anatomy of the body (positions, planes, regions) and then move into the musculoskeletal system, nervous and sensory systems, cardiovascular system and the respiratory system. The course will conclude with a brief overview of the integumentary, lymphatic and immune systems. This course is recommended for those pursuing a career in the health science field.

SCIENTIFIC DISCOVERY AND DEVELOPMENT**Z340****0.5 CREDIT**

This course focuses on "laboratory careers", where students can learn about multiple jobs in laboratory science. Each career is described with specific details pertaining to what professionals do for the career. For each career, students learn what is necessary in the areas of education and credentialing and will gain an understanding of the job outlook and salaries of these various professions. Students will also learn the science background related to many of these careers, as well as the major breakthroughs that have brought us to where we are today in laboratory science.

CHEMISTRY**Z345****1.0 CREDIT**

This year-long high school course covers the foundation for the composition, structure, and reactions of matter. It addresses scientific measurements, the general properties of matter, and the structure of the atoms. Also covered are the periodic table, types of bonds, and chemical equations. Other topics involve introducing the states of matter, chemical reactions, the energy involved in chemical changes as well as a brief overview of nuclear chemistry. This course requires students to use math in calculations and conversions.

CHS CHEMISTRY**Z350****1.0 CREDIT**

This year-long high school science course covers the foundation for the composition, structure, and reactions of matter. It addresses scientific measurements, the general properties of matter, structure of the atoms, the periodic table, types of bonds, and chemical equations. Other topics involve introducing the states of matter, chemical reactions, the energy involved in chemical changes as well as a brief overview of nuclear chemistry. This course requires students to have a solid foundation in math as calculations and conversions are basic components of chemistry. This course is designed to progress at a more rapid pace than the regular chemistry course and covers additional topics. Through a partnership with La Roche University, students may opt to pay and pursue a 3 credit CHEM 1001 course: General Chemistry 1 and 1 credit CHEM 1003 course: General Chemistry 1 Lab. For more information about College in High School Courses (CHS), view the CHS Registration handout on the program menu or on the guidance webpage.

PRINCIPLES OF CHEMISTRY I**Z355****0.5 CREDIT**

This one-semester course covers the foundation for the composition and structure of matter. Topics will include scientific method, measurement, matter, solids, liquids and gases, atoms, elements, and the periodic table. Lab simulations are used to enhance this course.

ADVANCED TOPICS IN CHEMISTRY**Z360****1.0 CREDIT**

This one semester course covers topics in chemistry such as thermodynamics, kinetics, equilibrium, acids and bases, electrochemistry and nuclear chemistry. These topics are not normally discussed in a first year chemistry course. Lab simulations and mathematical calculations are an integral part of this course.

ENVIRONMENTAL SCIENCE**Z365****0.5 CREDIT**

This semester course encompasses several major units which cover many aspects of environmental science including The Water; Energy and Resources; and Societies and Policy. Environmental Science contains Global Connections lessons which include unique activities that merge lesson material with real world issues pertaining to the environment. This course focuses on the impact human activity has had on ecosystems. We will also look at the role humans have had in the ecological spheres (studied in Ecology) and the impact these changes have had on the world.

ASTRONOMY**Z370****0.5 CREDIT**

The course of Astronomy is designed to give the high school student an introduction and appreciation for the universe beyond the earth. Emphasis is placed on atmospheric science in the first half of the course through lessons on weather and climate. The second half focuses on space science, exposing students to the interactions of the earth, moon, and sun and an overview of our solar system and the universe beyond. This is an elective science course.

PHYSICS**Z375****1.0 CREDIT**

This online Physics course introduces students to the fundamental principles that govern motion, energy, forces, waves, electricity, and magnetism. Through interactive lessons, virtual labs, simulations, and real-world problem-solving, students explore how physical laws explain everyday phenomena and modern technology. Emphasis is placed on scientific reasoning, data analysis, mathematical modeling, and critical thinking. Students will engage in asynchronous coursework with structured deadlines, collaborative discussions, and hands-on investigations using digital tools. By the end of the course, students will be able to apply core physics concepts, interpret experimental data, and communicate scientific ideas effectively in an online learning environment.

**PHYSICAL
EDUCATION &
WELLNESS****PHYSICAL EDUCATION 9****Z816****0.5 CREDIT**

This course is a combination of all previous Cyber PE courses. It is a blend of online work and physical activity. Approximately 20 hours of online work will emphasize developing and maintaining cardiorespiratory, muscular strength/endurance and flexibility fitness and body composition, fitness safety, skills for lifelong fitness and success in athletics, and designing a personalized fitness plan. The physical activity requirement will make up 50% of the student's grade. This course will be offered during the Fall and Spring semesters and all student options will remain the same as previous years, such as SV athletics, X-cel Gymnastics, Marching band/resistance requirement, or an approved outside fitness provider.

PHYSICAL EDUCATION 10**Z818****0.5 CREDIT**

This course is a combination of all previous Cyber PE courses. It is a blend of online work and physical activity. Approximately 20 hours of online work will emphasize developing and maintaining cardiorespiratory, muscular strength/endurance and flexibility fitness and body composition, fitness safety, skills for lifelong fitness and success in athletics, and designing a personalized fitness plan. The physical activity requirement will make up 50% of the student's grade. This course will be offered during the Fall and Spring semesters and all student options will remain the same as previous years, such as SV athletics, Xcel Gymnastics, Marching band/resistance requirement, or an approved outside fitness provider.

PHYSICAL EDUCATION 11**Z820****0.5 CREDIT**

This course is a combination of all previous Cyber PE courses. It is a blend of online work and physical activity. Approximately 20 hours of online work will emphasize developing and maintaining cardiorespiratory, muscular strength/endurance and flexibility fitness and body composition, fitness safety, skills for lifelong fitness and success in athletics, and designing a personalized fitness plan. The physical activity requirement will make up 50% of the student's grade. This course will be offered during the Fall & Spring semesters and all student options will remain the same as previous years, such as SV athletics, Xcel Gymnastics, Marching band/resistance requirement, or an approved outside fitness provider.

PHYSICAL EDUCATION 12**Z822****0.5 CREDIT**

This course is a combination of all previous Cyber PE courses. It is a blend of online work and physical activity. Approximately 20 hours of online work will emphasize developing and maintaining cardiorespiratory, muscular strength/endurance and flexibility fitness and body composition, fitness safety, skills for lifelong fitness and success in athletics, and designing a personalized fitness plan. The physical activity requirement will make up 50% of the student's grade. This course will be offered during the Fall & Spring semesters and all student options will remain the same as previous years, such as SV athletics, Xcel Gymnastics, Marching band/resistance requirement, or an approved outside fitness provider.

HEALTH**Z810****0.5 CREDIT**

Health education provides students with practical knowledge that will enable them to maintain wellness throughout their lives. The course emphasizes intelligent decision-making and the need to take responsibility for ones' own health. Units studied are based on areas of concern to students in particular and the nation in general. Topics include, but are not limited to general wellness, mental health/disorders, nutrition, alcohol and drugs, reproductive health, and health-related environmental issues.

INTRODUCTION TO MEDICAL CAREERS**Z825****0.5 CREDIT**

This course is an overview of careers in the medical degree field and the overriding principles central to those professions. Students will have several opportunities to learn about the expanding scope of professional practice for various medical degrees. When students complete the course, they will be able to discuss the potential career choices and have an understanding of basic concepts that apply to these different choices. These career options typically require four or more years of post-secondary education. Careers discussed will include medical doctors, pharmacists, dentists, veterinarians and other doctors.

INTRODUCTION TO HEALTHCARE CAREERS**Z827****0.5 CREDIT**

This course is an overview of careers in the healthcare field that require either a certification or an Associate's degree, and the overriding principles central to those professions. Students will have several opportunities to learn about the expanding scope of professional practice for various medical and personal care certifications. When students complete the course, they will be able to discuss the potential career choices and have an understanding of basic concepts that apply to these different choices. These career options typically require less than four years of post-secondary education/training.

INTRODUCTION TO NURSING CAREERS**Z829****0.5 CREDIT**

This course provides students opportunities to compare and contrast the various academic and clinical training pathways to an entry-level position in nursing. Students will also explore the growing number of opportunities for professional advancement given the proper preparation and experience. Students will have several opportunities to learn about the expanding scope of professional practice for registered nurses and better understand the important changes proposed in the education and ongoing professional development of nurses.

INTRO TO HUMAN GROWTH AND DEVELOPMENT**Z831****0.5 CREDIT**

This course is for students who have a desire to help others, but are unsure of a specific path. This could include teachers, medical careers, counseling, etc. We focus on human growth and development over a life span. This is important as it gives a student a background in human growth and development from birth, through childhood, into

adulthood, and through death and grief. It gives the student perspective and highlights where people in the caring professions are most needed.

INTRO TO THERAPY BASED CAREERS

Z833

0.5 CREDIT

This course focuses on careers that help restore and maintain mobility and physical and mental health, such as physical therapy, occupational therapy, athletic training, dietetics, art therapy, neurotherapy and registered dental hygiene. Each career is explored in depth examining typical job duties, education requirements and working conditions. Key concepts and specific skill sets are introduced in the lessons, allowing students to apply what they have learned to therapy-based careers.

WORLD LANGUAGES DEPARTMENT

FRENCH 1

Z710

1.0 CREDIT

This course is designed for students who are beginning their language study. It introduces them to the basic language skills of listening, speaking, reading and writing in the context of a variety of authentic themes and topics. Students will make connections between their culture and the target cultures. At the end of this course, placement into the following level is based upon teacher approval and a grade of 70% or better.

FRENCH 2

Z712

1.0 CREDIT

This course builds upon the skills introduced in French 1. It encourages students to communicate through a wider variety of listening, speaking, reading, and writing activities. New grammar structures and topical vocabulary are introduced that build upon prior knowledge and skills. Throughout, students are encouraged to compare and contrast their own culture with target cultures.

FRENCH 3

Z714

1.0 CREDIT

This course builds upon the content of French 1 and 2, and provides continued practice in speaking, listening, reading, and writing. New grammar structures and topical vocabulary are introduced. More explicit emphasis is placed on improving pronunciation and intonation. Knowledge and understanding of the people and their cultures continues to be a critical part of the experience.

FRENCH 4

Z716

1.0 CREDIT

This course includes the review and practice of language skills from the preceding level while also introducing new and more complex linguistic structures. The focus is increasingly on assisting students to communicate more naturally in the target language. A conversational approach to language learning is stressed, with additional emphasis now placed upon reading and writing. Cultural connections are examined through meaningful classroom discussions on a variety of AP-oriented themes and topics (Global Challenges, Science and Technology, Beauty and Aesthetics, Personal and Public

Identities, Families and Communities, and Contemporary Life). Preparing students for success in the AP level course to come is a fundamental goal of this course.

GERMAN 1

Z718

1.0 CREDIT

This course is designed for students who are beginning their language study. They are introduced to the basic language skills of listening, speaking, reading and writing. Students will make connections between their culture and the target cultures. At the end of the course, placement into the following level is based upon teacher approval and a grade of 70% or better. Note: Grade 7 does not count towards NCAA credit.

GERMAN 2

Z720

1.0 CREDIT

This course builds upon the skills introduced in German 1. It encourages students to communicate through a wider variety of listening, speaking, reading, and writing activities. New grammar structures and topical vocabulary are introduced that build upon prior knowledge and skills. Throughout, students are encouraged to compare and contrast their own culture with target cultures.

SPANISH 1

Z722

1.0 CREDIT

Created to be a two-semester course for high school students that allows for an individualized development of the Spanish language through the study of the core grammatical structures and the vocabulary necessary for elementary communication. Spanish I also provides students with an introduction into the traditions and customs of Spanish-speaking people across the world.

SPANISH 2

Z724

1.0 CREDIT

In level 2 students continue to develop language skills in all four areas of communication: listening, reading, speaking and writing. At this level students expand their vocabulary knowledge and study more advanced grammar structures. Students will comprehend language at an increased level of complexity and speed. In addition, students develop an acceptance of diversity by exploring specific elements of Latin-American culture.

SPANISH 3

Z726

1.0 CREDIT

Students enrolling in Spanish 3 will continue to develop their skills in listening, reading, and writing Spanish. Students will study topics such as technology, climate and nature, city, and the subjunctive mood of verbs. In Spanish III, students can expect to be challenged with advanced grammatical concepts and will be introduced to podcasts to provide and obtain information, express feelings and emotions, and exchange opinions.

SPANISH 4

Z728

1.0 CREDIT

Students enrolling in Spanish 4 will continue to develop all four language skills, while working at a faster pace at a more in-depth level. They will apply their targeted language ability through increased readings of literature, increased exposure to authentic spoken language, and application of more advanced grammatical concepts, in addition to the usual cultural information, where emphasis is placed on the student of selected Latin American countries.

LATIN 1**Z730****1.0 CREDIT**

Students begin their introduction to Latin with fundamental building blocks in four key areas including listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar which represents an ideal blend of language learning pedagogy and online learning. Each unit also includes cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

LATIN 2**Z732****1.0 CREDIT**

Latin 2 is also a readings-based course, consisting of 180 lesson days formatted in an intuitive calendar view, which represents an ideal blend of language learning pedagogy and online learning. Units consist of vocabulary themes and numerous interactive games reinforcing grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering significant aspects of Roman culture or their modern-day manifestations and assessments.

MANDARIN CHINESE 1**Z734****1.0 CREDIT**

This is a beginning level course that will introduce the student to a variety of areas of Mandarin Chinese (simplified). In this course, the student will learn listening, speaking, reading, and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. The course is aligned to national Foreign Language standards. Learning activities in each unit are focused upon a specific theme including the following: Introduction to Chinese Language, Greetings, Numbers, My Family and School Life. This is an independent course. Please note that instruction is delivered by a non-Seneca Valley PA certified teacher. Seneca Valley staff cannot tutor or assist students with the content of the course.

MANDARIN CHINESE 2**Z736****1.0 CREDIT**

This course is a continuation of a beginning level course that will introduce the student to a variety of areas of language learning. In this course, the student will learn listening, speaking, reading and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Throughout the five units of material (daily routine, animals, hobbies, the body, and descriptions), students learn to express themselves using an ever increasing vocabulary, present tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and their culture, people, geographical locations and histories. The course is aligned to the national Foreign Language standards. Learning activities in each unit are focused upon a specific theme including the following: Students talking about what they like to do in their free time, Their daily activities using a wide range of vocabulary and reflexive verbs, Animals and things animals do, The parts of their body and their function, People and Culture. This is an independent course. Please note that instruction is delivered by a non-Seneca Valley PA certified teacher. Seneca Valley staff cannot tutor or assist students with the content of the course.

ART DEPARTMENT

DIGITAL PHOTOGRAPHY 1

Z500

0.5 CREDIT

Students will learn how to use their phones or devices to apply digital photo techniques in the online studio setting as well as "in the field." Students will create a portfolio of images and explore editing through photo manipulation software.

VISUAL ARTS TECHNIQUES

Z502

0.5 CREDIT

Visual Art Techniques 1: This 9-12 project-based semester course lets cyber students explore and engage in hands-on art-making experiences without being a hybrid student. This new course consists of four project-based learning opportunities and engaging with art criticism and appreciation.

FAMILY AND CONSUMER SCIENCES DEPARTMENT

INTRO TO FAMILY CONSUMER SCIENCES

Z660

0.5 CREDIT

This is an introductory class for the area of Family and Consumer Sciences. By taking this course, students will gain basic knowledge and skills in the areas of food and nutrition, family relationships, clothing, and consumerism. The course is designed to be relevant to the students' present-day life and a foundation for future courses in the Family and Consumer Sciences department.

ADULT LIVING

Z663

0.5 CREDIT

Adult Living is a practical, skills-based course designed to prepare high school students for independent and responsible adulthood. Students explore essential life skills including personal finance and budgeting, banking and credit, career readiness, workplace professionalism, time management, consumer awareness, and basic household management. The course also addresses decision-making, goal setting, communication skills, and healthy relationships, with an emphasis on real-world application. Through hands-on activities, projects, and scenario-based learning, students develop the knowledge and confidence needed to successfully navigate postsecondary education, employment, and everyday adult responsibilities.

INTRO TO SOCIAL WORK AND HUMAN SERVICES	Z666	0.5 CREDIT
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This course introduces students to the possibilities for careers in social work and human service professions. Through anecdotes, lessons, and a variety of assignments and projects, students will learn about the broad variety of jobs available in human services. Students will learn exactly what the human services are and the ethics and philosophies of the helping professions. Students will study the impact of the cultural, social and economic environment on individual people, especially those who need social services assistance.

INTRODUCTION TO PROMOTING HUMAN HEALTH	Z669	0.5 CREDIT
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In this course, we discuss the multiple definitions of public health and the ways that these definitions are put into practice. We explore the five core disciplines (Behavioral Science/Health Education, Biostatistics, Environmental Health, Epidemiology and Health Services Administration) and the ways they interact to reduce disease, injury and death in populations. Also included is the connection between the Center for Disease Control (CDC) and World Health Organization (WHO) and their impact on promoting human health.

BCIT DEPARTMENT

KEYBOARDING AND OFFICE APPLICATIONS	Z550	0.5 CREDIT
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This Edgenuity cyber course will have a brief introduction to keyboarding, and then students will gain the introductory computer skills they need to use Microsoft Word, Excel, and PowerPoint applications to design, develop, create, edit, and share business documents. The student should be able to read and follow detailed on-screen instructions and be able to save and open network computer files independently. This is a project based course. COURSE REGISTRATION: When registering, this course can be found in STEM

ONLINE LEARNING AND DIGITAL CITIZENSHIP	Z552	0.5 CREDIT
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Students will explore effective online learning strategies, time management, communication, and collaboration using digital tools and platforms. The course emphasizes digital citizenship topics such as online safety, privacy, cyberbullying prevention, ethical use of technology, media literacy, and understanding one's digital footprint. Through interactive activities and real-world scenarios, students will develop the knowledge and habits necessary to be responsible, respectful, and productive digital citizens in school, the workplace, and society.

INTRODUCTION TO BUSINESS A	Z554	0.5 CREDIT
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This Edgenuity course is full cyber and meets strictly online. In this introductory course, students learn about the five areas of business. They learn how each of these areas contributes to the overall function of a business. Then, they explore different careers in each of those five areas.

INTRODUCTION TO BUSINESS B**Z556****0.5 CREDIT**

This Edgenuity course is full cyber and meets strictly online. In this introductory course, students learn about the five areas of business. They learn how each of these areas contributes to the overall function of a business. Then, they explore different careers in each of those five areas

INTRODUCTION TO ENTREPRENEURSHIP**Z558****0.5 CREDIT**

In this Edgenuity, full cyber course, you will learn the skills needed to effectively organize, develop, create, and manage your own business, including the challenges, problems, and issues faced by entrepreneurs. You will become familiar with the traits and characteristics that are found in successful entrepreneurs, and you will see how research, planning, operations, and regulations can affect small businesses.

TRAVEL AND TOURISM**Z560****0.5 CREDIT**

In this Edgenuity course, students will learn about the various parts of the travel and tourism industry and how they are interrelated and integral to international and domestic travel and tourism. This will include travel agencies, tour companies, the airlines and other transportation sectors, lodging facilities, cruise lines, and marketing companies.

CHS BUSINESS LAW**Z562****0.5 CREDIT**

In this Teams College in High School course, the student will start with gaining some familiarity with how laws are created and interpreted, and then continue with an introduction to contracts and laws that can impact a business. Bankruptcy, global commerce and international agreements and laws that affect how a business is regulated will also be reviewed. Through a college partnership, students may opt to pay and pursue a 3-credit college course.

PLANNING MEETINGS AND SPECIAL EVENTS**Z564****0.5 CREDIT**

This Edgenuity course is an introduction to the study of planning meetings and special events. Being a meeting and special events planner is both demanding and rewarding. A meeting coordinator is responsible for every detail of an event, and planners must know how to communicate, be empathetic, and think of their clients. You'll begin with an historical overview of the industry, then move to how to organize a meeting, how to set up food and beverages, and finally, how to organize transportation.

CHS INTRODUCTION TO MARKETING**Z566****0.5 CREDIT**

In this Teams College in High School course, 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. Through a college partnership, students may opt to pay and pursue a 3-credit college course. For more information about College in High School Courses (CHS), view the CHS Registration handout on the program menu or on the guidance webpage.

INTRODUCTION TO CONSUMER SERVICES**Z568****0.5 CREDIT**

This Edgenuity course is designed as an overview to prepare students for a consumer services-related career such as customer service, financial counseling, management, sales, and public relations. Students will analyze various career paths of employment opportunities, including educational requirements, skills, and certifications for different careers. It is recommended that Intro to Business or Intro to Marketing is taken prior to this course.

TRANSPORTATION, DISTRIBUTION AND LOGISTICS**Z570****0.5 CREDIT**

This Edgenuity course provides students with the history of logistics, and an overview of the fields of transportation, distribution, and logistics. Students will learn how warehousing and inventory impact the economy and the world of commercial transportation. Future trends in transportation, distribution, and logistics will also be outlined. Students should have a strong understanding of economics.

INTRODUCTION TO FINANCE**Z572****0.5 CREDIT**

This Edgenuity course will focus on the fundamentals of the financial services industry in the United States and explore the jobs and career opportunities that the industry offers. Topics include finance and financial services, securities analysis and investments, corporate finance, banking services, and risk management.

PERSONAL FINANCE 1**Z574****0.5 CREDIT**

Personal Finance 1 is designed to develop a class of financially literate students. They will have the knowledge, skills, and confidence to begin taking charge of their financial future. Budgeting, saving, making investments, and handling credit are financial skills that all individuals need to know. This course is recommended for any junior/senior whether they are college bound or planning on entering the job market immediately upon graduation.

PERSONAL FINANCE 2**Z576****0.5 CREDIT**

This course is designed to add on to the skills and knowledge developed in Personal Finance 1. This cyber-only course is available to students who have already completed and passed the first semester (classroom or cyber version) of Personal Finance 1. Students will gain a deeper understanding of topics including investing, credit, debt, bankruptcy, identity theft, insurance, and home rental and purchase.

INTRODUCTION TO INFORMATION TECHNOLOGY**Z605****0.5 CREDIT**

This course focuses on real-world application, including common industry best practices and specific vendors that offer tools for technicians, project managers, and IT leadership. It should be emphasized that the purpose of the IT department of an enterprise is to support the overall mission of the company; it is not simply a standalone component of the company's infrastructure. Students will continue to apply their knowledge of hardware and software components associated with IT systems while exploring a variety of careers related to IT support and services. Students will analyze technical support needs to perform customer service and configuration management activities and evaluate application software packages and emerging software. Students will demonstrate and apply knowledge of IT

INTRODUCTION TO NETWORK SYSTEMS**Z610****0.5 CREDIT**

The course also explores a good deal of technology, specifically the software and hardware supporting LANs, WANs, and Wi-Fi networks. Particularly important are the protocols in the TCP/IP stack that are used to communicate across a network, but the students are also introduced to the hardware, including hubs, switches, bridges, routers, and transmission media.

INTRODUCTION TO PROGRAMMING**Z615****0.5 CREDIT**

Intro to Programming covers a basic introduction to the principles of programming, including algorithms and logic. Students engage in hands-on programming tasks in the Python programming language as they write and test their own code using the approaches real programmers use in the field. Students will program with variables, functions and arguments, and lists and loops, providing a solid foundation for more advanced study as well as practical skills they can use immediately.

FUNDAMENTALS OF COMPUTER SYSTEMS**Z617****0.5 CREDIT**

Students will learn details about the different elements of computers and computer systems. They will learn to identify hardware devices and their functions. They will be instructed on the role of operating systems as well as how to install and customize the Windows operating system. Students will learn about networking and the Internet. They will also be introduced to security issues in order to protect themselves and their computers and data

NETWORK SYSTEM DESIGN**Z619****0.5 CREDIT**

The Network System Design course will provide students with an understanding of computer networks and how they operate, as well as a basic understanding of how to manage and maintain computer networks. These skills will provide students with the ability to design, configure, and troubleshoot networks of all sizes. Students will learn the basics of network design, including how to identify network requirements and determine proper network architecture. They will be instructed on the requirements of network models, as well as be introduced to local area networks.

SOFTWARE DEVELOPMENT TOOLS**Z721****0.5 CREDIT**

This course introduces students to the variety of careers related to programming and software development. Students will gather and analyze customer software needs and requirements, learn core principles of programming, develop software specifications, and use appropriate reference tools to evaluate new and emerging software. Students will produce IT-based strategies and a project plan to solve specific problems and define and analyze system and software requirements.

FUNDAMENTALS OF PROGRAMMING/SOFTWARE**Z723****0.5 CREDIT**

Students will learn how to think computationally, write and debug basic code, and understand how software is designed, built, and tested. Topics include algorithms, variables, data types, conditional statements, loops, functions, and basic data structures, as well as an overview of software development practices and problem-solving strategies. Through hands-on projects and real-world applications, students will develop logical reasoning, creativity, and collaboration skills while gaining a foundation for advanced computer science coursework and careers in technology.

NEW APPLICATIONS AND DEVELOPMENT**Z725****0.5 CREDIT**

New Applications is a survey course that travels from the first software programs developed to facilitate communication on the Internet to the new generation of mobile and native apps that access the Internet without a reliance on a web browser. New Applications is also a practical course in how to develop a presence on the World Wide Web using WordPress and other available web-application tools. The goal of the course is to provide the learner insight into the rapidly evolving universe of programming and application development so that he or she can make informed career decisions in an industry that is changing as quickly as it is growing.

FUNDAMENTALS OF DIGITAL MEDIA**Z727****0.5 CREDIT**

Fundamentals of Digital Media presents an overview of the different types of digital media and how they are used in the world today. This course examines the impact of digital media on culture and lifestyle, reviews the basic concepts for creating effective digital media, and introduces a number of different career paths related to digital media. Students learn about the tools used as well as the best practices employed for creating digital media. This includes an overview of the new media creation process and the basic concepts of project management.



The Parkway West Career and Technology Center is also open to Carlynton Cyber Academy students. PWCTC offers 16 different programs that aim to prepare students for college and future careers after graduation from high school. These programs fulfill elective credit requirements for high school students in grades 9-12. Seniors who attend the center are also eligible to take the NOCTI exam, which can lead to industry certifications and college credits based on test results.

One of the unique aspects of Parkway is its focus on providing hands-on, real-world experiences for students. For example, students in the Construction Cluster experience a rotation of Carpentry, Electrical Systems Technology, HVAC/R & Welding & Fabrication Technology. Similarly, students in the Culinary

Arts program prepare food for and manage a food store and restaurant that is open to the public on Wednesdays and Thursdays. Qualified cosmetology students also have the opportunity to work in a salon that is open to the public.

Moreover, seniors who attend Parkway have the chance to participate in co-op and clinical opportunities to work in local businesses and nonprofits, which can provide valuable career experience and prepare them for the workforce.

In summary, the Parkway West Career and Technology Center offers a diverse range of programs that provide students with hands-on, real-world experiences and help them gain the skills and knowledge needed to succeed in college and their future careers.

Mission

The mission of Parkway West Career and Technology Center is to empower students with the skills and knowledge necessary to succeed in their future careers. The school places a strong emphasis on student-centered learning and aims to provide rigorous and relevant education that meets the needs of various industries.

In order to achieve its mission, Parkway West Career and Technology Center is committed to building positive relationships with partner schools and industry leaders. The school also recognizes the importance of quality instructors, and strives to hire and retain the best educators. Additionally, the school aims to secure the necessary resources to support its programs and ensure the success of its students.

Ultimately, the goal of Parkway West Career and Technology Center is to prepare students to excel in their chosen careers and to make a positive impact in their communities.

Admissions Information

Students are admitted to career & technology programs at Parkway West Career and Technology Center (CTC) based on their interest in, ability to benefit from, and preparedness for a particular career & technology program. Secondary students who are interested in attending Parkway West CTC can obtain information from Parkway West's website www.parkwaywest.org.

Career guidance services are available at the school to assist secondary and adult students to make informed choices regarding the career & technology programs available. To schedule an appointment with Student Support personnel, please call the school at 412-923-1772.

Adult students are enrolled in Parkway West CTC programs on a space-available basis. A high school diploma or G.E.D. is required of all adults applying for admission. Adult applicants may be tested for academic achievement and vocational interest to ensure appropriate placement.

It is the policy of Parkway West CTC not to discriminate on the basis of race, sex, religion, color, national origin, handicap or limited English proficiency in its Educational Programs, Activities or Employment Policy as required by Title IX of 1972 Educational Amendments, Title VI of the Civil Rights Act of 1964, Section 504 Regulations of the Rehabilitation Act of 1973, and the American Disabilities Act. For information regarding services, activities, programs, and facilities that are accessible to and usable by handicapped persons, or for inquiries regarding compliance with the above nondiscriminatory policies, contact the Director, Parkway West CTC, 7101 Steubenville Pike, Oakdale, Pennsylvania, 15071: telephone 412-923-1772 or to the Director of the Office of Civil Rights, Department of Health, Education, and Welfare, Washington, D.C.

College Credit Opportunities

Seniors enrolled in Parkway West programs may earn industry certifications and college credits by:

- becoming a completer
- scoring Competent or Advanced on NOCTI exam

The NOCTI (*National Occupational Competency Testing Institute*) exam is a Standardized test for students studying career and technical programs in the United States. It is the largest provider of industry-based credentials and partner industry certifications for career and technical education (CTE) programs across the nation. Whether using assessments to meet Perkins accountability requirements, to guide data-driven instructional improvement, or to assist with teacher evaluation systems, NOCTI provides a credible solution through its validated and reliable technical skill assessment.

The Pennsylvania Department of Education supports career and technical education students aligning their high school courses to a college program in order to complete a degree, diploma or certificate. SOAR programs articulate skills and tasks gained at the high school level to course credit earned in a postsecondary degree, diploma or certificate program.

SOAR programs can help students:

- Prepare for entering the job market with college and career ready skills
- Choose the best career pathway
- Save money on college tuition
- Save time by not duplicating coursework in college

* Not applicable to all programs. Check with [Student Services](#) for program eligibility.



Students Occupationally and Academically Ready

www.education.pa.gov/programsofstudy

SOAR programs of study prepare today's student for tomorrow's in demand and high wage careers

SOAR is built on programs of study (POS) that incorporate secondary and postsecondary education elements and include coherent and rigorous academic and technical content aligned with Pennsylvania's challenging academic standards.

The SOAR Articulation Agreement for advanced credit transfer is made possible when eligible postsecondary institutions and Pennsylvania secondary schools offering POS agree to the terms and conditions stated in the Perkins Statewide Articulation Agreement.

SOAR Mission

To prepare students for college and careers in a diverse, high-performing workforce.

SOAR Benefits

- Save money on college tuition
- Save time by shortening college attendance
- Continue on your chosen career path
- Be prepared to enter the job market

SOAR Articulation

SOAR credits are accepted at many higher education institutions. Go to CollegeTransfer.net for further information.

Website Navigation

- **Background**
Policy information on programs of study
- **Framework**
Templates and crosswalks to implement programs of study
- **Articulation**
Information relating to statewide articulation agreements

Learn More About SOAR

- Programs of Study (POS)
- Planning your Career
- Qualifying for SOAR College Credit
- Postsecondary SOAR Partners

Scan this QR code to visit the
PDE SOAR Programs Website



Earn College Credits for Secondary POS Completion

For further information visit:

Bureau of Career and Technical Education
www.education.pa.gov



pennsylvania
DEPARTMENT OF EDUCATION

12/2022

Comprehensive Plan

Click below to view our Comprehensive plan for 2024-2027

[Comprehensive Plan 2024-2027](#)

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AUTO BODY REPAIR

P100

3 CREDITS

The Automotive Collision Technology program offers comprehensive training to students in various areas of the automotive industry, such as MIG welding, computerized paint mixing, and automotive spraying techniques. The program uses the latest technology and equipment in the fully equipped auto shop to ensure that students are up-to-date with the current standards in the industry. In addition, the program offers cooperative education experiences in local dealerships, providing students with valuable hands-on training. The curriculum is nationally recognized and follows the ICAR curriculum, ensuring that students receive the highest quality education. Overall, the program aims to prepare students for a successful career in the automotive collision technology industry by providing them with the necessary skills and knowledge to excel in their profession.

AUTOMOTIVE TECHNOLOGY

P105

3 CREDITS

The Automotive Technology program at Parkway West Career & Technology Center is a NATEF and ASE certified program that meets strict industry standards. The program provides students with hands-on experience using diagnostic equipment in a state-of-the-art auto shop, giving them the practical skills they need to succeed in the field.

As an AYES training facility, the Automotive Technology program also offers students the opportunity to gain work experience in local area dealerships during their senior year. This allows students to make important career connections and gain real-world experience in a professional setting. The program's NATEF and AYES certifications ensure that students receive the best training and preparation to complete their ASE certification, which is a valuable industry credential. In addition to the Automotive Technology program, Parkway also offers Emissions and Safety Inspection classes, which can help students prepare for certification exams in those areas. The center's commitment to providing high-quality training and education in the automotive industry is reflected in its partnerships with industry organizations and its emphasis on meeting industry standards.

CARPENTRY**P125****3 CREDITS**

The Carpentry Program provides a comprehensive curriculum that covers both theoretical and practical aspects of carpentry. Students will learn the safe use of hand and power tools, as well as blueprint reading, which are essential skills for any carpenter. The program also covers floor, wall, and roof framing, as well as interior and exterior finishing, including insulation, drywall, siding, and roofing. One unique aspect of this program is the ongoing project of building a tiny smart home, which allows students to apply their knowledge and skills in a real-world setting. By participating in this project, students will gain valuable experience in carpentry, as well as teamwork, communication, and problem-solving.

Furthermore, students have the opportunity to join SkillsUSA, which is a national organization that promotes career and technical education. By joining SkillsUSA, students can participate in various activities, competitions, and community projects, which can enhance their leadership, communication, and interpersonal skills. Overall, the Carpentry Program provides a comprehensive and hands-on training that prepares students for a successful career in carpentry or for further education in related fields.

COSMETOLOGY**P175****3 CREDITS**

The Parkway Salon is an excellent opportunity for cosmetology students to apply their skills and knowledge in a real-world setting. By working on clients from the community, students can gain hands-on experience and develop their creativity and customer service skills. Through their training at the Parkway Salon, students will learn how to use a range of cosmetology tools and equipment, as well as techniques for hair cutting, styling, coloring, permanent waving, relaxing, manicuring, pedicuring, and skin care. They will also receive training in professionalism and customer relations, which are critical skills for success in the industry. After completing 1,250 hours of training, students will be eligible to test for their Pennsylvania State Cosmetologist License, which is a requirement for practicing as a cosmetologist in the state. The Parkway Salon is an excellent opportunity for aspiring cosmetologists to gain the skills, experience, and licensing needed to pursue a career in this exciting and rewarding field.

CULINARY ARTS**P155****3 CREDITS**

The Culinary Arts program at Parkway West CTC is a great opportunity for students interested in the restaurant industry! The Food Store & Restaurant are open to the public two days per week, providing students with a great opportunity to interact with the public. Students in the program are learning all aspects of the restaurant business, from meal planning and food preparation to dining room management and banquet serving. This will give them a well-rounded education and prepare them for a variety of career paths within the culinary industry. The fact that the program has a commercially equipped kitchen is also a big plus, as students will be learning on equipment that is similar to what they would use in a professional setting. Overall, the Culinary Arts program at Parkway West CTC is a great choice for students who are passionate about food and interested in pursuing a career in the restaurant industry.

CYBER SECURITY & NETWORKING TECHNOLOGY**P205****3 CREDITS**

This program is a great opportunity for students interested in gaining skills and knowledge in the Networking and Cyber Security fields. The emphasis on both theory and hands-on training is beneficial as it prepares students for both employment and post-secondary education. The program covers a variety of essential topics such as advanced troubleshooting, computer assembly, mobile devices, security, and operating systems. In addition, students will develop critical thinking and problem-solving skills, which are highly valued in the technology industry. This program also incorporates hands-on learning as this approach provides students with practical experience, which can be highly

beneficial when entering the workforce. The program's focus on current issues facing information technology within our society is a valuable aspect as it broadens students' understanding of the field beyond the local context.

DIESEL TECHNOLOGY

P225

3 CREDITS

Diesel Technology teaches students the necessary skills to inspect, repair, and replace various components in diesel-powered vehicles. Students have the opportunity to work with vehicles manufactured by several well-known brands, including Cummins, Freightliner, Kenworth, Mack Trucks, Navistar, Peterbilt, and Volvo. The course begins with instruction on shop safety and proper tool use before moving on to more advanced activities, such as performing a diesel engine tune-up or replacing a cylinder head. The Diesel Technology Program is partnered with Cummins Sales & Service. Senior students have an opportunity to apply to the School-to-Work Pre-Apprenticeship Program with Cummins.

ELECTRICAL SYSTEMS TECHNOLOGY

P245

3 CREDITS

The Electrical Systems Technology course is a comprehensive and hands-on program for anyone interested in becoming an electrician. Students get to work with industry-standard equipment and tackle real-life projects to prepare them for the workforce. Learning about job-site safety, National Electrical Code requirements, and blueprint reading is crucial for any electrician to ensure the safety and efficiency of their work. This program covers a wide range of skills, from residential wiring to industrial motor control systems and solar panel installation, which will provide students with a diverse set of career opportunities. Overall, it is a well-designed program that can equip students with the skills and knowledge needed to succeed in the electrical industry.

GRAPHIC ARTS & PRODUCTION TECHNOLOGY

P260

3 CREDITS

Graphic Arts & Production Technology is a comprehensive course that prepares students for careers in the graphic arts and printing industries. The combination of traditional printing techniques with modern digital tools is particularly relevant in today's market. Students will be equipped with skills in layout, composition, and design using computer graphics, as well as knowledge of various printing and bindery techniques. The inclusion of photography and laser engraving also adds to the versatility of the program. The emphasis on typography and color preparation is crucial in producing visually appealing and effective designs. Students will also learn large format digital printing with various output and vinyl applications. Overall, Graphic Arts & Production Technology offers a well-rounded and practical education for students interested in pursuing careers in the printing and design industries.

HEALTHCARE OCCUPATIONS TECHNOLOGY

P265

3 CREDITS

The Healthcare Occupations Technology program provides students with a variety of opportunities to learn and develop the essential skills needed to pursue a career in healthcare. Throughout the program, students have the ability to earn certifications, such as OSHA-10 for Healthcare Professionals, Patient Care Technician, Phlebotomy Technician, Pharmacy Technician, and Basic Life Support for the Healthcare Professional. These certifications can be extremely valuable as our students graduate and enter the healthcare industry. Many of the students that take this course have dreams of becoming a nurse after graduation. As lecture is an important part of the Healthcare Occupations Technology program, engaging in clinical rotations in 11th and 12th grade helps put all the knowledge learned in previous years together. Clinical rotations can occur in nursing homes, hospitals, or doctor's offices. These firsthand experiences are a valuable way for students to gain experience in the healthcare industry and help them identify which career path they want to pursue after graduation. An addition to the program in 2023 is a new simulation manikin. As technology is the way of the future, our students will learn how to take care of a patient at the bedside in many different aspects. Our new simulation manikin comes with heart sounds, lung sounds, blood pressure readings in both arms, and so much more.

HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION (HVAC/R)

P270

3 CREDITS

The Heating, Ventilation, Air Conditioning & Refrigeration (HVAC/R) program provides students with a comprehensive education in the installation, maintenance, and repair of HVAC/R systems. Students learn a variety of skills, including piping, wiring, system installation and servicing, air duct fabrication, and ventilation system evaluation. The program also emphasizes job-site safety, tool use, blueprint reading, and other fundamentals that are important in the HVAC/R industry. In addition, students have the opportunity to work with appliances from industry-recognized manufacturers and collaborate on projects that mirror real-world tasks. This program offers a progressive learning experience, with first- and second-year students learning foundational skills and third- and fourth-year students tackling more advanced projects. Upperclassmen are encouraged to secure co-op positions with local companies to further develop their skills and gain practical experience in the field.

POWER MOTORSPORTS TECHNOLOGY

P305

3 CREDITS

Power Motorsports Technology is a comprehensive training program focusing on motorcycles, marine products, lift trucks, lawn maintenance products, and the engines that power them. This specialized area requires specific skills and knowledge to repair and maintain properly. By covering a range of equipment types, this program will provide students with a broad understanding of Power Motorsports Technology and prepare them for a range of potential careers in the field. Some of the topics that might be covered in such a program could include engine diagnosis and repair, electrical systems, fuel systems, suspension and steering, and brake systems. Students may also learn about the latest advancements in Power Motorsports Technology, such as hybrid engines and electronic controls.

PUBLIC SAFETY TECHNOLOGY

P300

3 CREDITS

Public Safety Technology is an opportunity for students interested in pursuing a career in the emergency response industry. The hands-on training provides students with valuable real-world experience and exposure to different aspects of emergency response, including fire fighting, emergency medical services and law enforcement. The program covers a range of technical fields, including police science, fire science, rescue operations, hazardous materials, and emergency medical services. This comprehensive approach ensures that students receive a well-rounded education and are prepared to enter the emergency response industry with a broad skill set. The program also offers training for the Emergency Medical Technician certifications, which are highly valued credentials in the emergency response field. These certifications can open up immediate employment opportunities for students upon graduation.

SPORTS MEDICINE & REHABILITATION THERAPY TECHNOLOGY (SMARTT)

P310

3 CREDITS

The SMARTT program is designed to provide students with a comprehensive understanding of the fields of physical therapy, occupational therapy, physical rehabilitation, exercise physiology, and sports medicine. Students will gain valuable knowledge and skills in the diagnosis, assessment, prevention, and rehabilitation of bodily injuries and related health conditions. Through the program, students will learn how to develop patient care plans, including assessment, evaluation, and interventions such as exercise, manual therapy, modalities, and neuro re-education. They will also learn how to set goals and create discharge plans for patients. In addition to these skills, students will also gain an understanding of nutrition and how to develop proper diet plans for healthy individuals, as well as tailor diet plans for special populations. Upon completion of the SMARTT program, students will be equipped with the foundational knowledge and skills needed

to work as a Personal Trainer/Coach or Physical Therapy Aid. The program also provides a solid base for students to build upon if they choose to pursue a post-secondary degree or advanced certification in any of the related fields.

VETERINARY ASSISTANT TECHNOLOGY

P325

3 CREDITS

The Veterinary Assistant Technology program provides students with hands-on training and knowledge of animal care and management techniques. By completing this program, students will be equipped with the necessary skills to work in veterinary clinics, animal shelters, research facilities, and other animal care settings. The program covers various topics such as animal anatomy and physiology, medical terminology, pharmacology, animal behavior, and nutrition. Students will also learn how to communicate effectively with clients and assist with procedures such as vaccinations, blood draws, and surgical preparation.

WELDING & FABRICATION TECHNOLOGY

P345

3 CREDITS

The course is an accredited test facility(ATF) through the (AWS)American Welding Society That allows students the possibility of earning national industry certifications.The course is highly project-oriented and hands-on, with a focus on teaching various welding and fabrication processes such as SMAW, GMAW, FCAW, and GTAW. Additionally, students will learn plasma cutting, Carbon Arc Cutting, and oxy-fuel cutting.

The Welding I course begins focusing on teaching core welding techniques such as basic setup of oxy-fuel equipment, grinder usage.During welding 1 students can obtain national certifications in Stick(SMAW) welding, and Mig(GMAW) welding. Welding II offers more advanced opportunities to perfect welding skills and complete projects. During Welding II, students can obtain the national AWS certification in Flux core arc welding(FCAW) and Gas Tungsten Arc Welding (GTAW). Senior year will focus on pipe welding techniques. In addition students will learn Fabrication skills,Blueprint reading, auto cad and Inspection methods with a concentration on (NDT)Non Destructive Testing methods. The course aims to help students work towards assigned competencies to find employment, receive college articulation credit, and/or receive certification in a Welding and Fabrication career. It is expected that students act in a professional and ethical manner at all times. All students will become members of the AWS and SkillsUSA student member organizations here at Parkway.

STEPS BEFORE SCHEDULING

Prior to submitting course requests, students are encouraged to review the Career Pathways and the Multi-Year Academic Planning Worksheet available in this Program of Studies to ensure course selections are aligned with potential post-secondary plans, allow students to select the appropriate course for successive years, and provide appropriate prerequisite requirements for course progressions within departments. Additionally, students should confer with parents, family members, teachers, coaches, advisors, and school counselors in order to choose the courses and programs that best prepares and challenges you for your future. Students and parents are also responsible for ensuring all graduation requirements are satisfied and course selections include a minimum of seven (6) credits unless administratively approved.

Course Request Procedures

Parents and students have the opportunity to complete the course request process online by accessing PowerSchool from any computer with Internet access and a web browser. The course request window availability will be published and shared through district communication outlets. Students who do not complete course requests during this window will be assigned a scheduling appointment through the school counseling office and may have limited scheduling options.

How to request courses

1. Log into your personal PowerSchool account. You may access the Course Request site by using either the parent or student log-in and password.
2. If you do not have a current username and password, please email Mrs. Rebecca Yoest, the Guidance Secretary rebecca.yoest@carlynton.k12.pa.us
3. Once you have logged in, click on the "[Class Registration](#)" button found in the left hand navigation column.
4. Click on the "[Edit](#)" button to the right of each department box. This will take you to the Course Request Menu.
5. The course request menu will open in a new window. Select the appropriate [course](#) and click "[Okay](#)".
6. Repeat these steps for each department and course selection.
7. After choosing all course requests, click "[Submit](#)" at the bottom of the webpage.