



WHITEHALL
HIGH SCHOOL

COURSE OF STUDY
CATALOG
2021-2022

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Equal Opportunity (Non-discrimination) Policy

The Whitehall-Coplay School District, an equal opportunity employer, will not discriminate in employment, educational programs or activities, based on race, gender, handicap or because a person is a disabled veteran of the Vietnam Era. This policy of non-discrimination extends to all other legally protected classifications. Publications of this policy in this document is in accordance with State and Federal laws, including Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and Title VI and VII of the Civil Rights Act of 1964. We further affirm that all curriculum offerings and student enrollment practices will be handled without discrimination based on gender, race, religion, National origin or non-job related handicaps or disabilities.

PRINCIPAL'S MESSAGE

Dear Students, Parents/Guardians, and Community,

The purpose of this guide is to provide you with a catalog of the courses available here at Whitehall High School. Parents are encouraged to retain this guide for use throughout your child's high school years. By projecting a tentative plan for four years, parents and students can anticipate a sequence of courses that will provide the best possible program available based on individual needs and goals. The school district will attempt to offer those courses listed in this guide; however, please note that not all courses may be offered each semester or on an annual basis. Certain changes need to be made each year in order to adhere to the course offering guidelines, which consider the number of students interested in particular courses, staff availability, and scheduling parameters.

Course selection is a very important process that has a far reaching impact on our students. As employment opportunities continue to evolve, we must ensure that our students are prepared with a myriad of skills to enter an ever changing workforce. Whether their interests lie in college preparatory coursework, career and technology, or vocational school, their choices will set the foundation for their future.

In each of the above options, the best preparation for one's future will be a good broad-based core educational background, which should include various disciplines. It is essential that all students are guided toward a balanced high school experience that includes as many of the disciplines as possible and provides a rich, engaging base on which to build a life of productive, self-satisfying activities and life-long learning. The program of studies at Whitehall High School is designed to prepare students for college and career readiness. Additionally, the program of studies will integrate new and challenging traditional academic and technical academic courses that are designed to enable students to acquire the information, skills, and competencies necessary for success after high school.

In some cases, students will need additional academic support. This will be determined through various criteria such as Keystone Exams, diagnostic tests in reading and math, grades in content areas, and teacher recommendations. In such cases, students may be scheduled and required to take courses that will provide additional academic support in lieu of an elective. These courses may be required for students performing below basic and basic on the Keystone Exams, as well as other diagnostic indicators. Whitehall High School is committed to improved student learning and increased achievement for all students.

As you review this catalog, please study carefully the courses offered. Be aware of the courses required for graduation, as well as the array of electives available from which you may choose to enhance your knowledge base, as these decisions will shape the foundation you build for your future. Teachers, principals, and your counselor will be available to answer your questions and assist in fine-tuning your selections to meet your individual needs, while keeping in mind your future goals. As you consider your course selections, be ambitious and play to your strengths, or take a chance and try something new.

We are proud of our school and our programs, and we will constantly strive to make the years you spend at Whitehall High School meaningful and rewarding. This is your high school; this is your time – make the most of it, and know that we are delighted to share in your journey.

*Nathan T. Davidson
Principal
Whitehall High School*

WHITEHALL HIGH SCHOOL DIRECTORY

WHITEHALL HIGH SCHOOL

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Web Site: <http://www.whitehallcoplay.org>**SCHOOL COLORS:**

Maroon and Gold

NICKNAME:

“The Zephyrs”

APPROVED BY:

Department of Education – Commonwealth of Pennsylvania in compliance with Chapter 4 Guidelines

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(A – C)

Ms. Amy Shoup, School Counselor

(D – He)

Mrs. Meredith D. McLaughlin, School Counselor

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Mr. Shawn Hazim, School Counselor

(S – Z)

Mr. Douglas R. Hauck, School Psychologist

Ms. Courtney Dragovits, School Nurse

MISSION, BELIEFS, AND PROFILE OF GRADUATES

MISSION STATEMENT

The mission of the Whitehall-Coplay School District is to serve the diverse community by providing educational opportunities designed to challenge students to strive for personal excellence and responsible citizenship.

BELIEF STATEMENTS

We believe all students have an ability to learn, are unique, and have positive contributions to make.

We believe all students desire success and recognition.

We believe all students need nurturing relationships to mature socially, intellectually, and emotionally in their individual style and at their own pace in a safe environment.

We believe lifelong learning, which is a shared responsibility of all stakeholders, is essential for success in a global society.

We believe excellence in programs, facilities, and technology is achievable and always worth the investment.

We believe developing understanding, respect, and appreciation for others is essential in today's diverse society.

PROFILE OF GRADUATES

A graduate from Whitehall High School will be a **LEARNER** for life.

He/She will

Listen and think critically.

Employ technology effectively.

Analyze problems and work collaboratively toward a solution.

Realize a need to take an initiative and lead others.

Navigate life with the goal of becoming a respectful, active member of society.

Endeavor to act with integrity.

Respect lifelong learning.

GRADUATION REQUIREMENTS AND SUMMER ASSIGNMENTS

GRADUATION REQUIREMENTS

The Whitehall-Coplay School District requires that all students complete a minimum number of credits in order to receive a High School diploma. Students are required to complete a minimum of **25 Credits** in order to graduate. Students must take a minimum of 7 credits per year except in their senior year when students must take minimum of 6 credits.

SUBJECT	MINIMUM CREDITS
English	4.0
Social Studies	4.0
Math	4.0
Science	4.0
Art/Humanities*	1.0
Wellness and Fitness**	2.0
Career Pathway Electives	6.0

*During high school, students must take at least one (1.0) credit in art/humanities. Any elective course offered in the following departments may be used to satisfy the Art/Humanities requirement: English, Social Studies, World Language, Family & Consumer Science, Art and Music. A minimum of 2 consecutive credits of a World Language is recommended for students planning on attending a college or university of higher education.

Students are required to enroll in the course, Career Exploration and Technology, as a 10th Grade student. Students who attend LCTI will be exempt from taking Career Exploration and Technology.

**Students must take Health 1 (0.5 Credit), Health 2 (0.5 Credit), and PE 1 (0.5 Credit). Students may select from various options for the second Physical Education course (0.5 Credit) – Lifetime Sports, Personal Fitness, Team Sports, Strength & Conditioning, or Lifeguarding/CPR/First Aid if they meet the course prerequisites.

In addition to the above required courses and in accordance with the revised Chapter 4 regulations, students in the Class of 2023 and beyond must demonstrate a score of proficiency on the designated Keystone Exams in order to matriculate. Students who do not achieve a proficiency level on a Keystone Exam, will be remediated and required to retake the exam in order to attain proficiency. Opportunities for remediation and retake of exams will be required during the high school years to achieve this requirement.

MANDATORY READING AND WRITING -- FOR ADVANCED PLACEMENT, HONORS, AND DUAL ENROLLMENT COURSES

Many high school courses will require a reading/writing component. Honors/Dual Enrollment/AP students may be required to do outside reading(s) and/or a summer assignment prior to the start of the course. Books, materials, and assignments will be made available in June through the assigned teacher(s) for these courses. An assessment may take place on the required summer reading(s) or assignment during the first week of the course. In addition, students will be responsible to complete writing assignments throughout each course. **It is the responsibility of each student to obtain the assignment, book, and assessment from the teacher(s) prior to the end of the school year. After this time period, students may be required to purchase these books.** Further details regarding summer assignments can be obtained from the WHS Summer Reading Assignments section of the high school website or via the link <http://sites.google.com/a/whitehallcoplay.org/summer-reading/>. This site is updated each June for the next school year.

PENNSYLVANIA KEYSTONE EXAMS

School districts across the nation and within the state of Pennsylvania are held accountable for ensuring that all students receive a high quality standards-based education. Pennsylvania has adopted the Pennsylvania Core Standards, standards aligned with expectations for success in college and in the workplace.

Algebra 1, Literature, and Biology Keystone Exams replaced the 11th grade Pennsylvania System of School Assessment (PSSA) tests in mathematics, reading, and science for purposes of satisfying Every Student Succeeds Act (ESSA) requirements. The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. Students, regardless of grade, enrolled in a Keystone related course will participate in the Keystone Exam at the end of the course. All students must participate in the Algebra 1, Literature, and Biology Keystone Exams by the end of 11th grade. In addition, a student's highest performance level on a Keystone Exam will be reported on all student transcripts.

In an effort to meet the requirements set forth by the Pennsylvania Department of Education (PDE), Whitehall High School requires that students demonstrate academic proficiency on the Keystone Exams. Students who do not score proficient or above on a Keystone Exam will be encouraged to participate in remediation. Remediation programs will be individualized and will target the specific skills requiring remediation as demonstrated by the Keystone Exams. Throughout remediation, student progress and growth will be monitored and assessed. Following participation in remediation, students will be encouraged to retake the Keystone Exam in order to demonstrate proficiency, as per Chapter 4 regulations set forth by the Pennsylvania Department of Education. Once Keystone Exam testing results have been released to the district, an individualized student performance summary on each of the assessed areas will be mailed home. This document should assist families in understanding how the student performed and in determining the most appropriate form of remediation, if necessary. Students will be offered multiple opportunities to take the Keystone Exams throughout their high school careers. Across the state, the Keystone Exams is administered three times each year – winter, spring, and summer.

Beginning with the Class of 2023, students must meet demonstrate proficiency on the Algebra 1, Literature, and Biology Keystone Exams or meet one of the alternative pathways in order to graduate. In accordance with Act 158, the statewide graduation requirements take effect with the Class of 2023 and provide five options for meeting the graduation requirements: (1) Keystone Proficiency Pathway, (2) Keystone Composite Pathway, (3) Alternative Assessment Pathway, (4) Evidence-Based Pathway, and (5) Career and Technical Education Pathway. While the first pathway relies directly on the use of the Keystone Exams, the last four pathways expand the options for students to demonstrate postsecondary readiness using measures that more fully illustrate college, career, and community readiness. PDE is in the process of designing these alternative pathways to graduation for students in the Class of 2023 and beyond who have not been able to score proficiency on one or more of the Keystone Exams.

Additional information pertaining to the Keystone Exams or revised graduation requirements may be obtained by visiting the PDE's website at <https://www.education.pa.gov> and click on Data and Reporting - Assessments - Keystone Exams or Graduation Requirements.

GRADING SYSTEM AND PROCEDURES

PHILOSOPHY

The student assessment system of Whitehall High School is designed to provide an equitable and consistent measure of student achievement and progress. The primary objective of grades communicated through the reporting system is to provide notification of student achievement and progress. It is believed the grading system should reflect a student's achievement as measured by various assessments, effort, homework, and participation. Moreover, a system of grading is valued by the school community and serves as a means of motivation and recognition of student achievement.

PROCEDURE

The **final exam/assessment*** is 10% of the final course grade. The quarter grades are averaged together with the final exam/assessment grade to determine the final grade. Grades are given in percentages, however, only the letter grade will be reported on the report card. The lowest grade a student may receive the first marking period of each class is a 50%. For the remaining three marking periods, a student will receive the grade percentage that he or she earns. Teachers and administrators reserve the right to monitor student grade percentages per quarter as well as the final grade.

*Final exams/assessments will be given at the end of each course in all subjects at Whitehall High School. Final exams/assessments will test the most important learning objectives of the entire course and emphasize critical thinking skills. Students enrolled in a course that is aligned with a Keystone Exam will not be required to take a final exam/assessment. The final exam/assessment grade is not averaged into the fourth marking period. The final exam/assessment is equal to ten percent of the final course grade. Any student, grade 9-12, who earns a minimum grade of an A- for all marking periods (four for a full-year course and two for a semester course) will not be required to take the final exam in that course. Final grades for courses that do not have a final exam will be determined by averaging the quarter grades together.

REPORT CARDS AND STUDENT PROGRESS

Report cards will be issued electronically four times per year via SwiftReach SwiftK12 notification system. At the mid-point of each quarter, students who have a grade of C- or less will be issued progress reports via SwiftReach SwiftK12 notification system. Parents should regularly review grades, comments, and attendance with their child.

An After-School Tutoring Program will be available for students who are struggling academically in core subjects, health, and/or a world language. In addition, the Whitehall High School Library is available after school to any student who needs a quiet place to study, do homework, or access technology.

Failure to complete assignments, frequent lateness to or absence from school and demonstrated indifference are major contributors to student failure. These contributors may apply to quarter as well as to final course grades. Blatant refusal either to attempt or to complete a significant number of course requirements may, by itself, justify a final course grade of F. Such failures may occur despite the quality point average attained for work, which has been completed. Failures assigned for this reason must have both approval of the building principal and parental notification by the teacher. Conversely, at the teacher's discretion and with the principal's approval, a grade higher than that warranted by the point total may be assigned to the student who shows commendable improvement as the year progresses.

PARENT/STUDENT PORTAL AND WEIGHTING SYSTEM

PARENT/STUDENT PORTAL

The PowerSchool Parent/Student Portal is a web-based resource that facilitates communication between the school and the home or student. Students and their parents/guardians will be able to obtain vital information quickly and accurately simply by logging on to PowerSchool Parent/Student Portal from home, school, work, or any computer linked to the Internet. Parents will have access to grades and future assignments enabling you to assist your child achieve to his/her potential and communicate with the school. In addition, students will be able to monitor their own academic progress. The PowerSchool Parent/Student Portal link can be found on the district and high school websites, www.whitehallcoplay.org. User id and password information is mailed home early in the school year. Additional information can be obtained through the Whitehall High School Main Office.

GRADING SYSTEM

Students receive letter grades for each class. Honors and AP courses are weighted.

WEIGHTING SYSTEM

Mark	Grade Point	Mark	Grade Point	Mark	Grade Point
A+	4.33	A+	4.83	A+	5.33
A	4.00	A	4.50	A	5.00
A-	3.67	A-	4.17	A-	4.67
B+	3.33	B+	3.83	B+	4.33
B	3.00	B	3.50	B	4.00
B-	2.67	B-	3.17	B-	3.67
C+	2.33	C+	2.83	C+	3.33
C	2.00	C	2.50	C	3.00
C-	1.67	C-	2.17	C-	2.67
D+	1.33	D+	1.83	D+	2.33
D	1.00	D	1.50	D	2.00
D-	0.67	D-	1.17	D-	1.67
F	0.00	F	0.00	F	0.00
Regular Courses		Honors Courses		*AP Courses	

Exceptions to the alpha system are as follows:

I	Incomplete – work must be made up within two weeks after the end of the marking period
X	Medical Excuse
W	Withdrawn
WP	Withdrawn Passing
WF	Withdrawn Failing
NG	Audit

***If a student declines to take the AP test in May, then there will be no additional AP weighting. In this case, honors weighting will be applied.**

The **exceptions to the alpha system** are not calculated in a student's Grade Point Average (G.P.A.). Students are reminded that an Incomplete reverts to a failing grade if work is not completed and returned within two weeks after the end of the marking period.

WITHDRAWN COURSES, HONOR ROLLS, CLASS RANK AND AVERAGES

WITHDRAWN COURSES

A student who wishes to withdraw from a course must submit to their counselor a completed "Change of Course Request" form with all required signatures. The request must be made within **eight (8)** school days of starting a semester. The student's counselor will verify that another course or study hall can be substituted without jeopardizing the necessary requirements for graduation.

Students requesting to withdraw from a course after the eighth day of the semester and prior to October 1st for Yearlong or Semester 1 classes and March 1st for Semester 2 classes will receive a "W" on their transcript. After October 1st/March 1st, students may not withdraw from a semester course.

Administrative approval is required for a student who requests to withdraw from a yearlong course after October 1st. The student's transcript will indicate a "WP" if the student is maintaining a passing grade or a "WF" if the student's grade is below passing at the time of withdrawal. These changes may only occur if another course/study hall can be added without jeopardizing the necessary requirements for graduation. Additionally, a grade of "WP" or "WF" carries no value towards a student's GPA.

HONOR ROLLS

The high honor roll and honor roll recognize student academic achievement. Students will qualify for the high honor roll or honor roll with the G.P.A. as follows:

High Honor Roll – 4.00 or better and no grade lower than an A-.

Honor Roll - 3.00 to 3.99 and no grade lower than a B-.

CLASS RANK AND AVERAGES

The **Grade Point Average (G.P.A.)** is a system for calculating a student's scholastic average on a 0 to 4 scale and is used to determine class rank. The calculations are performed in the following manner: Each course has an assigned **Credit Value**. For example, Health 1, Course 020 has a **Credit Value** of 0.5 and English 9, Course 160 has a **Credit Value** of 1.0.

At the end of the course, the final average is calculated and a grade is assigned. For example, a full year course earning a **1.0 Credit Value** will have a **Credit Value** of 1.0 times the final grade. A semester course earning a **0.5 Credit Value** will have a **Credit Value** of 0.5 times the final grade.

All final grades are multiplied by the **Credit Value** of the course. The product of all courses are added and divided by the total credits, resulting in **Grade Points**.

A cumulative year-to-date G.P.A. is calculated at the end of the school year for all students. During a student's senior year, the cumulative year-to-date G.P.A. is calculated only after the completion of all coursework and exams. **At this time a valedictorian and salutatorian will be selected. Students ranked in the upper tier of their class should prepare for commencement exercises in the event they are selected as valedictorian or salutatorian.**

FAILED COURSES, INDEPENDENT STUDY PROGRAM, STUDY HALL, SENIOR DISMISSAL

FAILED COURSES

Students are strongly encouraged to make up any failed courses required for graduation in a summer remediation program. Whitehall High School offers courses through an online educational remediation program titled “Educere”. Students will be notified at the end of the school year of any course that can be made up through the summer remediation program. In the event that a particular course is not offered through “Educere”, arrangements must be made with the counseling department to attend another approved summer school program. All LCTI students who fail major coursework at Whitehall High School are encouraged to attend summer school so as to graduate on time and continue their studies at LCTI. Any exception to the above policy will be reviewed by the high school administration with final approval by the building principal.

INDEPENDENT STUDY PROGRAM

Seniors may engage in an independent study program by notifying their counselors of their desire to participate in this program. Students who wish to participate in the independent study program are selected on the following basis:

- Desire to be enrolled in a course within the career pathway, which is impossible to schedule.
- Course will receive a grade and assigned course value, but the grade will not be included in G.P.A. calculations.
- Prior to approval, the course must be requested in writing by the student and parent in cooperation with the student’s assigned counselor and proposed teacher. Additionally, the teacher must submit to the principal an outline of the course including curriculum, assessments, and assignments. Course approval will be determined by the building principal.
- Agreement must be completed prior to the beginning of the course.
- Any exceptions to the above policy must be approved by the principal.

STUDY HALL

Students in grades 9-11 may include up to one full-year period of a study hall within their schedule. Seniors may take up to two full-year periods of a study hall. The expectation of a study hall is that it is a quiet and respectful environment intended primarily for academic tasks. Students do not earn academic credit for a study hall.

SENIOR DISMISSAL

Senior Dismissal is directly linked to a student’s study hall and is a privilege that is earned. Senior Dismissal enables seniors who elect to take a study hall to enter the building late or leave early when their study hall period falls at either the beginning or end of the school day. Parent permission is required. In order for a student to remain on campus during a Senior Dismissal, the student must gain prior administrative approval and sign in with the Attendance Office. Additionally, students must arrange their own transportation to or from school. Students arriving after a period has started will be marked as late. Students who forgo Senior Dismissal must report to class for the entire period. Failure to do so may result in disciplinary action for lateness.

HOMEBOUND, GIFTED, COLLEGE COURSE ENROLLMENT

HOMEBOUND INSTRUCTION

As per School Board Policy #117 – “Homebound Instruction”, Whitehall-Coplay School District will provide homebound instruction for a maximum of five hours per week. The student must meet the following requirements:

1. Has a physical/mental health impairment that will prevent attendance at school for more than ten (10) consecutive school days.
2. Presents a medical doctor’s statement attesting to the physical/mental health impairment and the estimated length of confinement. This request must be renewed by a doctor after ninety (90) days.

Requests for homebound instruction should be submitted to the building principal. Upon receipt of a medical physician’s signed request, the principal will initial the request form and forward this paperwork to the student’s counselor. If the request for homebound instruction is of a mental health nature, a meeting should be scheduled including the parents, student, school counselor, building principal, and school psychologist to discuss alternative programs/modifications. Students may earn up to a maximum of eight credits in a school year. As per board policy, the program of homebound instruction provided to each student shall be in accordance with the standards established by the state.

GIFTED

If evaluated and identified as gifted, a student may develop an Individualized Education Program by working with his/her counselor to choose from the following options:

1. Honors/Academic Courses – Differentiated Instruction/Assignments
2. A.P. Courses
3. Distance Learning
4. Independent Study
5. Dual Enrollment Courses
6. LCCC Course (1/junior year and/or 1/senior year)
7. Regular Course Offerings
8. Emerging Health Professions (An application process and interview for admission is required.)

OPPORTUNITIES TO EARN COLLEGE CREDITS WHILE IN HIGH SCHOOL

Whitehall High School students may earn college credits while still in high school. Listed below are options for students:

1. Enroll in a dual enrollment course taught at WHS, which allows students earn both WHS credit and LCCC credits.
2. Enroll in college courses during senior year. Senior students may select one of the following options:
 - a. Waive senior year at WHS to attend LCCC full time during senior year.
 - b. Attend a local 2 or 4-year college/university on a part-time basis while also enrolled in WHS to satisfy graduation requirements.
3. Waive Junior and Senior years at WHS to attend LCCC full time to earn high school graduation requirements in addition to an Associate of Arts Degree.
4. Colleges and universities may award credits based on performance earned on one or more College Board Advanced Placement Exams. Visit the College Board website (<https://www.collegeboard.org/>) for more information.

DUAL ENROLLMENT COURSES (Grades 11, 12)

Dual Enrollment between Whitehall High School and Lehigh Carbon Community College currently is based on sufficient student interest. “Dual Enrollment” allows a student to take a high school course and receive both high school honors credits and Lehigh Carbon Community College credits for the same course. **In order to receive the three credits from LCCC, there is a nominal per credit cost for the course which will be due at the beginning of the course (date set by LCCC).** Text books are supplied by the school district.

The following courses are offered as “Dual Enrollment” courses: Honors English 4-LCCC, Advanced Drawing, Probability and Statistics, Issues In 20th Century America, Speech/Public Speaking, and World History. Students who seek “Dual Enrollment” in Honors English 4-LCCC, Probability and Statistics, World History, and Issues In 20th Century America must meet the pre-requisite qualifying score through PSAT, SAT, Keystone Exams, or LCCC placement testing.

COLLEGE COURSE ENROLLMENT

Whitehall High School attempts to accommodate students who wish to enroll at a local or online college for college-level courses during their senior year. Transportation and tuition must be borne by the student and his/her family. Every attempt to adjust the student’s high school schedule will be made in order to facilitate their enrollment at local colleges.

College courses must have prior approval of the high school principal and must be approved in writing prior to the first day of each semester. College courses will not be counted as part of the G.P.A. or class rank. Prior to starting a course, students are required to provide official verification of enrollment. In order for college courses to count toward a student’s high school core or elective credit requirement, the student must provide an official college transcript verifying grade and credit(s) earned from the college.

WAIVER OF SENIOR YEAR TO ATTEND COLLEGE

A Whitehall High School senior may have his/her senior year waived by submitting a letter to the high school principal stating that the student has been granted early admission to college. This letter must also include a request for a waiver of the senior year. A student who has been granted a waiver will be awarded a Whitehall High School diploma upon satisfactory completion of a minimum of 12 credits in each semester of the freshman college year. Transportation and cost for tuition and textbooks must be borne by the student and his/her family. **Seniors, who opt to waive their senior year, may participate in graduation ceremonies and in WHS extra-curricular activities, including athletics. The student may participate in graduation ceremonies but will not be a competitor for senior awards.**

WAIVER OF JUNIOR AND SENIOR YEAR TO ATTEND COLLEGE

In partnership with Lehigh Carbon Community College (LCCC), juniors and seniors will have an opportunity to participate in a dual enrollment opportunity to earn a General Studies Associates of Art Degree through LCCC’s School of Humanities and Social Sciences. Upon acceptance into the program, students would complete their junior and senior year courses at LCCC’s Main Campus in Schnecksville. Additionally, students must submit a letter to the high school principal stating that the student has been granted early admission to college and is requesting to waive his/her junior and senior year. Upon graduation, students will not only receive a Whitehall diploma, but also their Associates of Art Degree in General Studies, which transfers to many four-year colleges. Students are encouraged to consult with an academic advisor or counselor to ensure that the courses selected meet LCCC requirements and those of the four-year college or university to which transfer is being considered. Students must complete an application and be accepted into the program in order to participate. Transportation and costs for tuition and textbooks must be borne by the student and his/her family. Students who opt to waive their junior/senior year may participate in WHS extra-curricular activities, including athletics. Seniors may participate in graduation ceremonies, but will not be a competitor for senior awards.

NCAA ATHLETIC ELIGIBILITY

NCAA ATHLETIC ELIGIBILITY

All students whose future plans include enrolling in college and participation in Division I or Division II athletics must be certified by the NCAA Eligibility Clearinghouse. Athletes planning to enroll in NCAA Division III do not have to register. Students should obtain the most recent approved course list from his/her counselor or the NCAA website at <http://www.eligibilitycenter.org>. Students will need to enter the Whitehall's School Code (391785). Course changes and new courses are submitted to the NCAA every year. Therefore, it is important to check periodically for any changes in course approvals and eligibility requirements.

The NCAA requires prospective student athletes who are planning to enroll in Division I or Division II institutions to supply SAT and/or ACT scores to the NCAA Clearinghouse **directly from the testing agencies**. Test scores on an official high school transcript cannot be used for NCAA purposes. Student athletes must send these scores directly to the Clearinghouse using the “9999” code. **An asterisk before a WHS course title in this Course Catalog indicates that it meets NCAA guidelines!**

Student athletes should complete the registration for eligibility through the website at the end of their junior year. A completed Eligibility Transcript Release Form must then be brought in to the high school Counseling Office and be accompanied by a WHS Official Transcript Release form (available in the Counseling Office). The student may not be allowed to participate in collegiate athletics during the freshman year if this process is not followed.

- **Division I Eligibility:** Students must complete 16 core courses in high school. Please see the “Sliding Scale” on the website to match test scores and core grade-point averages (GPA).
- **Division II Eligibility:** Students must complete 16 core courses in high school. A minimum GPA of 2.0 is required, along with a combined minimum SAT score of 820 (critical reading and math only) or sum ACT score of 68 (English, math, reading, and science).

Meeting NCAA admission requirements does not guarantee admission into college – it only determines whether students may participate in Division I or Division II athletics during their freshman year.

CAREER PATHWAYS

WHITEHALL HIGH SCHOOL IS A CAREER PATHWAYS SCHOOL

What is Career Pathways?

Career Pathways guides students of all ages through a process to realistically prepare them for a promising future. Career Pathways is designed to provide all students with the academic and technical skills they need to reach their career goals.

How does it work?

Career Pathways utilizes **career awareness** throughout the elementary school years. The program teaches students about a broad range of careers through guest speakers, videos, and field trips.

Elementary Building Blocks for Careers, a teacher resource guide containing career lesson plans aligned with the state standards of education has also been developed to help teachers integrate career education into the elementary classroom.

Career exploration is the focus of the middle school years. Students are encouraged to explore their interests by gathering information about careers, including their requirements and the lifestyles they represent. Students utilize the **Middle School Planner**, a workbook designed to help both students and teachers explore careers and educational options. Additionally, **Career Cruising**, a web-based career exploration and planning tool is available to you and your child to explore career and college options and create a comprehensive career portfolio. The URL address is www.careercruising.com and a username and password may be obtained from your child's counselor or teacher.

Career preparation is a key component of Career Pathways and ninth graders, with the help of their parents, guidance counselors and some special tests choose one of four broad clusters of careers to pursue: **Arts and Humanities, Business & Communication Technology, Engineering & Industrial Technology, and Health & Human Services**.

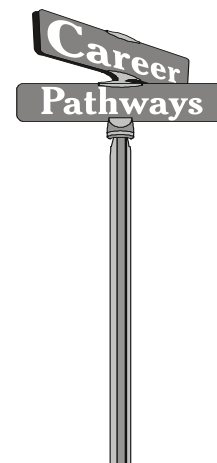
Then, they choose one of two pathways within that cluster:

- **College Prep**, which leads to jobs that require four or more years of college OR
- **Core**, which leads to jobs that require an associate's degree or advanced technical training.

High school students take both the standard required courses as well as courses recommended by their chosen cluster and pathway, which means some students get to take courses at the local career and technical institute. A **Secondary Resource Guide** has been developed to help teachers continue to integrate career education into the high school classroom through lesson plans aligned with the state standards of education.

Career Pathways aims to prepare students for careers based on their specific interests and abilities, so once they choose a career cluster, they're not locked-in. This flexibility, along with experiences like job shadowing days and internships, helps students decide if a certain career is right for them at a time when their choices won't cost them money.

Career development and life-long learning are the final phases of Career Pathways and are achieved when students continue preparing for their careers through post-secondary education. Students are encouraged to make learning a life-long priority.



CAREER FOCUSED EDUCATION – CAREER PATHWAYS

The curriculum at Whitehall High School is changing. Our goal is to meet the individual needs of each student while, at the same time, preparing them to find success as an adult. Career Pathways offers different avenues through which students can pursue an education leading to their future career goals. Realizing that the goals of each student are important, Career Pathways establishes a curriculum with two different, yet equal, programs of study. Both the “College Prep” and the “Core” pathways offer a rigorous, practical education to prepare them for the future.

HOW DOES CAREER PATHWAYS WORK?

Rather than the traditional “one-size-fits-all” curriculum which may not meet the needs of each student, Career Pathways provides two curriculum programs, each with specialized course offerings. Eighth grade students will begin on their “path” by setting career goals after being oriented in the four career areas:

- Arts and Humanities
- Business and Communications Technology
- Engineering/Industrial Technology
- Health and Human Services

Next, they will choose their academic focus by enrolling in the “College Prep” program (for students whose plans include study at a traditional four-year college or university) or the “Core” program (for students whose interests lie in the pursuit of a career through study at a vocational-technical school, trade school, business school, junior college, community college, or initial entry into the world of work). The student will then focus on a flexible career plan within his/her chosen path.

WHAT HAPPENS ONCE STUDENTS CHOOSE THEIR “PATH?”

In grades nine and ten, the “College Prep” and the “Core” programs both include a similar core curriculum. Students who change their mind can select a different Career Pathway.

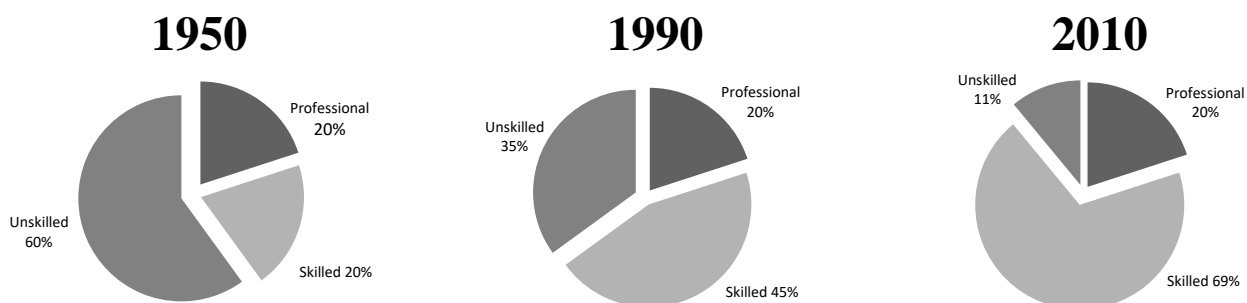
Once a student reaches his or her junior year, differences in the selected pathways become more evident. At that time, in addition to the core curriculum, students select from a list of electives within their chosen Career Pathway (Arts and Humanities, Business and Communications Technology, Engineering/Industrial Technology, Health and Human Services).

YOUR FUTURE - UNDERSTANDING THE PROBLEM:

In America, billions of dollars are spent each year to provide an education for children and youth, frequently stressing education as a goal in itself. Each June at graduation ceremonies, school officials routinely announce the percentage of students continuing their studies at post-secondary institutions. It was and is assumed that a good education will produce a positive and satisfying lifestyle. In general, this wisdom is still very valid. However, continued education without some vision of a future career goal may lead a student to years of aimless wandering through college programs, incurring extra expense and a delayed entry into the labor market. Students, families, and schools should be creating realistic career expectations based on achievement, personal choice, and future labor market demands. Consider these facts about the typical four-year college student in Pennsylvania:

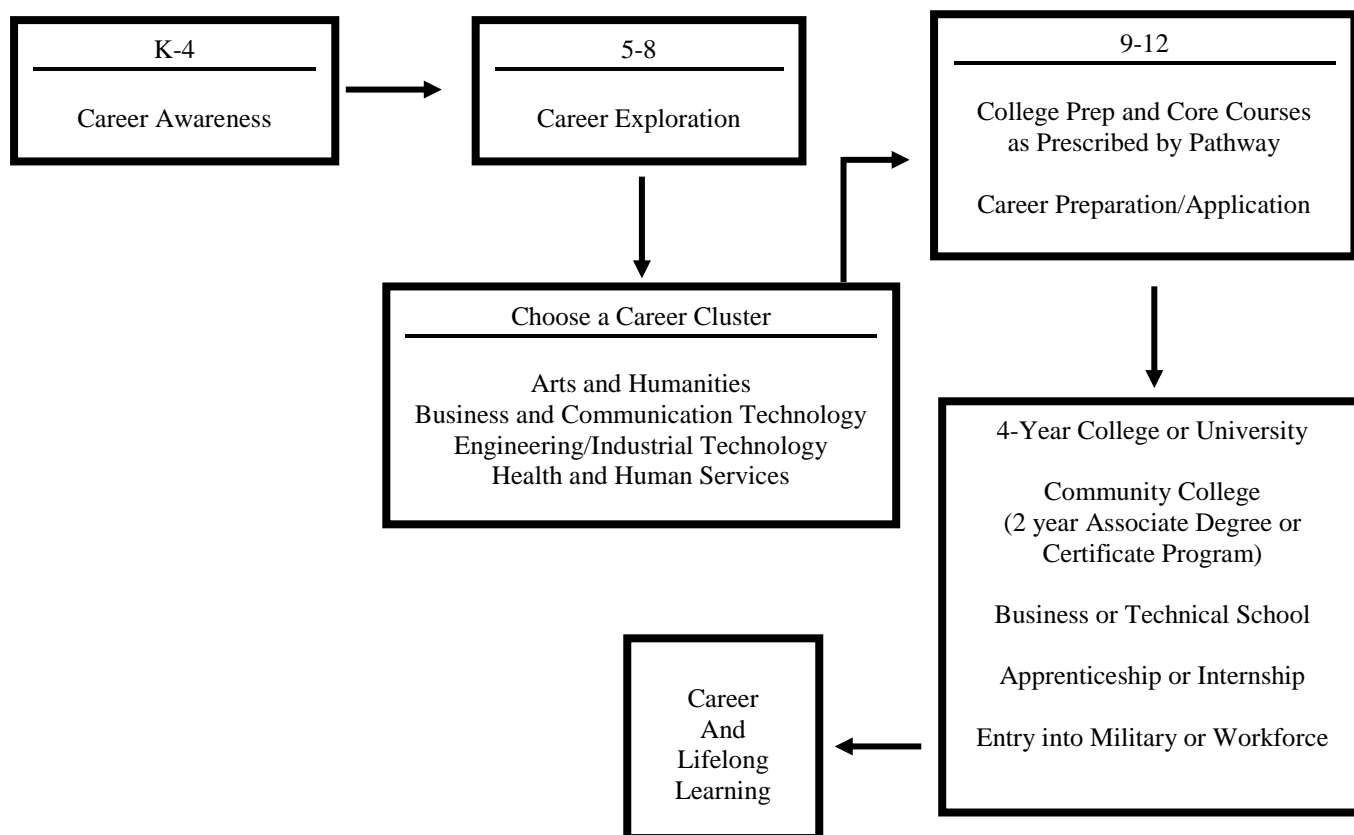
1. The most popular major for college freshmen is “UNDECLARED”.
2. Nearly 40% of all college freshmen do not complete their first year.
3. Less than 30% of all college freshmen earn a baccalaureate degree in four years. It takes six years for 50% of the students to earn a four year degree.
4. One out of every two college graduates cannot find work in their field. One out of three cannot find college level employment.

Shown below is data indicating major changes in the job skill requirements of our economy during the period 1950-2010 (Bureau of Labor Statistics).



The percentage of professional occupation positions requiring a four year degree has remained rather constant. Strong growth in the skilled area includes those positions requiring one to four years of post-secondary education. Currently the American skilled labor force has completed 1.6 years of schooling beyond high school. It appears safe to assume that future educational requirements for skilled workers will only increase with technological advances made by our society. For those individuals without skills or plans to acquire them, opportunities are decreasing and the outlook is gloomy. Unskilled opportunities are clearly moving to third world countries.

CAREER PATHWAYS: A TEMPLATE FOR SUCCESS



ARTS AND HUMANITIES PATHWAY

CAREER OPTION EXAMPLES FOR THE ARTS AND HUMANITIES CLUSTER**COLLEGE PREP**Current Career Titles*

Actor and Entertainer	Lawyer
Advertising Account Executive	Legislators
Anthropologist	Leisure Activities Coordinator
Archeologist	Librarians
Architect	Marriage & Mental Health Counselor
Art Directors	Musician
Art Therapists	Newscasters and Analysts
Artist	Package Designers
Athletes	Paralegals
Audio/Video Designer	Personnel Specialist
Audiovisual Production Specialist	Photographers
Broadcast Analysts, Journalists, and Newscaster	Political Scientist
Camera Operator	Producer
Career Coach	Production Managers
Career Counselors	Professors
Cinematographers	Psychiatric Social Worker
Clergy	Public Administrator
Clinical Psychologist	Public Relations Specialist
Coach and Sports Instructor	Publisher
College and University Faculty	Radio Announcers
Community Development Director	Real Estate Agent
Compliance Officers	Recreation Therapist
Composer	Religious Leader
Conductors	Reporters and Correspondents
Criminal Investigator	Residential Directors
Critics/Reviewers	School Administrator
Curator	School Psychologists
Dancer and Choreographer	Set & Stagecraft Designers
Desktop Publisher	Singers
Editors	Sociologists
Fashion Designers	Sound Mixers
Floral Designers	Sportscasters
Funeral Director	Teacher
General Managers & Top Executives	Telecommunications Specialists
Geriatric Service Worker	Translator
Graphic Designer	Umpires and Referees
Guidance Counselor	Urban and Regional Planner
Hearings Officer	Vocational and Educational Counselors
Human Services Worker	Vocational Education Teachers
Illustrator	Web Designers
Industrial Designer	Writer
Insurance Agent	
Interior Designer	
Journalist	
Judge/Magistrate	

*Source – Guidance Information System

CAREER OPTIONS EXAMPLES FOR THE ARTS AND HUMANITIES CLUSTER**CORE**Current Career Titles*

Actors	Interior Designers
Administrative Assistant	Interpreters
Advertising Artist	Jewelers and Silversmiths
Advertising Illustrator/Designer	Landscape and Groundskeepers
Artist	Leather Worker
Athletes	Library Assistant
Audio/Video Technician	Magicians
Autobody Repairers	Make-up Artist
Bakers and Pastry Chefs	Models
Barbers	Musician
Billing Operator	Nanny
Broadcast Technician	Nursery Workers
CADD Technician	Painters and Paperhanger
Camera Operators	Paralegal
Carpet Installers	Pest Controller
Coaches	Photographer
Compliance Officers	Photojournalist
Computer Aided Designer	Piano Technician
Computer Operator	Postal Worker
Correction Officer	Press Secretary
Cosmetologist	Producers
Costume Designer	Radio and Television Announcer/Technician
Customer Service Representative	Recording Engineers
Dance Instructors	Recreation Worker
Dancer, Choreographer	Screen Printer
Demonstrators and Promoters	Security Guard
Designer	Set Designers
Detective and Investigator	Sign Painter
Directory Assistance Operator	Singer
Editorial Assistant	Sport Instructors
Emergency Medical Technician	Tailor
Executive Chef	Teacher Aide/Paraprofessional
Fashion and Textile Designers	Telemarketer
Film Rental/Video Clerks	Transportation Specialist/Driver
Floral Designer	Travel Agent
Food Preparation Workers	Umpires/Referees
Frame Wirers	Visual Artist
Gardener and Grounds Keeper	Welders (Artistic)
Glaziers	Welfare Eligibility Worker
Graphic Artist	Woodworker
Hairstylists	
Hunters and Trappers	
Illustrator	
Industrial Designers	
Information Specialist	

*Source – Guidance Information System

BUSINESS AND COMMUNICATIONS TECHNOLOGY PATHWAY

CAREER OPTION EXAMPLES FOR THE BUSINESS AND COMMUNICATIONS TECHNOLOGY CLUSTER**COLLEGE PREP**Current Career Titles*

Accountant	Investment Banker
Actuary	Key Account Manager
Administrative Assistant	Knowledge Management Specialists
Administrative Service Manager	Loan Officers and Counselors
Advertising Sales Agents	Lobbyists
Agricultural Production Inspector	Logistics Manager
Athletic Managers	Lost Prevention Specialists
Auditor	Management Analyst
Bailiffs	Market Research Analysts
Brokerage Representative	Marketing Associate
Budget Analyst	Media Specialists
Business Development Manager	Medical and Health Services Managers
Business Service Sales Agent	Merchandising Buyer
Caterers	Network & Computer Systems Administrator
Chief Executive Officer	Operating Research Analyst
Claims Examiner/Officer	Operations Manager
Client Manager	PC Support Specialist
Clerical Supervisors and Managers	Personal Financial Advisor
Compliance Officer	Personnel Manager
Computer Operators	Professional Purchaser
Computer Programmer	Program Specialists, Employee Health Maintenance
Computer Software Engineer	Programmer (Application Developer)
Computer Systems Analyst	Public Administrators
Construction Managers	Public Relations Specialist
Cost Estimator	Purchasing Managers
Credit Analysis, Financial	Real Estate Appraisers
Customer Service Representative	Real Estate Brokers
Data Base Manager	Real Estate Managers
Economist	Real Estate Salesperson
Economist and Market Research Analyst	Restaurant & Food Service Manager
Education Administrators	Sales and Marketing Managers
Employment Interviewer	Sales Engineers
Entrepreneur	Sales Representatives
Farm Managers	Scientific Sales Representatives
Financial Analyst/Advisor	Securities/Financial Service Sales Person
Food Service and Lodging Manager	Securities/Investment Analyst
Gaming Operator	Statistician
General Manager and Top Executive	Systems Administrator
Health Care Facility Administrators	Tax Examiners, Collectors, and/or Revenue Agents
Health Club Managers	Tax Preparers
Hotel Managers and Assistants	Technical Writer
Human Resource Manager	Transportation Managers
Industrial Engineers	Underwriter
Industrial Production Managers	Vocational Education Teachers (Business)
Information Systems Analyst	Web Designer
Insurance Adjuster	Wholesale and Retail Buyers
Insurance Agent and Broker	

*Source – Guidance Information System

CAREER OPTION EXAMPLES FOR THE BUSINESS AND COMMUNICATIONS TECHNOLOGY CLUSTER**CORE**Current Career Titles*

Administrative Assistant
 Administrative Service Manager
 Advertising Clerks
 Advertising Sales Agent
 Auto Damage Insurance
 Appraiser
 Automobile, Truck or Trailer
 Rental Clerks
 Baggage Porters and Bellhops
 Bailiffs
 Bank Tellers
 Bill and Account Collector
 Billing, Posting & Calculating
 Machine Operators
 Blog Developer
 Bookkeeping and Accounting
 Clerk
 Brokerage Clerk
 Cashier
 Caterers
 Chauffeurs
 Claims Examiner
 Clerical Educational Assistants
 Clerical Supervisors and
 Managers
 Collections Assistant
 Communications Specialist
 Computer Operator
 Computer Programmer Assistant
 Computer Support Specialist
 Computer Technician
 Computer Trainer
 Construction Manager
 Cost Estimator
 Counter and Rental Clerk
 Court Clerks
 Credit Authorizer
 Credit Checker
 Database Technician
 Data Entry Operator
 Data Processing Equipment
 Repairer
 Desktop Publisher
 Directory Assistance Operators
 Door-to-Door Salespeople
 Drivers/Sales Workers

Employment Counselor
 Employment Interviewer
 Executive Secretary
 Farm Managers
 File Clerk
 Film/Video Rental Clerks
 Financial Planner
 Fish and Game Wardens
 Funeral Directors and Morticians
 General Office Clerks
 Health Care Facility
 Administrators
 Health Club Manager
 Hotel and Motel Desk Clerks
 Hotel and Motel Managers
 And Assistants
 Industrial Buyer
 Industrial Production Managers
 Insurance Adjuster
 Insurance Agents and Brokers
 Insurance Claim Clerks
 Interviewing Clerks, Survey
 Workers
 Library Assistants and Bookmobile
 Drivers
 License Clerks
 Loan and Credit Clerks
 Loan Interviewers
 Manufacturer's Representative
 Material Handler
 Media Assistant
 Medical Records Technicians
 Medical Secretaries
 Merchandise Manager
 Meter Readers, Utilities
 Municipal Clerks
 Network Administrator
 New Account Clerks
 Occupational Analyst
 Office Automation Technician
 Order Clerks
 Outside Food Service
 Paralegal
 Parts Salespersons
 Payroll Clerk
 PC Technician
 Personnel Clerk

Personal Shoppers
 Plant Operator
 Police Patrol Officers
 Police, Fire, and Ambulance Dispatchers
 Postmasters
 Printer/Press Operator
 Private Child Care Workers
 Production and Expediting Clerks
 Proofreader
 Public Administrators
 Purchaser/Buyer
 Purchasing Agents
 Quality Control Inspector
 Railroad Conductors and Yardmasters
 Real Estate Appraisers
 Real Estate Brokers
 Real Estate Managers
 Receptionist
 Reservation Ticket Agents
 Restaurant & Food Service Manager
 Restaurant Hosts and Hostesses
 Retail Sales Person
 Sales and Marketing Managers
 Sales Representatives
 Scientific Sales Representatives
 Secretary: Executive, Legal, Medical
 Stenographer
 Stock Clerk
 Switchboard Operators
 Tax Preparers
 Telecommunications
 Telephone Operators
 Telephone Solicitors
 Teller
 Ticket Brokers
 Title Examiners
 Transportation Manager
 Travel Agents
 Travel Clerk
 Typists
 Underwriters
 Waiters and Waitresses
 Webpage Designer
 Welfare Eligibility Workers
 Wholesale and Retail Buyers
 Word Processor

*Source – Guidance Information System

ENGINEERING/INDUSTRIAL TECHNOLOGY PATHWAY

CAREER OPTION EXAMPLES FOR THE ENGINEERING/INDUSTRIAL TECHNOLOGY CLUSTER**COLLEGE PREP**Current Career Titles*

Aerospace Engineer
Agricultural Engineers
Air Traffic Controller
Aircraft Pilots and Flight Engineers
Application Engineer
Applied Mathematician
Architects
Astronomers
Camera Operators
Captains and Fishing Vessel Officers
Chemical Engineer
Chemical Technicians
Chemist
Civil and Traffic Engineer
Clerical Supervisors and Managers
Commercial Pilot
Compliance Office
Computer Software Engineer
Computer Systems Analyst
Construction and Building Inspectors
Construction Managers
Construction Superintendent
Cost Estimators
Data Base Administrators
Data Base Design Analysts
Developmental Engineers
Electrical and Electronic Engineer
Engineering, Math and Science Managers
Environmental Engineer
Environmental Scientist
Flight Engineer
Forensic Computer Analyst
General Managers and Top Executives
Geologist
Geophysicists
Industrial Engineer
Industrial Production Manager
Landscape Architects
Locomotive Engineer
Logistics Analyst
Logistics Engineer
Management Analysts and Consultants

Marine Architects
Market Research Analysis
Marketing, Advertising, and P/R Managers
Material Engineer
Mathematical Scientists
Mechanical Engineer
Metal, Ceramic, and Material Engineer
Mining Engineer
Nanobiologist
Network Systems Analyst
Nuclear Engineer
Operations Research Analysis
Petroleum Engineer
Physicists
Pilot
Pilot and Flight Engineer
Production Engineers
Purchasing Agents
Real Estate Managers
Safety Engineers
Sales and Marketing Supervisor
Sales Engineers
Ship Captain
Ship Engineers
Ship, Boat, and Barge Mates
Sound Mixers
Statisticians
Surveying and Mapping Scientist
Systems Analyst
Technical Writer
Tool Numerical Control programmers
Transportation Inspector
Transportation Manager
Urban Planner
Veterinarians and Veterinary Inspectors
Vocational Education Teachers
Water Vessel Captains
Web Designer
Wine Makers

*Source – Guidance Information System

CAREER OPTION EXAMPLES FOR THE ENGINEERING/INDUSTRIAL TECHNOLOGY CLUSTER**CORE**Current Career Titles*

Agricultural Technician
Aircraft Mechanics
Aircraft Pilots and Flight Engineers And Graders
Animal Breeders
Automotive Body Repairer
Automotive Mechanics
Biological and Agricultural Food Technicians
Bookkeeping, Accounting and Auditing Clerks
Brick/Block Mason
Bridge and Lock Tenders
Broadcast Technicians
Building Maintenance Repairer
Bus Driver
Butcher/Meat Cutter
Cabinetmaker
Camera Operators
Captains and Fishing Vessel Officers
Carpenter
Cashier
Chefs
Chemical Plant and System Operators
Civil Engineering Technicians
Combination Machine Tool Operators
Compliance Officers
Compositors, Typesetters and Arrangers
Computer Engineers
Computer Programmers
Construction Managers
Cost Estimator
Custom Tailors, Seamstresses, & Dressmakers
Data Base Administrators
Dental Laboratory Technicians
Diesel Technician
Dietetic Technicians
Drafters
Drill Operators
Drilling & Boring Machine Tool Setters
Driver/Sales Workers
Drywall Installers
Electrical & Electronic Engineering Technicians
Electrician: Industrial, Commercial, Residential
Electromedical & Biomedical Equipment Repairers
Electronics Technician
Environmental Science Technician

Facilities Technician
Financial Analysts, Statistical
Fire Inspectors
Garment Sewing Machine Operators
Gas Appliance Installers and Repairers
Heavy Equipment Technician
HVAC Technician
Industrial Engineering Technician
Jeweler and Silversmith
Landscape Contractor
Laundry and Dry Cleaning
Library Assistants and Bookmobile Drivers
Machine Operators
Machinists
Marketing, Advertising, and P/R Managers
Mechanic
Mechanical Engineering Technicians
Medical and Laboratory Technicians
Medical Assistants
Metal Fabricators
Nuclear Medicine Technologists
Office Equipment Service Technician
Opticians
Painters and Paperhangers
Phone and TV Line Installer
Photographers
Plumbers, Pipefitters and Steamfitters
Power Line Installers and Repairers
Printing Press Operators
Production Supervisors
Real Estate Managers
Recording Engineers
Restaurant Cooks
Sewing Machine Operators
Ship Pilots
Small Engine Specialist
Sound Technician
Stone Masons
Surveyors and Mapping Scientists
Truck Drivers
Vocational Education Teachers
Web Designer
Welders and Cutters
Woodworking Machine Operators

*Source – Guidance Information System

HEALTH AND HUMAN SERVICES PATHWAY

CAREER OPTION EXAMPLES FOR THE HEALTH AND HUMAN SERVICES CLUSTER

COLLEGE PREP

Current Career Titles*

Acupuncturist	Firefighting and Prevention Supervisors	Physicists
Administrators	Foresters and Conservation Scientists	Podiatrists
Agricultural and Food Scientists	Funeral Director/Mortician	Police Detective
Alcohol and Drug Abuse Counselors	Geologists	Police Officer
Anesthesiologists	Geophysicists	Program Specialists, Employee Health Maintenance
Animal Breeders	Gerontologists	Psychiatrist
Animal Treatment Investigators	Guidance Counselor	Psychologists
Art Therapists	Health Care Facility	Public Administrators
Astronomers	Health Club Managers	Radiation Therapy Technologists
Athletic Trainers	Hearings Officers	Radiologic Technologists
Atmospheric Scientist	Horticulturists	Radiologist
Auto Damage Insurance Appraisers	Hospital and Health Care Administrator	Recreation Workers
Bailiffs	Insurance Investigators and Adjusters	Recreational Therapists
Biochemist	Interpreter	Registered Nurses
Biological Scientist	Judges and Magistrates	Research Scientist
Biomedical Engineer	Lawyers	Residential Counselors
Career Placement Service	Librarians	Respiratory Therapists
Counselors	Life Science Technicians	Restaurant & Food Service Managers
Chemists	Loan Officers and Counselors	School Administrator
Chiropractors	Lobbyists	School Counselor/Psychologists
Clergy	Management Analysts and Consultants	School Teacher
Clerical Supervisors and Managers	Mathematical Scientists	Secondary School Teachers
College/University Deans/Directors	Medical and Health Services Managers	Sheriffs and Deputy Sheriffs
Compliance Officers	Medical and Laboratory Technologists	Social Workers
Computer Engineers	Medical and Psychiatric Social Workers	Sociologists
Computer Programmers	Meteorologists	Speech Language Pathologists & Audiologists
Computer Security Coordinators	Molecular Biologist	Statisticians
Computer Systems Analysts	Music Therapists	Substance Abuse and Behavioral Disorder Counselor
Conservation Scientist	Nuclear Medicine Technologists	Surgeon
Criminal Investigators	Nursing	Surveyors and Mapping Scientists
Dance Therapists	Nutritionist	Tax Examiners, Collectors, and/or Revenue Agents
Data Base Administrators	Occupational Therapists	Translators
Data Base Design Analysts	Occupational Therapy Assistants or Aides	Toxicologist
Data Communications Analysts	Oceanographers	Urban and Regional Planners
Dental Hygienists	Operations Manager	Veterinarians and Veterinary Inspectors
Dentists	Operations Research Analysts	Vocational and Educational Counselors
Deputy United States Marshals	Optometrists	Vocational Rehabilitation Counselor
Dietitians/Nutritionists	Paralegals	
Directors, Religious Activities & Education	Pediatricians	
Elementary School Teachers	Personal & Home Health Care Aides	
Engineering, Math and Science Managers	Pharmacists	
Farm Managers/Farmers	Physical Therapists	
	Physician and Surgeons	
	Physicians Assistant	

*Source – Guidance Information Systems

CAREER OPTION EXAMPLES FOR THE HEALTH AND HUMAN SERVICES CLUSTER

CORE

Current Career Titles*

Agricultural Production Inspectors	Floral Designer	Pharmacy Technician
Animal Breeders	Forest/Conservation Workers	Photographers
Animal Caretakers	Funeral Directors and Morticians	Physical Therapy Assistants
Animal Treatment Investigators	Game Warden	Physician Assistants
Auto Damage Insurance Appraisers	Gerontologists	Police and Detective Supervisors
Baggage Porters and Bellhops	Guards and Watch Guards	Police Detectives
Bailiffs	Hairdressers and Cosmetologists	Police Officer
Biological and Agricultural Food Technicians	Health Care Facility Administrators	Police, Fire and Ambulance Dispatchers
Bread and Pastry Chef	Health Club Managers	Postmasters
Bus Drivers	Health Unit Coordinator	Private Child Care Workers
Butchers and Slaughterers	Home Healthcare Aides	Private Detectives and Investigators
Cardiovascular Technologists	Hotel and Motel Desk Clerk	Professional Nanny
Chauffeurs	Human Services Workers	Psychiatric Aides
Chemical Technicians	Indexers	Psychiatric Technicians
Child Care Assistants/Workers	Industrial Production Managers	Public Administrators
Clerical Supervisors and Managers	Insurance Investigators and Adjusters	Radiation Therapy Technologists
Computer Security Coordinators	Interpreters	Radiologic Technologists
Correction Officers	Interpreters, for the Deaf	Railroad Conductors and Yardmasters
Cosmetologist	Landscape and Grounds Keeping Laborers	Recreation Workers
Counter Clerks	Landscape Gardeners and Grounds Managers	Registered Nurses
Credit Checkers	Legislators	Respiratory Therapists
Criminal Investigators	Library Assistants and Bookmobile Drivers	Restaurant & Food Service Managers
Crossing Guards	Library Technical Assistants	Restaurant Hosts and Hostesses
Custodian/Janitor/Cleaner	Licensed Practical Nurses	Safety Engineers
Custom Tailor and Seamstress	Life Science Technicians	School Bus Drivers
Customer Service Representative	Logging Tractor Operators	Security Personnel
Dental Assistants/Hygienists	Make-Up Artist	Sheriffs and Deputy Sheriffs
Dental Technician	Massage Therapist	Ship, Boat, and Barge Mates
Deputy United States Marshals	Mathematical Technicians	Short Order Cook
Drafter: Mechanical, Architectural	Medical and Laboratory Technicians	Skin Care Specialist
Driver/Sales Workers	Medical Assistants	Social Welfare Service Aides
EKG Technicians and Technologists	Medical Records Technician	Soil, Turf, and Range Manager
Electrical & Electronic Engineering Technicians	Nail Technician	Sous-Chef
Electromedical & Biomedical Equipment Repairers	Nanny	Sports Instructors
Emergency Medical Technicians	Nuclear Medicine Technologists	Subway and Streetcar Operators
Executive Chef	Nursery Workers	Surgical Technician
Fallers and Buckers	Nursing Aides, Orderlies, and Attendants	Surveyors and Mapping Scientists
Farm Managers	Occupational Therapy Assistants or Aides	Tailor/Seamstress
Farmers	Optician	Taxi Drivers
Fast Food Service Worker	Order Clerks	Teacher Assistant
Fire Fighter	Paralegals	Translators
Fire Inspectors	Pastry Chef	Transportation Managers
Fish and Game Wardens	Personal Shoppers	Travel Agent
Flight Attendants	Personal Trainers	Veterinary Technologist
	Pest Controllers and Assistants	Waiters and Waitresses
	Petroleum Technicians and Technologists	Waste Treatment Technician

*Source – Guidance Information Systems

WHITEHALL HIGH SCHOOL

Career Pathways Planning Guide

Name		Career Pathway	College Prep [X]
Career Cluster	Arts and Humanities [] Business Communications Technology[]		Core []
	Engineering/Industrial Technology [] Health and Human Services []		

Required Courses	Grade 9	Grade 10	Grade 11	Grade 12
English	English 9 (CP or Honors)	English 10 (CP or Honors)	English 11(CP, Honors) or AP Language & Composition	Cont. & World Lit. (CP, Honors) English Research & Composition Dual Enrollment, or AP Literature & Composition
Math	Algebra 1 or Geometry and/or Algebra 2 (CP or Honors)	Geometry, Algebra 2, or Trigonometry/Algebra 3 (CP or Honors)	Algebra 2, Principles of Math, Trigonometry/ Algebra 3, or Calculus. (CP or Honors)	Follow Math Sequence
Science	CP Environmental Science or Honors Biology	Biology (CP or Honors)	Chemistry (CP, Honors, AP)	Physics or other Science Course (CP or Honors, AP,)
Social Studies	American Studies 1 (CP or Honors)	American Studies 2 (CP, Honors, AP)	Global Studies (CP, Honors, AP)	American Government/Econ. (CP, Honors, AP)
Wellness/Fitness	Physical Education 1/Health 1		Second PE Course/Health 2	
Electives Exploratory Options	Electives Related to Career Interest	Electives Related to Career Interest	Electives Related to Career Interest	Electives Related to Career Interest
	World Language 1	World Language 2	World Language 3	Honors World Language 4
		Career Exploration & Technology – Required Elective		
	Students may select from appropriate career cluster electives.	Students may select from appropriate career cluster electives.	Students may select may from appropriate career cluster electives or double in core curriculum subject areas.	Students may select from appropriate career cluster electives or double in core curriculum subject areas.

WHITEHALL HIGH SCHOOL

Career Pathways Planning Guide

Name		Career Pathway	College Prep []
Career Cluster	Arts and Humanities [] Business Communications Technology []		Core [X]
	Engineering/Industrial Technology [] Health and Human Services []		

Required Courses	Grade 9	Grade 10	Grade 11	Grade 12
English	Core English 9	Core English 10	Core English 11	Core Contemporary & World Lit.
Math	Core Algebra 1 or Algebra 1 →	Core Geometry	Math for Modern Living	Consumer Math
	Core Algebra 1A →	Core Algebra 1B	Core Geometry	Math for Modern Living
Science	Core Environmental Science	Core Biology	Core Chemistry	Core Physics, Zoology or Other Science Electives
Social Studies	Core American Studies 1	Core American Studies 2	Core Global Studies	Core American Government/Economics
Wellness/Fitness	Physical Education 1/Health 1		Second PE Course/Health 2	
Electives Exploratory Options	Electives Related to Career Interest	Electives Related to Career Interest	Electives Related to Career Interest	Electives Related to Career Interest
		Career Exploration & Technology – Required Elective		
	Students may select from appropriate career cluster electives, World Languages, or continue their career choice at the Lehigh Career and Technical Institute.	Students may select from appropriate career cluster electives, World Languages, or continue their career choice at the Lehigh Career and Technical Institute.	Students may select from appropriate career cluster electives, World Languages, or continue their career choice at the Lehigh Career and Technical Institute.	Students may select from appropriate career cluster electives, World Languages, or continue their career choice at the Lehigh Career and Technical Institute.

WHITEHALL HIGH SCHOOL
Career Pathways Planning Guide

Name		Career Pathway	College Prep []
Career Cluster	Arts and Humanities [] Engineering/Industrial Technology [] Business Communications Technology [] Health and Human Services []		Core []

Required Courses	Grade 9	Grade 10	Grade 11	Grade 12
English				
Math				
Science				
Social Studies				
Wellness/Fitness				
Electives Exploratory Options	Electives Related to Career Interest	Electives Related to Career Interest	Electives Related to Career Interest	Electives Related to Career Interest

COURSE SELECTION PROCESS

PRE-REGISTRATION

The process for course selection begins at the end of January of each academic year. Students will receive a Course Selection Sheet during a scheduled class meeting. The Course of Study Catalog will be posted on the high school website for students and parents/guardians to access full course descriptions. High school administration and counselors will explain the course selection process, any changes to the process, and the new courses and educational opportunities that are available to students.

After these scheduled meetings, students are required to discuss their career pathway with their parent/guardian. In addition, students are also encouraged to communicate with their teachers when selecting courses, especially in the core subject areas of Math, Science, English, and Social Studies. Core subject area and world language teachers will initial next to the recommended course on a student's course selection sheet. Students should fill out the Course Selection Sheet, sign the form and obtain a parental/ guardian signature. All completed forms should be returned to their English teacher by the designated deadline.

REGISTRATION (Students Entering Grades 10 – 12)

Once forms are submitted, WHS counselors will meet with each student individually during their scheduled English class to review the course requests that have been selected by the student and the parent/guardian. During this meeting, students will participate in the scheduling process by discussing their course requests and how the requests are aligned with the student's graduation plan. At this time, counselors will enter in PowerSchool core and elective course requests totaling a maximum of 8 credits. At the end of the meeting, students will receive a paper copy of the course request information entered into PowerSchool to share with their parents/guardians.

Counselors will review the student's core and elective courses and ensure that alternative elective courses are selected in the event that the student's first choice electives cannot be scheduled. Although every effort is made, electives cannot be guaranteed.

Every effort is made to meet with students on an individual basis. Students who do not meet the deadline for registration or who do not meet with their counselors will have their courses selected by the counselor.

COURSE REQUESTS

Once final selections are made, all course requests are tallied. The number of sections of a particular course and the teachers' assignments are determined by the students' course requests. Every attempt will be made to give students the courses they select, or if necessary, an alternate. The schedule will be developed over a period of several months with the objective of meeting every student's course requests. Although adjustments are made, not all requests can be honored for a variety of reasons. Students should choose their course selections carefully.

ADVANCED PLACEMENT/HONORS/DUAL ENROLLMENT

Enrollment in Advanced Placement, honors, or college dual enrollment courses requires a teacher recommendation/signature on the Course Selection Sheet. These courses will be rigorous in nature with high expectations in achievement. Some dual enrollment courses may require a prerequisite placement exam.

SCHEDULE CHANGES

If course selections are made carefully, there should be minimal changes to any requests made. If an unusual situation occurs, **the schedule change must be made by June 30th. Any schedule change requests must be accompanied by a parent/guardian letter and returned to the High School Counseling Office.**

SCHEDULING PROCESS TIMELINE

January	<p>Letters sent to parents/guardians electronically outlining the scheduling process and inviting them to the Academic Planning Night.</p> <p>Starting on <u>Friday, January 29, 2021</u>, Grade-level sessions will be conducted to provide an overview of the WHS scheduling process for students entering grades 10 – 12. Instruction sheets and course selection forms will be distributed to students. The Whitehall High School Course Catalog will be made available on high school website.</p>
February	<p><u>STUDENTS ENTERING GRADES 10 – 12:</u> An Academic Planning Night for parents of students entering grades 10 – 12 will be held by <i>Whitehall High School</i> virtually on <u>Wednesday, February 3, 2021</u> at <u>6:30 PM</u>.</p> <p>Completed course selection forms must be signed by parent/guardian and student and returned to the student's WHS English teacher by <u>Wednesday, February 10, 2021</u>.</p> <p><u>STUDENTS ENTERING GRADE 9:</u> Course selection materials and teacher recommendations distributed to students from the Middle School Counseling Office.</p> <p>An Academic Planning Night for parents of students entering grade 9 will be held virtually By <i>Whitehall-Coplay Middle School</i> on <u>Thursday, February 4, 2021</u> at <u>6:30 PM</u>.</p> <p>Completed course selection forms must be signed by parent/guardian and student and returned to the WCMS counseling office at a date to be determined by the WCMS.</p>
February/March	<p>Counselors will meet individually with students who have returned their completed signed form to finalize the course selection and enter requests into PowerSchool. Any student who does not return a signed form or chooses not to meet with their counselor will be given a schedule by their counselor.</p>
March	<p>Course selection process is complete; notification from district to LCTI with final numbers for full-time Academic Center.</p> <p>Tallies are run to determine the course offerings, number of sections, and staff needed. Begin development of the Whitehall High School master schedule.</p>
May/June	<p>Final notification of courses selected is sent home. Corrections must be sent to the student's counselor by <u>June 30, 2021</u>.</p>
*June 30	<p>Last day to make course request changes for valid reasons. Any requests to changes a Course after this date must be accompanied by a parent letter and are made at the sole discretion of administration.</p>
July – August	<p>Finalization of the Whitehall High School master schedule. Once finalized, students will receive a copy of their tentative schedule for review prior to the start of the new school year.</p>

MASTER LIST OF COURSES OFFERED AT WHITEHALL HIGH SCHOOL

Department/Course	Codes	Grade	Credits
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Health & Physical Education

1F Physical Education 1 (Female)	F	9	0.5
2M Physical Education 1 (Male)	M	9	0.5
3W Physical Education 1 (Co-Ed)	F,M	9	0.5
4W Lifetime Sports (Co-Ed)	F,M	10,11,12	0.5
5W Personal Fitness (Co-Ed)	F,M	10,11,12	0.5
6W Team Sports (Co-Ed)	F,M	10,11,12	0.5
10W Strength & Conditioning (Co-Ed)	F,M,EA,EH	10,11,12	0.5
9W Lifeguarding/CPR/First Aid	F,M	10,11,12	0.5
10X Adapted Physical Education	F,M	9,10,11,12	0.5
13W Concepts of Sport Science	F,M,EA,EH	10,11,12	0.5
20C Health 1		9	0.5
21C Health 2		10,11,12	0.5

Career Education

90E Careers in Education Level 1	EA	11,12	1.0
91E Careers in Education Level 2	EA	12	1.0

English

10160B Core English 9	B	9	1.0
*10160A CP English 9	A	9	1.0
*10160H Honors English 9		9	1.0
10162B Core English 10	B	10	1.0
*10162A CP English 10	A	10	1.0
*10162H Honors English 10		10	1.0
10164B Core English 11	B	11	1.0
*10164A CP English 11	A	11	1.0
*10164H Honors English 11		11	1.0
*10114H Advanced Placement Lang. & Comp		11	1.0
10168B Core Contemp. & World Lit.	B	12	1.0
*10168A CP Contemp. & World Lit.	A	12	1.0
*10168H Honors Contemp. & World Lit		12	1.0
*10112H Advanced Placement Lit. & Comp	EU	12	1.0
*10113C Research & Composition Dual Enrollment-Honors		12	1.0
10115W Studio & Media Studies 1	EA,EB,EE	10,11,12	0.5
10116W Studio & Media Studies 2	EA,EB,EE	11,12	0.5
10117E Journalism 1	EA,EB,EE	10,11	1.0
10118E Journalism 2	EA,EB,EE	11,12	1.0
10120E Yearbook Production	EA,EB	10,11,12	1.0
10121W Mythology	EA	10,11,12	0.5
*10131D Speech/Public Speaking/Dual-Honors	EA	11,12	1.0
10132W Creative Writing	EA	11,12	0.5

Language Instruction Educational Program for English Learners

88X English as a Second Language	A,B	9,10,11,12	1.0
87W EL Enrichment	A,B	9,10,11,12	0.5

CODES

A	College Prep
B	Core
EA	Recommended elective for Arts and Humanities Cluster
EB	Recommended elective for Business Communications Cluster
EE	Recommended elective for Engineering/Industrial Cluster
EH	Recommended elective for Health and Human Services Cluster
EU	Recommended elective for all career clusters
F	Female
K	Courses are linked and must both be taken the same semester
M	Male

Department/Course	Codes	Grade	Credits
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Social Studies

20202B	Core American Studies 1.....	B.....	9.....	1.0
*20201A	CP American Studies 1.....	A.....	9.....	1.0
*20204H	Honors American Studies 1.....		9.....	1.0
20205B	Core American Studies 2.....	B.....	10.....	1.0
*20204A	CP American Studies 2.....	A.....	10.....	1.0
*20206H	Honors American Studies 2.....		10.....	1.0
*20212H	Advanced Placement United States History.....	EA,EB.....	10,11,12.....	1.0
20208B	Core Global Studies.....	B.....	11.....	1.0
*20207A	CP Global Studies.....	A.....	11.....	1.0
*20213H	Honors World History.....	EA,EB.....	11.....	1.0
*20213D	World History Dual (LCCC)-Honors.....	EA,EB.....	11.....	1.0
*20214H	Advanced Placement World History.....	EA,EB.....	11,12.....	1.0
20211B	Core American Government/ Consumer Economics B.....	B.....	12.....	1.0
*20210A	CP American Government/ Consumer Economics.....	A.....	12.....	1.0
*20230H	Honors American Government/ Consumer Economics.....		12.....	1.0
*20222A	Advanced Placement United States Government and Politics.....	EA,EB.....	11,12.....	1.0
*20228H	Advanced Placement Microeconomics/Macroeconomics.....	EA,EB.....	11,12.....	1.0
*20215E	Psychology.....	EU.....	11,12.....	1.0
20224W	Abnormal Psychology.....	EU.....	11,12.....	0.5
*20227H	Advanced Placement Psychology.....	EU.....	11,12.....	1.0
*20216E	Sociology.....	EA, EB.....	11,12.....	1.0
*20217E	Basic Legal Concepts 1.....	EA,EB.....	10,11,12.....	1.0
20218E	Basic Legal Concepts 2.....	EA,EB.....	11,12.....	1.0
*20219D	Issues in 20 th Century America/ LCCC Dual Enrollment-Honors.....	EA,EB.....	11,12.....	1.0
*20219E	Issues in 20 th Century America.....	EA,EB.....	11,12.....	1.0
20223W	Infl. of Sports on American Society 1.....	EU.....	10,11,12.....	0.5
20225W	Infl. of Sports on American Society 2.....	EU.....	10,11,12.....	0.5
20226W	Contemporary World Issues.....	EU.....	10,11,12.....	0.5

World Languages

*30301E	German 1.....	EU.....	9,10,11,12.....	1.0
*30302E	German 2.....	EU.....	10,11,12.....	1.0
*30303E	German 3.....	EU.....	11,12.....	1.0
*30304H	Honors German 4.....	EU.....	11,12.....	1.0
*30311E	Spanish 1.....	EU.....	9,10,11,12.....	1.0
*30312E	Spanish 2.....	EU.....	10,11,12.....	1.0
*30313E	Spanish 3.....	EU.....	11,12.....	1.0
*30314H	Honors Spanish 4.....	EU.....	11,12.....	1.0

Mathematics

40402X	Core Algebra 1.....	B.....	9,10.....	2.0
40400B	Core Algebra 1A.....	B.....	9,10.....	1.0
40403B	Core Algebra 1B.....	B.....	10.....	1.0
*40401X	CP Algebra I.....	A.....	9,10.....	1.0
*40404A	Accelerated Algebra 1.....		9.....	1.0
40422B	Core Geometry.....	B.....	10,11,12.....	1.0
*40421X	CP Geometry.....	A.....	9,10,11,12.....	1.0
*40423H	Honors Geometry.....		9,10,11,12.....	1.0

CODES

A College Prep

B Core

EA Recommended
elective for Arts
and Humanities
ClusterEB Recommended
elective for
Business
Communications
ClusterEE Recommended
elective for
Engineering/
Industrial
ClusterEH Recommended
elective for
Health and
Human Services
ClusterEU Recommended
elective for all
career clusters

F Female

K Courses are linked
and must both be
taken the same
semester

M Male

Department/Course	Codes	Grade	Credits
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Mathematics (Cont.)

*40410X	CP Algebra 2.....	A	9,10,11,12..... 1.0
*40411H	Honors Algebra 2.....	9,10,11,12..... 1.0
40426B	Math for Modern Living	EB, EE	11,12..... 1.0
40462B	Consumer Math	EB,EE	12..... 1.0
40427X	Principles of Mathematics.....	B.....	11,12..... 1.0
*40431A	CP Trigonometry/Algebra 3.....	EB,EE	10,11,12..... 1.0
*40432H	Honors Trigonometry/Algebra 3.....	EB,EE	10,11,12..... 1.0
*40441X	Calculus	EB,EE	11,12..... 1.0
*40451H	Advanced Placement Calculus AB.....	EB,EA	11,12..... 1.0
*40452H	Advanced Placement Calculus BC.....	EB,EA	12..... 1.0
*40461E	CP Probability and Statistics	EB,EE,EH	11,12..... 1.0
*40461D	Probability and Statistics Dual Enroll.	EB,EE,EH	11,12..... 1.0
*40461A	Advanced Placement Statistics	EB,EE,EH	10,11,12..... 1.0
40470W	Graphing Calculator Coding -STEM	EU	10,11,12..... 0.5

Computer Science

60625W	Computer Science Discoveries.....	EU	9,10..... 0.5
60627W	Creating Mobile Apps	EU	9,10,11,12..... 0.5
60628W	The Business of Game Development	EU	9,10,11,12..... 0.5
60629W	The Business of Game Development 2	EU	10,11,12..... 0.5
40470W	Graphing Calculator Coding -STEM	EU	10,11,12..... 0.5
40469W	Introduction to Computer Programming	EU	9,10,11,12..... 0.5
40473W	Computer Programming Using C++	EU	10,11,12..... 0.5
40474W	Computer Program Using Java	EU	10,11,12..... 0.5
*40476H	Honors Computer Science Principles.....	EU	10,11,12..... 1.0
*40477H	Advanced Placement CS Principles	EU	10,11,12..... 1.0
*40478H	Advanced Placement Computer Science A.....	EU	10,11,12..... 1.0
60633W	Web Design 1	EB	10,11,12..... 0.5
60634W	Web Design 2	EB	11,12..... 0.5

Science

50541B	Core Environmental Science	B.....	9..... 1.0
*50541A	CP Environmental Science.....	A	9..... 1.0
*50503H	Honors Earth Science.....	9..... 1.0
50512B	Core Biology	B.....	10..... 1.0
*50511A	CP Biology.....	A	10..... 1.0
*50513H	Honors Biology	9,10..... 1.0
*50514H	Advanced Placement Biology	A	11,12..... 2.0
50522B	Core Chemistry	B.....	11,12..... 1.0
*50521A	CP Chemistry	A	11,12..... 1.0
*50523H	Honors Chemistry 1	10,11,12..... 1.0
*50524H	Honors Chemistry 2	A	11,12..... 1.0
*50525H	Advanced Placement Chemistry	A	11,12..... 2.0
*50532B	Core Physics.....	B,EB,EE,EH	11,12..... 1.0
*50532A	CP Physics	A,EB,EE,EH,	11,12..... 1.0
*50531H	Honors Physics.....	A,EB,EE,EH	11,12..... 1.0
*50533H	Advanced Placement Physics 1	A,EB,EE,EH	11,12..... 2.0
*50544X	Zoology – PA Wildlife.....	EH	11,12..... 1.0
*50541X	Environmental Science	EH	11,12..... 1.0
*50547A	Forensic Science	EH	11,12..... 1.0
*50550A	Human Biology	EH	10,11,12..... 1.0
*50552H	Honors Anatomy and Physiology	EH	10,11,12..... 1.0
*50551H	Honors Genetics.....	EE,EH	10,11,12..... 1.0
50545H	Honors Emerging Health Prof.....	A,EH	12..... 4.0

CODES

A College Prep

B Core

EA Recommended
elective for Arts
and Humanities
ClusterEB Recommended
elective for
Business
Communications
ClusterEE Recommended
elective for
Engineering/
Industrial
ClusterEH Recommended
elective for
Health and
Human Services
ClusterEU Recommended
elective for all
career clusters

F Female

K Courses are linked
and must both be
taken the same
semester

M Male

Department/Course	Codes	Grade	Credits
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Business

60600W	Career Exploration and Technology	EB	10.....0.5
60604W	Digital Literacy	EU	9,10.....0.5
60625W	Computer Science Discoveries.....	EU	9,10.....0.5
60627W	Creating Mobile Apps	EU	9,10,11,12.....0.5
60628W	The Business of Game Development	EU	9,10,11,12.....0.5
60629W	The Business of Game Development 2	EU	10,11,12.....0.5
60633W	Web Design 1	EB	10,11,12.....0.5
60634W	Web Design 2	EB	11,12.....0.5
60601W	Introduction to Business.....	EB	9,10.....0.5
60621X	Accounting 1	EB	9,10,11,12.....1.0
60622X	Accounting 2	EB	10,11,12.....1.0
*60602X	Business Law	EB	10,11,12.....1.0
60640W	Entrepreneurship	EB	10,11,12.....0.5
60605W	Sports and Entertain. Marketing.....	EB	10,11,12.....0.5
60620E	Personal Finance.....	EB	11,12.....1.0

Technology & Engineering

70700W	Intro to Engin Design, Draft, & CADD	EE	9,10,11,12.....0.5
70701W	Innovation Through Engineering	EE	9,10,11,12.....0.5
70702W	Introduction to Electronics & Robotics.....	EE	9,10,11,12.....0.5
70705W	Found. of Mechanical Engineering.	EE	9,10,11,12.....0.5
70706W	Introduction to Wood Manufacturing.....	EE	9,10,11,12.....0.5
70708W	Intermediate Wood Manufacturing	EE	9,10,11,12.....0.5
70710W	Adv Wood Manufacturing-STEM.	EE	10,11,12.....1.0

Family & Consumer Science

80800W	Baking and Nutrition.....	EU	9,10,11,12.....0.5
80802W	Cooking and Nutrition.....	EU	9,10,11,12.....0.5
80804W	American Cuisine.....	EU	10,11,12.....0.5
80806W	International Cuisine	EU	10,11,12.....0.5
80807W	Creative Cuisine.....	EU	10,11,12.....0.5
80808W	Fashion and Textile Design.....	EU	9,10,11,12.....0.5
80809W	Fashion and Textile Design 2	EU	10,11,12.....0.5
80810W	Interior Design	EU	10,11,12.....0.5
80821W	Independent Living	EU	11,12.....0.5
80822W	Child Development	EU	10,11,12.....0.5
80823W	Sports and Nutrition	EU	11,12.....0.5

CODES

A College Prep

B Core

EA Recommended
elective for Arts
and Humanities
ClusterEB Recommended
elective for
Business
Communications
ClusterEE Recommended
elective for
Engineering/
Industrial
ClusterEH Recommended
elective for
Health and
Human Services
ClusterEU Recommended
elective for all
career clusters

F Female

K Courses are linked
and must both be
taken the same
semester

M Male

Department/Course	Codes	Grade	Credits
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Art

90902X	Foundations of Studio Art.....	EU.....	9.....	1.0
90903W	Studio Art.....	EA.....	10,11,12.....	0.5
90930W	Studio Art Around the World.....	EA.....	10,11,12.....	0.5
90904W	Drawing 1 – The Study of Forms.....	EA,EE.....	10,11,12.....	0.5
90907W	Drawing 2 – Spaces and Faces.....	EA,EE.....	11,12.....	1.0
90922D	Advanced Drawing Dual Enroll-Honors.....	EA.....	11,12.....	1.0
90912W	Cartooning 1.....	EA.....	10,11,12.....	0.5
90913W	Cartooning 2.....	EA.....	10,11,12.....	0.5
90919W	Painting 1.....	EA.....	10,11,12.....	0.5
90921W	Painting 2.....	EA.....	11,12.....	1.0
90924W	Watercolor Painting 1.....	EA.....	10,11,12.....	0.5
90925W	Watercolor Painting 2.....	EA.....	10,11,12.....	0.5
90932W	Ceramics 1 – Pottery.....	EA.....	10,11,12.....	0.5
90934W	Ceramics 2 – Ceramic Sculpture.....	EA.....	10,11,12.....	0.5
90938W	Digital Photography.....	EU.....	10,11,12.....	0.5
90940W	Intro to Animation.....	EU.....	10,11,12.....	0.5
90942W	Digital Arts.....	EU.....	10,11,12.....	0.5
70714W	Graphic Design.....	EU.....	9,10,11,12.....	0.5

Music

90951X	Concert Band.....	EA.....	9,10,11,12.....	1.0
90952Y	Concert Band Split.....	EA.....	9,10,11,12.....	0.5
90953Y	Concert Choir Split.....	EA.....	9,10,11,12.....	0.5
90954X	Concert Choir.....	EA.....	10,11,12.....	1.0
90955Z	Zephyr Choir.....	EA.....	9,10,11,12.....	1.0
90956Z	Tenor/Bass Choir.....	EA.....	9,10,11,12.....	1.0
90957Z	Treble Choir.....	EA.....	9,10,11,12.....	1.0
90961W	Music Theory 1.....	EA.....	9,10,11,12.....	0.5
90962W	Music Theory 2.....	EA.....	10,11,12.....	0.5
90963X	Advanced Placement Music Theory.....	EA.....	11,12.....	1.0
90972W	Learning to Play the Piano Level 1.....	EA.....	9,10,11,12.....	0.5
90973W	Learning to Play the Piano Level 2.....	EA.....	9,10,11,12.....	0.5
90974W	Theatre Arts I.....	EA.....	9,10,11,12.....	0.5
90975X	Theatre Arts II.....	EA.....	10,11,12.....	0.5
90976W	Introduction to Musical Theatre.....	EA.....	10,11,12.....	0.5
90979W	Instrumental Techniques 1.....	EA.....	9,10,11,12.....	0.5
90980W	Instrumental Techniques 2.....	EA.....	9,10,11,12.....	0.5
90981W	Popular Music 1.....	EU.....	9,10,11,12.....	0.5
90982W	Popular Music 2.....	EU.....	9,10,11,12.....	0.5
90983W	Popular Music 3.....	EU.....	10,11,12.....	1.0

CODES

A College Prep

B Core

EA Recommended
elective for Arts
and Humanities
ClusterEB Recommended
elective for
Business
Communications
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elective for
Engineering/
Industrial
ClusterEH Recommended
elective for
Health and
Human Services
ClusterEU Recommended
elective for all
career clusters

F Female

K Courses are linked
and must both be
taken the same
semester

M Male

WHS COURSE DESCRIPTIONS

HEALTH AND PHYSICAL EDUCATION

1F (Female) / 2M (Male) / 3W (Co-Ed) PHYSICAL EDUCATION 1

(Grade 9) (0.5 Credit)

(Prerequisite: None)

Ninth grade physical education students will evaluate their fitness needs, experience enjoyment, develop an appreciation of fitness and learn to interact with others through team and individual activities as well as meeting the Pennsylvania Standards for Physical Education. The various activities may include soccer, flag football, volleyball, floor hockey, basketball, dodge ball, swimming, golf, weight training, tennis, badminton, table tennis, softball, aerobics, mat ball and Fitness Friday. Included in the class will be both a pretest and posttest to measure fitness.

4W LIFETIME SPORTS

(Grade 10,11,12 Co-Ed) (0.5 Credit)

(Prerequisite: Physical Education 1, successfully completed previous Physical Education classes)

This semester course provides students the ability to evaluate their fitness goals, experience enjoyment, develop an appreciation of fitness and learn to interact with others through lifetime sport activities. The various activities include: golf, badminton, tennis, swimming, frisbee golf, fitness walking/jogging, pickleball, drum fit, aerobic activities, and table tennis. The students will be able to refine their technique and improve strategic concepts involved in the activities to provide a foundation for lifetime enjoyment of the activities.

5W PERSONAL FITNESS

(Grade 10,11,12 Co-Ed) (0.5 Credit)

(Prerequisite: Physical Education 1, successfully completed previous Physical Education classes)

This semester course is designed for students who want to develop programs of exercise and activity in order to attain goals specifically dealing with the five health related fitness components (cardiovascular endurance, muscular strength and endurance, flexibility, and body composition). Ultimately, students develop and implement personal fitness programs utilizing weight training, aerobic and anaerobic activities, fitness walking/jogging, circuit training, pilates, yoga, drum fit, swimming, as well as any activity of interest. This class is for students who want to take a more individualized approach to improve their physical fitness.

6W TEAM SPORTS

(Grade 10,11,12 Co-Ed) (0.5 Credit)

(Prerequisite: Physical Education 1, successfully completed previous Physical Education classes)

This semester course is designed for students who enjoy indoor and outdoor team sports. In this course students are offered the opportunity to participate in activities with a focus on application of skills within the framework of the rules and basic strategies of the game. The students realize effective benefits through their constant interaction and participation with peers. The course offers a wide range of activities which could include Flag Football, Softball, Basketball, Soccer, Floor Hockey, Volleyball, Handball and Ultimate Frisbee.

9W LIFEGUARDING/CPR/FIRST AID

(Grade 10,11,12 Co-Ed) (0.5 Credit)

(Prerequisite: Swimming 12 lengths of the pool, Weighted Brick Test, successful completion of Health 1)

(There is a certification fee of \$39 by the American Red Cross. Fee is subject to change)

This course provides a meaningful elective that will teach, challenge, and support students to realize their maximum potential and to acquire the knowledge and skills needed to enhance a safe environment by preventing injury. The course will also provide an opportunity to improve personal fitness through skill development and emphasizing the importance of making responsible decisions. It also offers students an opportunity to obtain an American Red Cross Certification in Lifeguarding. The pretest for this course involves swimming twelve (12) continuous lengths of the pool using free style and breaststroke as well as timed weighted brick retrieval.

10W STRENGTH AND CONDITIONING

(Grade 10,11,12 Co-Ed) (0.5 Credit)

(Prerequisite: Physical Education 1, successfully completed previous Physical Education classes)

Strength and Conditioning is a combination of performance weight training, speed and agility development, swimming and classroom activities. Students participate in activities that will enhance cardiovascular fitness, muscular strength and endurance, flexibility, and body composition. The following components will also be discussed: goal setting, sportsmanship, sport conditioning and injury prevention. Strength and Conditioning is an intense fitness training course. In order to gain entry into this course, students must have successfully completed previous Physical Education classes.

10X ADAPTED PHYSICAL EDUCATION

(Grade 9,10,11,12 Co-Ed) (0.5 Credit)

(Prerequisite: Doctor's Recommendation)

Students, who because of physical limitations and with their doctor's recommendation, will participate in an adapted physical education course. They will understand the need to participate in specific physical activities and utilize appropriate physical fitness equipment. Students will demonstrate their knowledge by designing a personal fitness program based upon the research pertaining to their condition. Criteria will be provided by the teacher.

13W CONCEPTS OF SPORT SCIENCE

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Successful completion of previous Health I and/or II classes)

This course provides a meaningful elective that will teach and introduce students the fundamentals of sport science. This course will provide knowledge in physiology, kinesiology, anatomy, careers in sports, physical fitness, assessing/treatment/rehabilitation of sport injuries, society, and culture in sports. Students considering a career in or relating to the Sport Science field should consider this course. Students must have successfully completed previous Health classes in order to gain entry into this course.

20C HEALTH 1

(Grade 9) (0.5 Credit)

(Prerequisite: None)

In ninth grade health, students will understand the basic concepts of male and female sexuality, stress-related problems, mental disorders, and suicide prevention. Moreover, students will learn about nutrition, endocrine system, and drug addiction. Students will show knowledge and understanding of these topics by researching and developing a written paper and making an oral presentation on their respective topic. A visual aid will be required for these assignments.

21C HEALTH 2

(Grade 10,11,12) (0.5 Credit)

(Prerequisite: Health 1)

Students will understand pregnancy and birth, family planning, and dating violence. Students will learn about AIDS and sexually-transmitted diseases, alcohol and related abuse. Students will demonstrate their understanding of these concepts through quizzes and tests. Criteria will be set by the teacher. Virtual textbooks are available upon request.

CAREER EDUCATION

90E CAREERS IN EDUCATION - Level 1

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: Due to the nature of this course, students must be in good academic and disciplinary standing to enroll in this course)

This course is designed for students who are interested in pursuing an educational career either as a classroom teacher or educational support person including, but not limited to inclusion, psychology, speech or counseling. The course will combine formal classroom instruction, which will focus on such items as educational theory, history, and methodology, in addition to practical experience in a classroom. Activities and assessments will include, but not be limited, to reading and critiquing professional articles, preparation of daily logs, writing prompts, a child development study, an oral presentation of a child observation, and any activities assigned by the teacher they are working with during the semester. A variety of speakers will also provide insight into pertinent educational topics.

91E CAREERS IN EDUCATION - Level 2

(Grade 12) (1.0 Elective Credit)

(Prerequisite: Course 90E; Due to the nature of this course, students must be in good academic and disciplinary standing to enroll in this course)

This course is designed for students who have completed Career Education 1 and are interested in a career in the field of education. This course will also feature formal classroom instruction that will include, but not be limited to, current trends in education, the role of the public schools in the new millennium, funding challenges, and advanced methodology. Students will be assigned to work with an educational professional in the district and will be expected to complete more complex assignments. Activities and assessments will be similar to those in 90E but will be more challenging to the student.

ENGLISH**10160B CORE ENGLISH 9**

(Grade 9) (1.0 Credit)

(Prerequisite: None)

Students will focus on reading, writing, speaking, and listening and will participate in close reading opportunities that support text analysis. This course will include exposing students to higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to freedom, common ground, heroes and quests presented in selections. Students will explore a theme across multiple genres. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a perspective, purpose, and to a particular audience, will help students complete writing prompts and a research paper using MLA format. The study of grammar will be combined with a practical study of vocabulary to help students succeed on standardized tests and be college and career ready.

***10160A COLLEGE PREP ENGLISH 9**

(Grade 9) (1.0 Credit)

(Prerequisite: None)

Students will focus on reading, writing, speaking, and listening and will participate in close reading opportunities that support text analysis. This course will include higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to freedom, common ground, and heroes and quests presented in selections. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a “defined” perspective, purpose, and to a particular audience, will help students complete writing prompts and a research paper using MLA format. The study of grammar (especially parts of speech, sentence parts, punctuation, and capitalization) will be combined with a rigorous study of vocabulary to help students excel on standardized tests and be college and career ready.

***10160H HONORS ENGLISH 9**

(Grade 9) (1.0 Credit)

(Prerequisite: Teacher Recommendation)

Students will focus on reading, writing, speaking, and listening and will participate in close reading opportunities that support text analysis. This course will include higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to freedom, common ground, and heroes and quests presented in selections. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a “defined” perspective, purpose, and to a particular audience, will help students complete writing prompts and a research paper using MLA format. An in-depth study of grammar (especially parts of speech, sentence parts, punctuation, and capitalization) will be combined with an intense study of vocabulary to help students excel on standardized tests and be college and career ready. This course will challenge students to think more critically and more independently. Students are responsible for completing a summer assignment for this course before the school year begins. Please refer to the Summer Reading section of the high school website for more details.

10162B CORE ENGLISH 10

(Grade 10) (1.0 Credit)

(Prerequisite: English 9)

Students will focus on reading, writing, speaking, and listening and will participate in close reading opportunities that support text analysis. This course will include exposing students to higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to the natural world, responses to change, and absolute power presented in text selections. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a perspective, purpose, and to a particular audience, will help students complete various genres of writing and a research paper using MLA format. The study of grammar (especially parts of the sentence, phrases, and clauses) will be combined with a practical study of vocabulary to help students succeed on standardized tests and be college and career ready. In addition, students will respond to writing prompts and complete a series of reading questions and activities. The Literature Keystone Exam will be administered at the end of this course.

***10162A COLLEGE PREP ENGLISH 10**

(Grade 10) (1.0 Credit)

(Prerequisite: English 9)

Students will focus on reading, writing, speaking, and listening and will participate in close reading opportunities that support text analysis. This course will provide students with higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to the natural world, responses to change, and absolute power presented in text selections. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a “defined” perspective, purpose, and to a particular audience, will help students complete various genres of writing and a research paper using MLA format. The study of grammar (especially parts of the sentence, phrases, and clauses) will be combined with a rigorous study of vocabulary to help students excel on standardized tests and be college and career ready. In addition, students will respond to writing prompts and complete a series of reading questions and activities. The Literature Keystone Exam will be administered at the end of this course.

***10162H HONORS ENGLISH 10**

(Grade 10) (1.0 Credit)

(Prerequisite: Teacher recommendation)

Students will focus on reading, writing, speaking, and listening and will use close reading opportunities that support text analysis. This course will challenge students with higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to the natural world, responses to change, and absolute power presented in text selections. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, making connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a “defined” perspective, purpose, and to a particular audience, will help students complete writing prompts and a research paper using MLA format. The study of grammar (especially parts of the sentence, phrases, and clauses) will be combined with an intense study of vocabulary to help students excel on standardized tests and be college and career ready. This course will challenge students to think more critically and independently. Students are responsible for completing a summer assignment for this course before the school year begins. Please refer to the Summer Reading section of the high school website for more details. The Literature Keystone Exam will be administered at the end of this course.

10164B CORE ENGLISH 11

(Grade 11) (1.0 Credit)

(Prerequisite: English 10)

Students will focus on reading, writing, speaking, and listening and will participate in close reading opportunities that support text analysis. This course will include exposing students to higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to the building a democracy, the individual and society, and an age of Realism presented in selections. Additional select novels will serve as anchor texts for literary analysis, text-dependent responses, and discussion. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a perspective, purpose, and to a particular audience, will help students complete various genres of writing and a research paper using MLA format. The study of grammar will be combined with a practical study of vocabulary to help students succeed on standardized tests and be college and career ready. In addition, students will respond to writing prompts and complete a series of reading questions and activities.

***10164A COLLEGE PREP ENGLISH 11**

(Grade 11) (1.0 Credit)

(Prerequisite: English 10)

Students will focus on reading, writing, speaking, and listening will use close reading opportunities that support text analysis. This course will provide students with higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to, building a democracy, the individual and society, and an age of Realism as presented in text selections. Additional select novels will serve as anchor texts for literary analysis, text-dependent responses, and discussion. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a “defined” perspective, purpose, and to a particular audience, will help students complete various genres of writing and an MLA formatted research paper. The focused study of grammar will be combined with a rigorous study of vocabulary to help students excel on standardized tests and be college and career ready.

***10164H HONORS ENGLISH 11**

(Grade 11) (1.0 Credit)

(Prerequisite: Teacher recommendation)

Students will focus on reading, writing, speaking, and listening will use close reading opportunities that support text analysis. This course will challenge students with higher-order text-dependent questions to promote deeper thinking about texts. Students will read, critically interpret, and respond in writing to themes such as, but not limited to building a democracy, the individual and society, and an age of Realism presented in text selections. Additional select novels will serve as anchor texts for literary analysis, text-dependent responses, and discussion. Students will read, understand, and respond to informational text as well as literary fiction – with an emphasis on comprehension, connections among ideas and between texts, and textual evidence. An emphasis on the writing process, specifically writing with a “defined” perspective, purpose, and to a particular audience, will help students complete various genres of writing and a research paper using MLA format. The study of grammar (especially parts of speech, sentence parts, punctuation, and capitalization) will be combined with an intense study of vocabulary to help students excel on standardized tests and be college and career ready. This course will challenge students to think more critically and more independently. Students are responsible for completing a summer assignment for this course before the school year begins. Please refer to the Summer Reading section of the high school website for more details.

***10114H ADVANCED PLACEMENT LANGUAGE AND COMPOSITION**

(Grade 11) (1.0 Credit)

(Prerequisite: Teacher recommendation)

Advanced Placement Language and Composition is designed to offer the exceptional English student a chance to pursue college-level studies while he/she is still in high school. In May, each student will take the National AP Examination that will test his/her ability to read and write on the competency level of a freshman in college. Participating colleges and universities then grant credit or appropriate placement to students who achieve a certain level of merit on the exam. Students in this introductory college-level course read and carefully analyze a broad and challenging range of nonfiction prose selections, deepening their awareness of rhetoric and how language works. Through close reading and frequent writing, students develop their ability to work with language and text with a greater awareness of purpose and strategy, while strengthening their own composing abilities.

Students will master the theory and practice of the writing process with a strong emphasis on editing and revision. Course readings feature expository, analytical, personal, and argumentative texts from a variety of authors and historical contexts. Students examine and work with essays, letters, speeches, images, and imaginative literature. The AP student must be prepared to demonstrate high academic achievement in a variety of ways: standardized tests, recall of information tests, quizzes, essay tests, writing portfolios, oral presentations, discussions, vocabulary tests, and projects. In addition, students will be required to complete a close-read and analysis over the summer of Maya Angelou’s, *I Know Why the Caged Bird Sings*, (ISBN# 0-553-27937-8), read Strunk and White’s *Elements of Style*, and define a specialized list of AP terminology. **In order to receive AP weight for this class, students must take the AP Exam in May.**

10168B CORE CONTEMPORARY AND WORLD LITERATURE

(Grade 12) (1.0 Credit)

(Prerequisite: English 11)

This Contemporary and World Literature course includes the study of poetry, short story, nonfiction, drama, and the novel since the turn of the last century. This class will emphasize competencies linked to the Pennsylvania Core Standards such as class discussions, writing skills, analysis activities and vocabulary development. Major literary selections will include *Hamlet* and other selections of long fiction. Specific reading strategies will be used to provide the appropriate scaffolding for challenging texts, and students will be encouraged to read and report their experiences. Students will respond to writing prompts and a research project will be included as one of the major assessments in the course.

***10168A COLLEGE PREP CONTEMPORARY AND WORLD LITERATURE**

(Grade 12) (1.0 Credit)

(Prerequisite: English 11)

This Contemporary and World Literature course includes the study of poetry, short story, nonfiction, drama, and the novel since the turn of the century. This class will emphasize competencies linked to the Pennsylvania Core Standards such as class discussions, grammar and writing skills, analysis activities, and vocabulary development. Major literary selections will include *Hamlet*, *Long Walk to Water*, and *Night*. Students will also respond to the literature by writing a variety of essays (narrative, expository, persuasive, and critical analyses). An extensive research paper on a contemporary novel using MLA format will be included as one of the major assessments in the course.

***10168H HONORS CONTEMPORARY AND WORLD LITERATURE**

(Grade 12) (1.0 Credit)

(Prerequisite: Teacher Recommendation)

Honors Contemporary and World Literature includes in-depth study of poetry, short story, nonfiction, drama, and the novel since the turn of the century. This class will emphasize competencies linked to the Pennsylvania Core Standards, at an advanced level, such as class discussions, grammar and writing skills, analysis activities, and vocabulary development. Major literary selections will include *Hamlet*, *Brave New World*, *Anthem*, *Night*, and others. Specific reading strategies will be used to encourage rigorous close-reading and analysis of language and themes. Students will respond to exploratory writing prompts pertaining to our reading, as well as independent topics. Annotation and subsequent discussions based on reading will form a key component of this dynamic course. A full literary research project will be included as one of the major assessments in the course. Students are responsible for completing a summer assignment for this course before the school year begins. Please refer to the Summer Reading section of the high school website for more details.

***10112H ADVANCED PLACEMENT LITERATURE AND COMPOSITION**

(Grade 12) (1.0 Credit)

(Prerequisite: Teacher recommendation)

The Advanced Placement Literature and Composition course is designed to offer the exceptional English student a chance to pursue college-level studies while he/she is still in high school. In May, each student will take the National AP Examination that will test his/her ability to read and write on the competency level of a freshman in college. Participating colleges and universities then grant credit or appropriate placement to students who achieve a certain level of merit on the exam.

This exam dictates the three approaches that the course will take. First, the student will master the theory and practice of the writing process. In addition, the course will emphasize an intensive study of various genres of literature in order to create in the student the ability to interpret literature of “recognized literary merit” insightfully and independently. Finally, the student will engage in literary criticism based on the various schools of critical literary thought and will be able to evaluate the impact of literary conventions on the meaning of works as a whole.

The AP student must be prepared to demonstrate high academic achievement in a variety of ways: standardized tests, recall of information tests, quizzes, essay tests, writing portfolios, oral presentations, discussions, vocabulary tests, and projects. In addition, students must complete the two mandatory summer reading novels and complete a double-entry notetaker for each prior to the beginning of the course: *Frankenstein* (ISBN# 0-451-52771-2), and *Heart of Darkness* (ISBN# 0-486-26464-5). There is also a list of suggested reading. These texts will be incorporated throughout the semester as outside reading, book talks, and unit texts: *As I Lay Dying* (ISBN# 679-73225-X), *The Awakening* (ISBN# 0-553-21330-X), and *1984* (ISBN# 0-451-52493-4), *Purple Hibiscus*, *Metamorphosis*, *Brave New World*, *Anthem*, *Their Eyes Were Watching God*, *Crime and Punishment*, and others. **In order to receive AP weight for this class, students must take the AP Exam in May.**

***10113C RESEARCH AND COMPOSITION DUAL ENROLLMENT-HONORS**

(Grade 12) (1.0 Credit)

(Prerequisite: Course 10110A, Sufficient Score on LCCC Placement Test, and nominal per credit cost)

This course provides students with the fundamental skills needed for writing at the college level. An entry-level college writing course, English 105 Research and Composition is appropriate for those students who would like to earn college credit while still satisfying the Senior English requirement at the high school. As a prerequisite, students must pass the COMPASS entrance exam for LCCC. Students must earn at least a “C” average in order to earn LCCC credits. This course exposes students to the process of writing through various genres of written expression such as narrative, expository, persuasive/argumentation, literary analysis, as well as a comprehensive researched-based paper following MLA guidelines. Students will also participate in a culminating Education Symposium. In addition, students will be completing various assignments that allow them to hone their grammar and mechanical skills and develop their style and voice.

During the course, students will read one of the following selections: *Brave New World* (ISBN# 0-9710756-9-7), *1984* (ISBN# 0-451-52493-4), or *Their Eyes Were Watching God* (ISBN# 0-06-093141-8). In addition, students will complete the following required summer readings prior to the beginning of the course: *Frankenstein* (ISBN# 0-451-52771-2), and *The Elements of Style* (ISBN# 0-205-31342-6).

10115W STUDIO & MEDIA STUDIES 1

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: English teacher recommendation.)

Students in this course will study the role of media in modern life. For this course, “media” includes broadcast, print, cinematic, social, and other forms of mass media. The class will be split between developing media literacy and media production skills. Students will study the functions and conversations of media in the modern world. Additionally, students will learn and practice the techniques of broadcast journalism including sound, lighting, camera work, and digital mixing. Students will also gain experience with storytelling through film, writing scripts, photography, social media advertising, and more. Students are expected to be on camera and to share projects within the Studio & Media 1 class.

10116W STUDIO & MEDIA STUDIES 2

(Grade 11,12) (0.5 Elective Credit)

(Prerequisite: Successful completion of Studio & Media Studies 1 and Studio teacher recommendation.)

Students may be expected to arrive before 7:55AM on days in which their class runs the morning studio broadcast.)

Students in this course will be responsible for producing regular video announcements for the school. In addition, students will produce short films, news packages, or other media that apply the skills learned in Studio & Media 1. Students will learn advanced video editing skills, refine public speaking skills, and work on creative independent projects of their choice. Students will be required to be on camera for the video announcements and to spend significant time after school and outside of class recording events and working on independent projects. Upon successful completion of Studio & Media 1, students may take this class.

10117E JOURNALISM 1

(Grades 10,11,12) (1.0 Elective Credit)

(Prerequisite: English teacher recommendation. Students will be required to complete work for the course outside of class.)

In this course students will learn the basic types of newspaper articles such as news, feature, editorial, and sports and will formulate their own headlines and leads. Students will complete layouts, edit copy, crop pictures, and compose their own articles through interviewing and reporting. Student work will be published in the school magazine, *The Zephyr*, and the *Breeze* blog.

**Note: If low enrollment in either Journalism I or II, classes may be combined.*

10118E JOURNALISM 2

(Grades 11,12) (1.0 Elective Credit)

(Prerequisite: Successful completion of Journalism 1 and Journalism teacher recommendation)

In this course the students will apply journalism fundamentals to produce the school magazine, *The Zephyr*. Students will complete layouts, write and edit copy, crop pictures, and compose their own articles through interviewing and reporting for *The Zephyr* and the *Breeze* blog. Students will participate in press evaluations of their work throughout the year, through both professional and academic reviews. **Note: If low enrollment in either Journalism I or II, classes may be combined.*

10120E YEARBOOK PRODUCTION

(Grades 10,11,12) (1.0 Elective Credit)

(Prerequisite: None)

Students enrolled in *Yearbook Production* will be introduced to the principle concepts of yearbook design to create the school yearbook, *The Whitehall*. Students will develop a theme, take photographs, write captions, and design page layouts to create a professional product. In addition, students will assume staff roles, complete the production schedule, meet the prescribed deadlines, and market the yearbook. Students not only will utilize traditional methods for the production of the yearbook, but also will use a web-based computer program to create *The Whitehall*.

10121W MYTHOLOGY

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course will explore the culture of Ancient Greece and the minds that created stories that have stood the test of time. Since mythology inspires many parts of modern culture, students will identify places that use mythological ideas in our world. Students will read, write, create, perform, watch, and enjoy myths. In addition to regular tests, students will complete or participate in a variety of interactive projects that help expand their knowledge of mythology and its culture.

***10131D SPEECH/PUBLIC SPEAKING DUAL ENROLLMENT-HONORS CREDIT**

(Grade 11,12) (1.0 Elective Credit) – Nominal Per Credit Cost

(Prerequisite: None)

This course will introduce students to basic communication theory and will provide them with the skills, strategies, and knowledge necessary to write and deliver various types of speeches. From impromptu and extemporaneous speeches to debates and symposiums, students will learn how to research information, organize an effective speech text, and present their original speeches to a variety of audiences. Moreover, students will learn to analyze, evaluate, and constructively criticize others' work. Students will also learn how to create and work with effective presentation aids. Students will read 10 self-selected speeches on the website Americarhetoric.com and will complete a speech analysis sheet for each prior to the beginning of the course.

10132W CREATIVE WRITING

(Grade 11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course encourages students to see creative writing as a unique way of thinking and constructing meaning. Through reading many examples of great literature and learning varied styles of poetry, fictive prose, non-fictive prose, and drama, students will learn to model a variety of techniques. Peer assessment and class discussions are a major component of the course, as is the ability to accept constructive criticism. Students will also excel at the art of revision.

LANGUAGE INSTRUCTION EDUCATIONAL PROGRAM FOR ENGLISH LEARNERS**88X ENGLISH AS A SECOND LANGUAGE (ESL)**

(Grade 9,10,11,12) (1.0 English Credit)

(Prerequisite: Teacher or Counselor Recommendation based on WIDA Screener (online or paper) or ACCESS for ELLs Assessment results)

This course, open to students formally classified English Learners, develops to improve overall speaking, listening, reading, and writing skills in English in accordance with the PA English Language Development Standards. Students will learn and use academic vocabulary necessary for success in school, practice reading for comprehension at their current level of reading ability, and write for a variety of purposes. Students will also read and respond to high school level texts (both fiction and non-fiction) with appropriate scaffolding in place in order to help support the student's understanding. Grammar instruction will take place in order to improve upon English conventions in both speaking and writing.

87W ENGLISH LANGUAGE ENRICHMENT (EL ENRICHMENT)

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: Teacher or Counselor Recommendation based on WIDA Screener (online or paper) or ACCESS for ELLs Assessment results)

This course provides supplemental support for English Learners to enhance academic English language. Students are provided access to additional materials and resources in order to be successful in content-area classes.

SOCIAL STUDIES**20202B CORE AMERICAN STUDIES 1**

(Grade 9) (1.0 Credit)

(Prerequisite: None)

This course will set up the establishment of the American nation, and then dive into the issue of slavery in America. Students will look at the effects of slavery and its impact economically, politically, and socially. The causes and effects of the Civil War will lead the course into Reconstruction, the changes in the West, and finally into life in the Twentieth Century. The last leg of the course will explore the Progressive Era, America asserting itself as an empire, and World War I. This class is designed to be moderate in pace when examining issues that developed during the creation of our nation to the start of World War I. Students will examine documents and excerpts from primary sources within the classroom setting. Achievement will be measured through short essays, in class projects, written tests, and quizzes. An Assessment of Civics Knowledge will be administered as a part of this 9th grade American Studies 1 course. This course incorporates technology into the classroom setting.

***20201A COLLEGE PREP AMERICAN STUDIES 1**

(Grade 9) (1.0 Credit)

(Prerequisite: None)

This course will set up the establishment of the American nation, and then dive into the issue of slavery in America. Students will look at the effects of slavery and its impact economically, politically, and socially. The causes and effects of the Civil War will lead the course into Reconstruction, the changes in the West, and finally into life in the Twentieth Century. The last leg of the course will explore the Progressive Era, America asserting itself as an empire, and World War I. This class is designed to be challenging and in-depth when examining historical events. Students will trace history by looking at the cause and effect relationships of the events in history through the use of the Library, extended readings and writings, videos, and assigned outside readings. The outside reading for this course will focus on the issue of slavery, *Narrative of the Life and Times of Frederick Douglass* (ISBN# 978-0-451-52994-7). Achievement will be measured through short essays, in class projects, written tests, and quizzes. An Assessment of Civics Knowledge will be administered as a part of this 9th grade American Studies 1 course. This course incorporates technology into the classroom setting.

***20204H HONORS AMERICAN STUDIES 1**

(Grade 9) (1.0 Credit)

(Prerequisite: Teacher recommendation and assessment)

Students will learn about historical events focusing on the establishment of the United States from the creation of the U.S. Constitution to the Post Civil War Era. This class is designed to be challenging and in-depth when examining historical events. Students will trace history by looking at the cause and effect relationships of the events in history through the use of Socratic seminars, extended reading and writing, videos and an assigned outside reading list. There is no summer assignment for this class. Entry into this class will be determined by teacher recommendations, grades and a graded writing assessment. An Assessment of Civics Knowledge will be administered as a part of this 9th grade American Studies 1 course.

20205B CORE AMERICAN STUDIES 2

(Grade 10) (1.0 Credit)

(Prerequisite: Course 20201A or 20202B)

Students will learn U.S. History from the 1930's to the present. Students will examine the impact of the Great Depression and the New Deal on American culture. Students will examine historical events leading up to and including World War II and analyze great American leaders during this era. Students will trace events, movements, and individuals which impacted the modernization of American society in the post World War II era, transforming the U.S. into a major economic and political leader in world affairs. Assessments will include written and oral reports, projects, tests, quizzes, and cooperative learning activities.

***20204A COLLEGE PREP AMERICAN STUDIES 2**

(Grade 10) (1.0 Credit)

(Prerequisite: Course 20201A or 20202B)

Students will learn U.S. History from the 1930's to the present. Students will examine the impact of the Great Depression and the New Deal on American culture. Students will examine events leading up to World War II and our involvement in this war with analysis of American leadership during this era. Students will trace events, movements, and individuals which impacted the modernization of American society in the post World War II era, transforming the U.S. into a major economic and political leader in world affairs. Assessments will include written and oral reports, projects, tests, quizzes, cooperative learning activities, research paper, analysis of significant primary sources, and outside reading assignments.

***20206H HONORS AMERICAN STUDIES 2**

(Grade 10) (1.0 Credit)

(Prerequisite: Course 20201A or 20204H and Teacher recommendation)

In this course, students will conduct an in-depth study of United States History from the 1930's to the present. Students will analyze the dramatic economic, political, and social changes that occurred as the U.S. became the leading industrial and consumer economy populated by a great diversity of peoples who immigrated from around the world. Students will be able to explain how the U.S. became a major economic and political leader in world affairs and adopted a greatly expanded role for government. Finally, students will study how the U.S. modernized socially and culturally with new roles and rights for women, African-Americans and other minorities. Course requirements include substantial additional readings and writings. Assessment will be based on exams, papers, class contribution, homework, quizzes, and projects. There is no summer assignment for this class. This course is weighted for class rank.

***20212H ADVANCED PLACEMENT UNITED STATES HISTORY**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Teacher recommendation)

Students will learn about the historical issues, problems and concerns of the United States. The course prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students will learn to analyze historical materials and arrive at conclusions based on historical judgment. Student assessment will be based on objective exams, free-response and document-based essays, with outside reading assessments. There is no summer assignment for this class. **In order to receive AP weight for this class, students must take the AP Exam in May.**

20208B CORE GLOBAL STUDIES

(Grade 11) (1.0 Credit)

(Prerequisite: Course 20204A or 20205B)

Students will study the history, geography and economics of the world. To enhance their understanding of world history, students will complete group projects and written reports. Guest speakers, videos and outside reading assignments will supplement traditional materials. The skill and knowledge of students will be assessed through written tests and essays, class work and homework, along with individual and group projects.

***20207A COLLEGE PREP GLOBAL STUDIES**

(Grade 11) (1.0 Credit)

(Prerequisite: Course 20204A or 20205B)

World History provides for the study of world history, geography and economics. Students will analyze the history and geography of the world and the societies, cultures, religions, arts and global relations that have developed over time. They will compare different political and economic systems while identifying political leaders from selected historical and contemporary settings. Students will be assessed based on tests, essays, class work, oral presentations, outside readings and written research assignments.

20213D WORLD HISTORY DUAL ENROLLMENT (LCCC) – HONORS CREDIT**20213H HONORS WORLD HISTORY - HONORS CREDIT**

(Grade 11) (1.0 Credit)

(Prerequisite: Course 20206H and teacher recommendation)

(Dual Prerequisite: Course 20206H, teacher recommendation and Sufficient Score on LCCC Placement Test; nominal per credit cost)

The course will focus on world history during the 20th Century. The course will be topical dealing with the major conflicts among nations: military, political, economic, social, and environmental. Current events will be covered throughout the class to emphasize the connection between the recent past and the issues of today. During the semester, the students will complete projects of their own design as well as a research paper.

***20214H ADVANCED PLACEMENT WORLD HISTORY**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Teacher Recommendation)

Students will learn about the historical issues, problems, and concerns related to World History. The course prepares students for intermediate and advanced college courses by providing a clear framework of six chronological periods viewed through the lens of related key concepts and course themes, accompanied by a set of skills that clearly define what it means to think historically. Students will learn to analyze historical materials and arrive at conclusions based on historical judgment. Student assessment will be based on objective exams, free-response and document-based essays along with outside reading assessments. Participation in afterschool review seminars in preparation for the AP exam administered in May is highly encouraged. There is no summer assignment for this class. **In order to receive AP weight for this class, students must take the AP Exam in May.**

20211B CORE AMERICAN GOVERNMENT/CONSUMER ECONOMICS

(Grade 12) (1.0 Credit)

(Prerequisite: Course 20201A or 20202B)

American Government/Consumer Economics B is a course focusing on fundamental principles of our government and economic systems. Students will learn their role as a voter in our multicultural society and the rights and responsibilities we share as citizens of our country. Students will learn the basic structure, organization and purpose of our federal, state, and local levels of government, and how those levels impact their lives. Consumer economics is designed to enable students to understand the practical economics needed to make reasoned judgments about both personal economic decisions and questions about economic policy in our world. Concepts of scarcity/choice, opportunity benefit/cost, productivity, economic systems, and basic economic concepts will be topics within the course. Student assessment will include: tests, essays, current event projects, research assignments with a focus on government knowledge and economic skills students need for success in life after high school.

***20210A COLLEGE PREP AMERICAN GOVERNMENT/CONSUMER ECONOMICS**

(Grade 12) (1.0 Credit)

(Prerequisite: Course 20201A or 20202B)

American Government is a course about civic responsibility. Students will learn their role as a voter in our multicultural society, the structure of our federal, state and local systems, and general responsibilities as a citizen. Consumer Economics is a study of how people organize for the production, distribution, and consumption of goods and services. It is designed to enable students to understand enough economics to make reasoned judgements about both personal economic questions and broader questions of economic policy in a complex and changing world. The course will deal with the economic concepts of scarcity and choice, opportunity costs and trade-off, productivity, economic systems and other fundamental economic concepts. Students will be assessed based on essays, tests, written research assignments, and group and individual projects.

***20230H HONORS AMERICAN GOVERNMENT/ ECONOMICS**

(Grade 12) (1.0 Credit)

(Prerequisite: Teacher recommendation)

This course will study the rights and duties of citizenship, the structure and interaction of branches of government, the political process and how individuals and nations make choices to use limited resources to fulfill societal wants and needs. It is intended to help students build the basic foundation to become productive and participatory citizens. Students will evaluate financial decision making, investigate how market systems work and examine the increasing globalization of world economies and the effect on the United States economy. This course is designed as an honors level by the accelerated instructional pacing and depth of content. Students will be expected to become active participants and will be called on to complete supplementary reading and more extensive writing assignments in narrative, informative and persuasive modes. There is no summer assignment for this class.

***20222A ADVANCED PLACEMENT UNITED STATES GOVERNMENT AND POLITICS**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Teacher recommendation)

Note: In order to satisfy Social Studies requirements, students must also take AP Microeconomics/Macroeconomics or a semester of Honors American Economics (0.5 Credits)

Students will gain an analytical perspective on government and politics in the United States. The course begins with an advanced investigation of the U.S. Constitution including its historical and theoretical foundations and the Supreme Court's interpretation of its key provisions. Students will also explore the political culture of the United States including the views citizens hold of their government and leaders. Students will examine the mechanisms that allow citizens to organize and communicate their interests and concerns including political parties, interest groups, and elections. Students will develop an understanding of the major institutions of national government. Combining many aspects of these topics, students will explore the formation and implementation of public policy. Finally, students will focus on Supreme Court decisions affecting the civil rights and civil liberties of Americans. Students should be prepared for substantial reading, writing, and presentation assignments. There is no summer assignment for this class. **In order to receive AP weight for this class, students must take the AP Exam in May.**

***20228H ADVANCED PLACEMENT MICROECONOMICS/MACROECONOMICS**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Teacher recommendation)

Note: In order to satisfy Social Studies requirements, students must also take AP US Government and Politics or a semester of Honors American Government (0.5 Credits)

Students are given the opportunity to complete college level work in economics and are prepared to sit for the AP Microeconomics and/or AP Macroeconomics exams in May. Students will gain an understanding of the principles of microeconomics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. Students develop an understanding of the problem of scarcity and the costs and benefits of specialization and trade. Students will focus on the nature and functions of product markets, factor markets, and the role of government in promoting greater efficiency and equity in the economy. Students will also focus on the study of macroeconomic principles including economic performance measures, the financial system, economic growth and international economics. Students will learn to use charts, graphs, and data to describe, analyze, and explain economic concepts. Students should be prepared for substantial reading, writing, and presentation assignments. There is no summer assignment for this class. **In order to receive AP weight for this class, students must take an Economics AP Exam in May.**

***20215E PSYCHOLOGY**

(Grade 11,12) (1.0 Elective Credit)

Students will be introduced to select concepts and principles of the general body of psychology. The course will cover topics such as research methodology, principles of learning and memory, human development, the human brain, personality, sensation/perception, and psychological disturbances. Achievement will be assessed through examinations, quizzes, class work, experiments, oral presentations, outside readings, and written research assignments.

20224W ABNORMAL PSYCHOLOGY

(Grade 11,12) (0.5 Elective Credit)

(Prerequisite: Psychology and teacher/counselor recommendation)

This course is designed to provide students with an introduction to theories and research concerning abnormal behavior (psychopathology). The course will address such topics as the incidence of abnormal behavior or various types; how abnormal behaviors are classified into various diagnostic categories as recognized in the current Diagnostic Statistical Manual (DSM), the etiologies (causes) of psychological disorders; and the variety of methods employed in the treatment of abnormal behavior.

***20227H ADVANCED PLACEMENT PSYCHOLOGY**

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: Teacher/counselor recommendation)

AP Psychology is a full-year course designed to provide students with a broad overview of the diverse field of psychology and prepare students for the AP Psychology Exam in May. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. In order to achieve these goals, the majority of the class time will be devoted to lectures, discussions, and extensive review sessions. However, time will also be allocated for demonstrations, experiments, and class activities; the content of which may or may not be covered in the text. Active participation in these activities will help clarify certain areas of study and should add to everyone's enjoyment of the class. This course has a summer assignment requirement. See the Summer Reading section of the high school website for assignment information. **In order to receive AP weight for this class, students must take the AP Exam in May.**

***20216E SOCIOLOGY**

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: Course 20204A)

Students will learn about Sociology as a science. They will learn about people, group behavior, culture and how it relates to human behavior. The concepts of socialization, collective behavior, and the social class system will be covered. In addition, students will exam how a problem comes to the public's attention, how it is defined, how data is misused or used in the presentation of a problem, and how political ideology affects what solutions are offered for a problem. Through investigation and discussion, students will analyze the social-structural conditions that produce particular problems and explore the ways in which they are connected.

***20217E BASIC LEGAL CONCEPTS 1**

(Grade 10,11,12) (1.0 Elective Credit)

(Prerequisite: Course 20201A, 20202B, or 20204H)

Students will study selected criminal laws of the Commonwealth of Pennsylvania and rules of criminal procedure accompanying those laws. The laws to be covered will include but not be limited to the preliminary provisions, culpability, inchoate crimes, law of theft, law of arrest, law of homicide, law of assault and law of sexual assault. Also covered extensively will be the following Amendments from the Federal Constitution: Fourth, Fifth, Sixth, Eighth and Fourteenth. Through active listening activities, interaction, and hands-on activities, students will acquire knowledge of current legal practices. Assessments will include but not be limited to case analyses, writing activities, cooperative learning activities, simulations, role playing, written assessments, class discussion, analyses of articles from professional journals and speakers from the criminal justice field.

20218E BASIC LEGAL CONCEPTS 2

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: Successful completion of Basic Legal I and teacher recommendation)

Students will study selected topics relating to the rules of criminal procedure and laws of the Commonwealth of Pennsylvania along with selected laws and criminal procedure of the federal crimes code. General topics to be covered will include rules of evidence, the causes of crime, the future of criminal justice, policing structure and issues, probation and parole, and corrections. After studying the federal system, students will be able to draw comparisons with the legal system of Pennsylvania. Through active listening skills, cooperative learning activities, hands-on activities, discussions and speakers from the criminal justice field, students will acquire knowledge of current legal practices.

Assessments will include but not be limited to case analyses, writing activities, written assessments, case analyses and analyses of articles from professional journals.

***20219D ISSUES IN 20TH CENTURY AMERICA/LCCC DUAL ENROLLMENT-HONORS CREDIT**

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: Courses 20201A/20202B and 20204A/20205B, teacher recommendation, sufficient score on LCCC placement test, and nominal per credit cost)

Students will learn United States History from post-World War II to present day. Students will learn about the Eisenhower Administration and the Korean War. They will examine the threat of communism and the Cold War. Discussion will also center around the Civil Rights Movement from 1954-1975. The Vietnam War will be a focal point of class discussion. Controversial topics, such as the JFK assassination, Nixon and Watergate, Reaganomics and Star Wars Defense, Iran-Contra Scandal, and the Clinton Impeachment proceedings, will also be analyzed. Essays and document readings will be a major part of this course due to the college credits that will be earned. Extensive outside reading lists are part of the course. In addition, students will complete the following required summer readings prior to the beginning of the course: *Coming of Age in Mississippi* by Anne Moody (ISBN# 0-440-31488-7), and *A Rumor of War* by Philip Caputo (ISBN# 978-0-8050-4695-3).

***20219E ISSUES IN 20TH CENTURY AMERICA**

(Grade 11, 12) (1.0 Elective Credit)

(Prerequisite: Courses 20201A or 20202B and 20204A or 20205B)

Students will learn United States History from post-World War II to present day. Students will learn about the Eisenhower Administration and the Korean War. They will examine the threat of communism and the Cold War. Discussion will also center around the Civil Rights Movement from The Vietnam War will be a focal point of class discussion. Controversial topics, such as the JFK assassination, Nixon and Watergate, Reaganomics and Star Wars Defense, Iran-Contra Scandal, and the Clinton Impeachment proceedings, will also be analyzed. Selected videos, CD ROMs, class trips and primary source documents will be used to enhance curriculum. Assessment will include written and oral reports, projects, exams, quizzes and cooperative learning activities.

20223W INFLUENCE OF SPORTS ON AMERICAN SOCIETY 1

(Grade 10,11,12) (0.5 Elective Credit) (Prerequisite: None)

Americans have exhibited a passion for sports as spectators and participants since the founding of this nation. This course examines how the development of sports in America has shaped and reflected American society culturally, socially, economically, and politically. Students will explore the foundation of sports in Ancient civilizations, the creation of modern sports in America, and the impact these sports play in areas of gender, race, and the overall progress of our nation.

20225W INFLUENCE OF SPORTS ON AMERICAN SOCIETY 2

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Course 20223W)

This course is a continuation to Influence of Sports on American Society 1. Students will apply previous knowledge of the development of sports in the United States and continue to explore the influence sports has had on our developing, modern nation. Students will discuss how television changed the face of sports in American society, investigate the business behind sports on the collegiate and professional levels, and research a wide variety of contemporary issues affecting the sports world today.

20226W CONTEMPORARY WORLD ISSUES

(Grade 10,11,12) (0.5 Elective Credit) (Prerequisite: None)

The aim of this course is to introduce students to events, trends and problems facing citizens and leaders in an increasingly interdependent world. Students will explore topics such as: climate change, water resources, energy issues, food supply, habitat preservation, world health topics, human rights, population growth/migration, pollution, standards of living, and globalization. Students will study and evaluate the issues from a variety of world perspectives and the class will act as a building block in creating an understanding of 21st century world issues. Daily and weekly news sources will serve as primary references for the organization and content of this course.

WORLD LANGUAGES***30301E GERMAN 1**

(Grade 9,10,11 and 12) (1.0 Credit)

(Prerequisite: Language Arts teacher recommendation)

Welcome to German 1! Through cooperative activities, technology-based exercises, and traditional assessments, students will speak, read and write to function successfully in a foreign language environment. Topics of study include: numbers and the alphabet, simple greetings and farewells, families, school schedules and the German education system, weather, cities and geography, shopping, making plans, German cuisine, and describing preferences and interests. Some basic grammar, such as verb conjugation, will also be covered.

***30302E GERMAN 2**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Course 30301E and teacher recommendation)

In German 2, students will begin by reviewing and expanding upon the knowledge and basic skills gained in German 1. As the course progresses, focus will fall upon the strengthening of those skills as well as the development and application of new skills in a variety of contexts. Students will consistently have an opportunity to develop their communication skills through interpreting spoken dialogues, reading selected passages and texts, creating their own conversations, and many other activities aimed to further proficiency with the target language. Culture and grammar are also both important aspects of the course, and topics of study include: shopping, birthdays and holidays, leisure time activities, travel, sports and music.

***30303E GERMAN 3**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Course 30302E and teacher recommendation)

Planning for the future? Let learning German open the door to opportunities around the globe! Students will begin by intensely reviewing German 1 and 2 material before quickly moving on to learn about complex grammar concepts and additional topics of study. These topics include: traveling, city and country living, ordering food and dining out, German shopping habits and customs, hobbies and interests, culturally significant holidays and events, health, driving, and even social media! Proficiency in all key language skills (reading, writing, listening, and speaking) will be emphasized.

***30304H HONORS GERMAN 4**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Course 30303E and teacher recommendation)

In German 4, students will demonstrate their control of almost all aspects of German grammar. They will also enhance their understanding of culture through reading short stories and authentic texts. Students will maintain a journal in this course. Assessment will include traditional testing of all four language skills and grading of journals and projects. Among the topics to be covered are the following: relationships with others, rights and responsibilities, German films and the media, advertising, prejudices, the environment, the art of living well, and plans for the future. Prior to the beginning of the course, students are required to complete a summer review packet which will be assessed at the start of the school year.

***30311E SPANISH 1**

(Grade 9,10,11 and 12) (1.0 Credit)

(Prerequisite: Language Arts teacher recommendation)

The Conquistadors conquered the world and so can you! Learn to communicate in another world language. Come along to a world of new experiences where students will learn the language spoken by millions of people in the 22 Spanish-speaking countries around the world, including right here in the United States! Students will use a variety of resources to see, hear, understand, and use the language. Students will also learn a basic understanding of the Hispanic culture. Activities are included to develop listening, speaking, reading, and writing skills. Students will demonstrate their achievement through oral conversation, speaking assessments, group work, writing, reading, projects, and cooperative learning activities. For additional practice, students are encouraged to utilize available online activities.

***30312E SPANISH 2**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Course 30311E and teacher recommendation)

Students will continue to learn and develop extensive language skills needed to engage in Spanish conversations related to daily activities in the present and the past tenses. Students will also strengthen all prior concepts learned and build upon understanding the basis of the Spanish language. They will continuously demonstrate their knowledge and understanding by confidently expressing themselves in Spanish through speaking assessments, cooperative learning activities, and written exercises.

***30313E SPANISH 3**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Course 30312E and teacher recommendation)

In Spanish 3, students continue their study of the language by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept(s), reading and listening comprehension activities, speaking and writing activities, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored.

***30314H HONORS SPANISH 4**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Course 30313E and teacher recommendation)

What distinguishes a true Spaniard from a “foreigner”? As all seasoned travelers will tell you, it is the use of the subjunctive in his speech and writing. Students in this course will strive to incorporate this mood into their everyday language. Through class discussions they will use works of Spanish literature to not only refine reading skills but verbal skills as well. Students will participate in various activities which practice the formal language skills. These include such things as listening to native speakers, small group oral work, the writing of essays, and projects utilizing technology. In addition to literature, the following themes will be covered: medical, maintaining a healthy lifestyle, travel, jobs and professions, after-school work, and volunteer activities. Prior to beginning the course, students will complete a required skills packet to refresh concepts learned throughout their Spanish careers. This assignment will serve as a review. The packet will be assessed at the start of the course.

MATHEMATICS

Notice to all students considering the following courses: CP Algebra 1, Core Algebra 1 A/B, CP Algebra 2, Honors Algebra 2, CP Algebra 3/Trigonometry, Honors Algebra 3/Trigonometry, Calculus, Advanced Placement Calculus, CP Statistics, Dual Enrollment Statistics, and Advanced Placement Statistics: Students in these classes will be expected to use a graphing calculator to graph and study functions as well as other features of the graphing calculator. While TI-84 calculators will be available for students' use during class, it is strongly recommended that students purchase their own graphing calculator for personal use.

40402X CORE ALGEBRA 1

(Grade 9,10) (2.0 Credits)

(Prerequisite: Recommendation from 8th grade teacher or placement test)

Note: This Algebra 1 course is taught over two periods during one academic year. The Algebra 1 Keystone Exam will be administered at the end of the course.

Students will continue to master algebraic concepts while exploring topics in greater depth. Concepts covered include solving and graphing linear equations and inequalities; solving and graphing systems of linear equations and inequalities; simplifying and evaluating expressions using exponents, absolute value, and radicals; simplifying and factoring polynomial and rational expressions; and solving quadratic equations. Students will work individually or in groups, demonstrating their understanding through projects, homework, quizzes, tests, IXL assignments, and classwork assignments. The Algebra 1 Keystone Exam will be administered at the end of the course. Upon completion of the Algebra 1 Keystone Exam, students will continue to master Algebra 1 concepts and begin preparation for Algebra 2.

40400B CORE ALGEBRA 1A

(Grade 9,10) (1.0 Credit) – This course is the first half of Core Algebra 1.

(Prerequisite: Recommendation from 8th grade teacher or placement test)

Note: This is an Algebra 1 course split into two years. Students who take Core Algebra 1A will also take Core Algebra 1B the following year. At the completion of both Core Algebra 1A and Core Algebra 1B, students will take the Algebra 1 Keystone Exam.

Students will gain an understanding of algebraic concepts while exploring topics in greater depth. Concepts covered include basic operations of real numbers, (both with and without a calculator), solving and graphing linear equations, solving and graphing inequalities, and recognizing functions and relations. They will develop problem-solving strategies while applying and strengthening skills. Individually or in groups, students will discuss and solve problems with appropriate technology. Students will demonstrate their knowledge and understanding through cooperative learning activities, projects, class discussions, homework, Study Island, and assessments involving problem-solving skills. Students will take the Core Algebra 1A Final Exam at the end of the course.

40403B CORE ALGEBRA 1B

(Grade 10) (1.0 Credit) – This course is the second half of Core Algebra 1.

(Prerequisite: Core Algebra 1A)

Students will continue to master algebraic concepts from Core Algebra 1A as they continue to learn concepts such as systems of equations/inequalities, rules of exponents, factoring polynomials, operations involving radical expressions, and quadratic equations. Students will demonstrate their knowledge and understanding through cooperative learning activities, projects, class discussions, homework, Study Island, and assessments involving problem-solving skills. The Algebra 1 Keystone Exam will be administered at the end of the course. Upon completion of the Algebra 1 Keystone Exam, students will continue to master Algebra 1 concepts and begin preparation for Algebra 2.

***40401X COLLEGE PREP ALGEBRA 1**

(Grade 9,10) (1.0 Credit)

(Prerequisite: Teacher recommendation from 8th grade teacher)

Students will strengthen their existing math skills while broadening their understanding of algebraic concepts. Concepts covered include solving and graphing linear/quadratic equations, solving and graphing inequalities, systems of equations, rules of exponents, factoring polynomials, operations involving radical and rational expressions, and quadratic equations. Individually or in groups, students will discuss and solve problems with appropriate technology. Students will demonstrate their knowledge and understanding through cooperative learning activities, projects, class discussions, homework, Study Island, and assessments involving problem-solving skills. The Algebra 1 Keystone Exam will be administered at the end of the course. Upon completion of the Algebra 1 Keystone Exam, students will continue to master Algebra 1 concepts and begin preparation for Algebra 2.

***40404A ACCELERATED ALGEBRA 1**

(Grade 9) (1.0 Credit)

(Prerequisite: Teacher recommendation)

Accelerated Algebra 1 is designed for the 9th grade student who has been highly successful in the 8th Grade Accelerated Math course in Middle School. The course covers all of the same topics as Algebra 1, but approaches the material in more depth using technology. The class emphasizes using the TI-84 graphing calculator to make tables and graph lines, graph linear inequalities, solve systems of equations by graphing and with matrices, and to use regression to find a line of best fit. The calculator will also be used to find measures of central tendency and display statistical graphs. The grade for the course is based on a number of assessments including tests, quizzes, class work, and Study Island. The Algebra 1 Keystone Exam will be administered at the end of the course. Upon completion of the Algebra 1 Keystone Exam, students will continue to master Algebra 1 concepts and begin preparation for Algebra 2.

40422B CORE GEOMETRY

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Core Algebra 1, Core Algebra 1 A & B and teacher recommendation)

This geometry course will emphasize a hands-on approach to concepts using models, activities, and dynamic geometric software. Students will understand and demonstrate concepts of perpendicular and parallel lines and planes, congruent and similar polygons, right triangles, circles and arcs, area and volume of plane and solid figures, and deductive and inductive reasoning. Students will demonstrate their achievement through homework, classwork, tests, quizzes and projects. Students will take the Core Geometry final exam at the end of the course.

***40421X COLLEGE PREP GEOMETRY**

(Grade 9,10,11,12) (1.0 Credit)

(Prerequisite: CP Algebra 1 or Accelerated Algebra 1 - Successful completion of Algebra 1 and teacher recommendation are required for students desiring to double up with CP Geometry and CP Algebra 2. Students who are not doubling up in Math should take CP Geometry before CP Algebra 2.)

CP Geometry students will learn geometric terms and will use both inductive and deductive reasoning in doing the following: solving lengths of segments and measures of angles, as well as completing direct and indirect proofs. Students will use logic, ratios, and Algebra 1 skills to solve multi-step geometric problems. In addition, students will understand proofs, logic statements, perpendicular and parallel lines and planes, congruent and similar polygons, right triangles, trigonometric ratios, circles and arcs, area, volumes of plane and solid figures, transformations, and compound and conditional probabilities. Assessments will include homework, classwork, quizzes, tests, and cooperative learning activities requiring problem-solving skills. Students will take the CP Geometry final exam at the end of the course.

***40423H HONORS GEOMETRY**

(Grade 9,10,11,12) (1.0 Credit)

(Prerequisite: CP Algebra 1 or Accelerated Algebra 1, and teacher recommendation. Students who are not doubling up with Honors Geometry and Honors Algebra 2 should take Honors Geometry first.)

Students will learn basic and advanced geometric concepts and apply them to real world problems. They will understand and use inductive and deductive reasoning to discover mathematical relationships. They will understand and recognize geometric shapes, ratio and proportion, similar triangles, basic trigonometric functions, and the properties of circles. Using individual and small group instruction, students will analyze the logic and necessary procedures to complete geometric proofs of theorems. Achievement will be demonstrated through the use of quizzes, tests, and cooperative learning activities. Students are responsible for completing a summer assignment for this course before the school year begins. Students will take the Honors Geometry final exam at the end of the course.

***40410X COLLEGE PREP ALGEBRA 2**

(Grade 9,10,11,12) (1.0 Credit)

(Prerequisite: CP Algebra 1 and teacher recommendation - Successful completion of Algebra 1 and teacher recommendation are required for students desiring to double up with CP Geometry and CP Algebra 2. Students who are not doubling up in Math should take CP Geometry before CP Algebra 2.)

Students will learn the set of complex numbers and its use in expressions, equations, functions, and graphs. They will understand how to simplify expressions and how to graph linear, quadratic, exponential, polynomial, rational, and radical equations. Also, they will learn how to represent these solutions in graphic form and practice general procedures applicable to problem situations. Working individually with a partner or in small groups, students will demonstrate their knowledge by applying appropriate skills. In addition, students will hone their graphing calculator skills to solve more complex problems. Assessments will include activities, projects, oral presentations, quizzes, and tests requiring problem learning skills. Students will take the CP Algebra 2 final exam at the end of the course.

***40411H HONORS ALGEBRA 2**

(Grade 9,10,11,12) (1.0 Credit)

(Prerequisite: CP Algebra 1, Accelerated Algebra 1, and teacher recommendation. Students who are not doubling up with Honors Geometry and Honors Algebra 2 should take Honors Geometry first.)

Students will learn and understand the concepts of relations, functions, and graphs of linear and quadratic equations and how to apply these concepts to the real world. They will understand the many forms of factoring and how it is related to solving polynomial equations. Students will know and understand the conic sections in addition to, exponential and logarithmic functions. Individually or in small groups, students will utilize the graphing calculator to analyze, discuss, and solve problems. Achievement will be demonstrated through tests, quizzes, homework assignments, graphing calculator exercises, activity sheets, projects, and performance assessments. Students are responsible for completing a summer assignment for this course before the school year begins. Students will take the Honors Algebra 2 final exam at the end of the course.

40426B MATH FOR MODERN LIVING

(Grade 11,12) (1.0 Credit)

(Prerequisite: Algebra 1, Core Geometry and teacher recommendation)

This course is designed for the career-bound student seeking a fourth math credit. By beginning with basic algebra skills and moving through a currently relevant curriculum, this course explores the various mathematical concepts needed to be successful in today's work environment. Topics include data analysis for modern living, being a smart statistician, understanding financial mathematics, using discrete math in real life situations, and applying geometric properties to solve problems. This final exam is a final project which covers all topics.

40462B CONSUMER MATH

(Grade 12) (1.0 Credit)

(Prerequisite: Teacher recommendation)

Students will learn how to manage money and solve personal finance problems. Students will understand mathematical operations and will use those skills to file income tax forms, apply for loans, reconcile checking accounts, and calculate gross and net pay. Moreover, they will analyze investments, insurance, and credit cards. Computer resources will be used to support and enhance student learning. Assessments will include the development of a working budget, projects, homework, class discussions, tests, and quizzes. Students will take the Consumer Math final exam at the end of the course.

40427X PRINCIPLES OF MATHEMATICS

(Grade 11,12) (1.0 Credit)

(Prerequisite: CP or Core level Geometry and Algebra 2, and teacher recommendation)

Principles of Mathematics is designed to meet the needs of students who need reinforcement with previous topics in algebra and geometry before they enter post-secondary studies in a non-math/science related field. These include number theory, linear and quadratic equations, graphs and functions, topics in measurement and geometry, statistics and data analysis, probability, and set theory. Students will take the Principles of Mathematics final exam at the end of the course.

***40431A COLLEGE PREP TRIGONOMETRY/ALGEBRA 3**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Course CP or Honors level Geometry and Algebra 2, and teacher recommendation)

Students will learn about the nature of graphs, polynomial functions, conic sections, logarithms, exponential functions, graphs and inverses of trigonometric functions, solutions to right and oblique triangles, and trigonometric identities and equations. These topics are explored by students working independently, with a partner, and in small groups. Achievement is demonstrated through tests, quizzes, activity sheets, projects, and oral demonstration of homework problems. Students will take the CP Trigonometry/Algebra 3 final exam at the end of the course.

***40432H HONORS TRIGONOMETRY/ALGEBRA 3**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Honors Geometry and Honors Algebra 2, and teacher recommendation)

Students will learn about relations, functions, trigonometry, and graphing. Furthermore, they will know how to graph polynomial, exponential, logarithmic, and trigonometric functions manually and by using the appropriate technology. Students will understand how to interpret information that is expressed as a function or as a graph. These skills and this knowledge will be acquired by students working independently, with a partner, and in small groups. Achievement will be demonstrated through tests, quizzes, cooperative learning activities, oral demonstration of homework problems, and projects. Students are responsible for completing a summer assignment for this course before the school year begins. Students will take the Honors Trigonometry/Algebra 3 final exam at the end of the course.

***40441X CALCULUS**

(Grade 11,12) (1.0 Credit)

(Prerequisite: CP or Honors Trigonometry/Algebra 3, and teacher recommendation)

This calculus course is for the advanced student in mathematics. Students will review the basic concepts relating to functions and graphs as needed throughout the course and will learn rules for differentiation, antidifferentiation, calculating limits, and determining continuity. Individually or in small groups, students will use appropriate technology to analyze and solve problems involving limits, continuity, optimization and displacement, velocity and acceleration. Achievement will be demonstrated through completion of graphing calculator activities, tests, quizzes, and homework assignments requiring problem-solving skills. Students will take the Calculus final exam at the end of the course.

***40451H ADVANCED PLACEMENT CALCULUS AB**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Honors Trigonometry/Algebra 3 or Calculus, and teacher recommendation)

Advanced Placement Calculus AB is for the student wishing to gain credit for one semester of college calculus by taking the Calculus AP examination which is given in May. Students will learn how to differentiate, integrate, calculate limits, and determine the continuity of functions. They will apply these skills to in-depth theoretical and real-life problems. Individually or in small groups, students will use appropriate technology to analyze and solve problems involving limits, optimization, differentials, related rates, curve sketching, separable differential equations, exponential growth and decay, average value, area between 2 curves, volumes of solids of revolution, and volumes of solids with known cross-sections. Achievement will be demonstrated through the completion of in-depth rigorous tests, quizzes, and homework assignments, which prepare the student for the AP Exam. Students are responsible for completing a summer assignment for this course before the school year begins. **In order to receive AP weight for this class, students must take the AP Exam in May.**

***40452H ADVANCED PLACEMENT CALCULUS BC**

(Grade 12) (1.0 Credit)

(Prerequisite: Successful completion of Calculus AP, Level AB and teacher recommendation)

This course is intended for students with an exceptional knowledge of analytic geometry, elementary functions, algebra, geometry and trigonometry. This course is geared toward the advanced mathematics student who will encounter higher mathematics in college in specialized fields such as engineering, science and/or mathematics. Topics to be studied include differentiation and applications, integration and applications, transcendental functions, methods of integration, polar coordinates, vectors and equations, infinite series and differential equations. This course requires frequent use of graphing calculators. It is strongly recommended that students have their own graphing calculator. Completion of this course will prepare the student for the Advanced Placement Calculus BC test in May. This course has a required summer assignment. **In order to receive AP weight for this class, students must take the AP Exam in May.**

***40461E COLLEGE PREP PROBABILITY AND STATISTICS**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Students must have successfully completed CP or Honors Algebra 2, and teacher recommendation)

Students will apply measures of central tendency to experiments, make predictions, determine and justify validity reliability, use sampling techniques to draw inferences about populations, compare odds and probability, construct valid arguments, and use logic truth tables. Students will use various technological aids to enhance student learning. Assessments will include projects, written and oral reports, tests, quizzes, and homework. Students will take the CP Probability and Statistics final exam at the end of the course.

***40461D PROBABILITY AND STATISTICS DUAL ENROLLMENT - HONORS**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Teacher recommendation, sufficient score on LCCC placement test, and nominal per credit cost)

This course is for the student seeking college-level credit in Probability and Statistics. Topics include the following: tabulation of data, measurements of central tendency and dispersion, sampling, types of distributions, probability, hypothesis testing and elementary aspects of correlation. Assessments will include quizzes, exams, practice exercises, case studies, individual and group projects, and a cumulative final exam. A graphing calculator is required. This course does not have a summer assignment.

***40461A ADVANCED PLACEMENT STATISTICS**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Completion of Honors Algebra 2 and completion or concurrent enrollment in CP Trigonometry/Algebra 3 or Honors Trigonometry/Algebra 3 and teacher recommendation)

Advanced Placement Statistics is equivalent to an introductory college level statistics course. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four main conceptual themes: exploring data, planning a study, probability as related to distributions, and statistical inference. This course is an excellent option for students with exceptional problem solving skills. This course does not have a summer assignment. **In order to receive AP weight for this class, students must take the AP Exam in May.**

40470W GRAPHING CALCULATOR CODING - STEM

(Grade 10,11,12) (0.5 Credit)

(Prerequisite: None)

This class is a fun introduction to coding and programming through the eyes of a mathematician. Students will learn the basics of programming, a critical skill for 21st Century careers, using the TI-84 CE calculator they carry in their backpacks every day. Throughout the course, students will build critical thinking skills and deeper understanding of math and programming concepts using the calculators, the Innovator Hub, and the Rover, a car that the calculator will maneuver. While the first part of the course will focus on basic coding skills, the topics will become more challenging as the course progresses and the students work with the Innovator Hub and the Rover.

COMPUTER SCIENCE

60625W COMPUTER SCIENCE DISCOVERIES

(Grade 9,10) (0.5 Elective Credit)

(Prerequisite: None)

The course takes a wide lens on Computer Science by covering topics such as programming, physical computing, HTML/CSS, and data. This introductory course empowers students to engage with Computer Science as a medium for creativity, communication, problem solving, and fun. Students will become inspired as they build their own websites, apps, games, and physical computing devices.

60627W CREATING MOBILE APPS

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course is an introductory mobile application design and programming course where students will learn how to design an app's user interface with the App Inventor Designer, and its behavior with the Blocks Editor. Creating Mobile Apps also uses "drag-n-drop" programming and progresses to developing original apps. Students will learn the components of a good app, color theory used in app design, and so much more such as image editing and story-boarding. By the end of the course, students will be able to successfully demonstrate a self-created app with real world application.

60628W THE BUSINESS OF GAME DEVELOPMENT

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Game Development is a game design course and much more. The design process of planning, implementing, reviewing, and adjusting will be utilized as students create and program their games. Technical skills such as programming, graphic design, animation, testing and debugging will be taught in this course. Game Development will begin with drag-n-drop programming and advance to more complex projects that involve writing code. Students will also explore the dramatic elements and narrative design behind games. Once students have learned how to develop and program a game, they will investigate the business of game design and strategies to market an original game idea.

60629W THE BUSINESS OF GAME DEVELOPMENT 2

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Business of Game Development 1)

The Business of Game Development 2 will launch students deeper into the game design and marketing process. Skills acquired in level one will be reviewed and expanded upon through the use of more robust software. Furthermore, students will be asked to extend their prior projects created in the level one course to show the advanced use of design elements, coding, and analyzation. At the completion of this course, students will have planned, developed, and field-tested an original computer game using the provided software. Additionally, students will create an innovative marketing plan and materials for their original creation.

40470W GRAPHING CALCULATOR CODING - STEM

(Grade 10,11,12) (0.5 Credit)

(Prerequisite: None)

This class is a fun introduction to coding and programming through the eyes of a mathematician. Students will learn the basics of programming, a critical skill for the 21st Century careers, using the TI-84 CE calculator they carry in their backpacks every day. Throughout the course, students will build critical thinking skills and deeper understanding of math and programming concepts using the calculators, the Innovator Hub, and the Rover, a car that the calculator will maneuver. While the first part of the course will focus on basic coding skills, the topics will become more challenging as the course progresses and the students work with the Innovator Hub and the Rover.

40469W INTRODUCTION TO COMPUTER PROGRAMMING

(Grade 9,10,11,12) (0.5 Credit)

(Prerequisite: None)

Introduction to Computer Programming is a course designed to introduce students to programming in a captivating manner while simultaneously building problem-solving skills and an understanding of the thinking methods used by programmers. The course will teach students how to write their first programming language using the Python language. The course is predicated on the notion that learning about programming and computer science should be fun and engaging. All units are project-based, and physical items, such as programmable robots, will be used to teach and apply the Python language.

40473W COMPUTER PROGRAMMING USING C++

(Grade 10,11,12) (0.5 Credit)

(Prerequisite: None)

Students will use the Microsoft Visual Studio IDE or JDoodle website compilers to learn the fundamentals of programming in the C++ language. The course begins with learning the basics of structured programming, including if...else, loops and functions. The student will then move on to the concepts of object-oriented programming. The student will learn to use ready-made classes to simplify work with strings, arrays, stacks and queries. Students will demonstrate their achievement of the outcomes of the course through the completion of programs, projects, and tests. Students will take the C++ final exam at the end of the course.

40474W COMPUTER PROGRAMMING USING JAVA

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Course 40473E)

Students will use Eclipse or the JDoodle website composer to program in the Java Language. The course begins with learning the basics of structured programming, including if...else, loops and functions. The student will move on to the concepts of object-oriented programming. The student will implement classes of software libraries. The student will design classes which instantiate objects and call subroutines from parent programs. Student will demonstrate their achievement of the outcomes of the course through the completion of programs, projects, and tests. Students will take the Java final exam at the end of the course.

40476H HONORS COMPUTER SCIENCE PRINCIPLES**40477H ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES**(Grade 10,11,12) (1.0 Credit - **May be taken for AP Computer Science Credit**)

(Prerequisite: Completion or concurrent enrollment in CP/Honors Algebra 2 and/or successful completion of one or more of the following courses: CS Discoveries, Creating Mobile Apps, Business of Game Development, and Web Design)

AP Computer Science Principles introduces students to the core ideas of computer science. It instills the ideas and practices of computational thinking and allows students to understand the ever changing world of computing. This course emphasizes the impact that advancements in computing have on society and goes beyond the study of machines and systems to give students the opportunity to investigate computing innovations that span many interests. The AP Computer Science Principles course does not have a designated programming language, but will use programming languages that are most appropriate to use for specific activities. Assessments will include quizzes, exams, practice exercises, individual and group projects, and a cumulative final exam. Both course levels will complete a final performance task/project. Students are responsible for completing a summer assignment for this course before the school year begins. Please refer to the Summer Reading section of the high school website for more details. **In order to receive AP weight for this class, students must take the AP Computer Science Principles Exam in May as well as complete the project based assessment that is critiqued by national guidelines.**

***40478H ADVANCED PLACEMENT COMPUTER SCIENCE A**(Grade 10,11,12) (1.0 Credit - **May be taken for AP Computer Science Credit**)

(Prerequisite: Completion or concurrent enrollment in Algebra 2 and successful completion of one or more of the following courses: Advanced Placement Computer Science Principles, Computer Programming Using C++ or Java, Computer Science Discoveries, Creating Mobile Apps, Business of Game Development, and Web Design 1 or 2)

AP Computer Science A engages students in advanced topics of computer science. This course emphasizes problem solving, design strategies, methodologies, organization of data, and approaches to processing data. The course compares object-oriented programming with procedural programming. AP Computer Science A is taught using specific packages in the Java Programming language namespace. The current version of *Eclipse* or JDoodle website compilers will be used as the Java Integrated Development Environment (IDE). Emphasis will be on the following structures: classes, interfaces, enumerations, and annotation types. Java Applets will also be introduced. Assessments will include quizzes, exams, practice exercise, individual and group

projects, and a cumulative final exam. Although there is not a formal summer assignment for this class, students are encouraged to become more familiar with Java by completing an Overview of Java assignment as outlined in the Summer Reading section of the high school website. **In order to receive AP weight for this class, students must take the AP Computer Science A Exam in May as well as complete a project based assessment that is critiqued by national guidelines.**

60633W WEB DESIGN 1

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Basic computer and keyboarding skills are necessary)

Students will learn how to create web pages, format the pages, add graphics to the pages, and create forms with this introduction to HTML. This course will include the coverage of tables, frames, cascading style sheets, and Web Design considerations. The focus of this course will be to learn the basics of Web Design in order to design pages for the Whitehall High School Website.

60634W WEB DESIGN 2

(Grade 11,12) (0.5 Elective Credit)

(Prerequisite: Web Design 1)

This course is designed for students who have successfully completed Web Design 1 and would like to move on to more advanced web design and development. JavaScript, dynamic HTML, and database integration are some of the new web design features to be covered. Students will learn project management, communication, and leadership skills, as a result of performing group work.

SCIENCE

50541B CORE ENVIRONMENTAL SCIENCE

(Grade 9) (1.0 Credit)

(Prerequisite: None)

In this course, students will develop a basic understanding of the interactions between living things and the world around them. Students will use a systems approach to learn about: ecology and ecosystems; biodiversity and sustaining biodiversity; and environmental quality, management, and concerns. Throughout this course students will be challenged to discuss and seek solutions to the problems caused by human impact on natural mechanisms. Achievement will be demonstrated through a variety of methods including: laboratory investigations (physical and virtual), current events, research, projects, cooperative learning activities, and quizzes/tests.

***50541A COLLEGE PREP ENVIRONMENTAL SCIENCE**

(Grade 9) (1.0 Credit)

(Prerequisite: None)

In this course, students will develop a strong understanding of the interactions between living things and the world around them. Students will use a systems approach to learn about: ecology and ecosystems; biodiversity and sustaining biodiversity; and environmental quality, management, and concerns. Throughout this course students will be challenged to discuss and seek solutions to the problems caused by human impact on natural mechanisms. Achievement will be demonstrated through a variety of methods including: laboratory investigations (physical and virtual), current events, research, projects, cooperative learning activities, and quizzes/tests.

50512B CORE BIOLOGY

(Grade 10) (1.0 Credit)

(Prerequisite: None)

Students will develop a basic understanding of the major concepts and techniques of biology. They will learn about the chemical basis for life, cell structure and function, energy transformations through photosynthesis and cellular respiration, cell growth and reproduction, genetics and the inheritance of traits, and finally the evolution of life and diversity on Earth. Students will use scientific problem-solving skills in both laboratory and case-study scenarios. Achievement will be demonstrated through cooperative learning activities, laboratory and virtual investigations, and quizzes/tests.

***50511A COLLEGE PREP BIOLOGY**

(Grade 10) (1.0 Credit)

(Prerequisite: None)

Students will develop an understanding of the major concepts and techniques of biology. They will learn about the chemical basis for life, cell structure and function, energy transformations through photosynthesis and cellular respiration, cell growth and reproduction, genetics and the inheritance of traits, and finally the evolution of life and diversity on Earth. Students will use scientific problem-solving skills in both laboratory and case-study scenarios. Achievement will be demonstrated through laboratory investigations, short research projects, cooperative learning activities, virtual investigations, and quizzes/tests.

***50513H HONORS BIOLOGY**

(Grade 9,10) (1.0 Credit)

(Prerequisite: Completion of Algebra 1 or concurrent enrollment in Accelerated Algebra 1 and science teacher recommendation)

Students will develop an in-depth understanding of the major concepts and techniques of biology. They will learn about the chemical basis for life, cell structure and function, energy transformations through photosynthesis and cellular respiration, cell growth and reproduction, genetics and the inheritance of traits, the evolution of life and diversity on Earth, and finally the interconnectedness of our ecosystems. Students will use scientific problem-solving skills in both laboratory and case-study scenarios. Achievement will be demonstrated through laboratory investigations, short research projects, cooperative learning activities, virtual investigations, and quizzes/tests. Assessments will include formal lab reports, research papers, projects, worksheets, quizzes and tests. In addition, students will complete a summer assignment prior to the beginning of the course. See the Summer Reading section of the high school website for assignment information.

***50514H ADVANCED PLACEMENT BIOLOGY**

(Grade 11,12) (2.0 Credits)

(Prerequisite: Completion of CP Biology/Honors Biology, CP Chemistry/Honors Chemistry and science teacher recommendation.)

AP Biology is designed to be the equivalent of a two-semester college introductory biology course. The goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. This course will emphasize and foster the development of a conceptual understanding rather than memorizing terms and technical details. Great emphasis will be placed on science as a process rather than the accumulation of facts, personal experience in scientific inquiry, recognition of unifying themes that integrate the major topics of biology, and application of biological knowledge and critical thinking to environmental and social concerns. Students will be required to complete a summer assignment for this course. Please see the high school website for assignment and rubric details. During the first week of class, the students will turn in their work and present their projects. **In order to receive AP weight for this class, students must take the AP Exam in May.**

50522B CORE CHEMISTRY

(Grade 11,12) (1.0 Credit) – Formerly called Applied Chemistry

(Prerequisite: Algebra 1 or Core Algebra 1A/B)

Students will learn the fundamental principles of chemistry and their application to daily life. They will demonstrate their understanding through their participation in laboratory investigations, analysis, problem solving, and data interpretation. Achievement will be demonstrated through laboratory reports, homework, quizzes, tests and projects.

***50521A COLLEGE PREP CHEMISTRY**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Completion of Algebra 1 and CP Biology)

This course is designed for the college-bound student who may or may not major in the sciences. Students will learn the basic structure of atoms, ions, and molecules and how they determine properties of matter. They will also learn chemical bonding, reactions, the periodic table, the mole concept, gas laws, writing chemical formulas, and dimensional analysis method to solve problems. Students will understand and use the scientific method of inquiry by solving problems in the laboratory. Working individually and in small groups, students will analyze and interpret data. Achievement will be demonstrated through tests, quizzes, laboratory investigations, homework, and projects.

***50523H HONORS CHEMISTRY 1**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Successful completion of both Algebra 1 and CP/Honors Algebra 2 with science teacher recommendation)

This course is designed for students who have a solid background in math and science. Throughout this course, students will learn a variety of concepts including the structure, composition and behavior of matter. A solid mathematical background is necessary for students to develop an in-depth knowledge of dimensional analysis, chemical reactions, the mole, stoichiometry, and gas laws. Students will use the scientific method of inquiry to solve problems. Through laboratory investigations, students will collect, analyze and interpret data to prepare laboratory reports. Achievement will be demonstrated through tests, quizzes, laboratory reports, homework and projects. This course has a summer assignment requirement. See the Summer Reading section of the high school website for assignment information.

***50524H HONORS CHEMISTRY 2**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Previously completed or concurrently enrolled in Trigonometry/Algebra 3 and successfully completed Chemistry with Chemistry teacher recommendation.)

Students will study equilibrium and solubility, chemistry of acids and bases, titrations, kinetics and thermodynamics, theoretical structure of atoms and descriptive chemistry. Reduction/Oxidation (REDOX) reactions and electrochemistry will complete the study of the electronic structure of the atom. Working individually and in small groups, students will use critical-thinking skills to analyze and interpret data and scientific information. Achievement will be demonstrated through a variety of assessments, including tests, college-level experiments and projects. Over the summer, students will be required to complete a review assignment of Chemistry I. This course has a summer assignment requirement. See the Summer Reading section of the high school website for assignment information.

***50525H ADVANCED PLACEMENT CHEMISTRY**

(Grade 11,12) (2.0 Credits – Full Year)

(Prerequisite: Previously completed or concurrently enrolled in Trigonometry/Algebra 3 and successfully completed Chemistry with Chemistry teacher recommendation.)

This course prepares students for the Advanced Placement Chemistry Examination in May. Students will experience a solid first-year college chemistry course both conceptually and in the laboratory. Problem-solving skills, both on paper and in the lab, are emphasized. Topics such as the structure of matter, kinetic theory, thermodynamics, chemical equilibria, chemical kinetics, electrochemistry, and organic chemistry, are now being presented in considerable depth. Over the summer, students will be required to complete a review assignment of Chemistry 1. See the Summer Reading website for assignment details. **In order to receive AP weight for this class, students must take the AP Exam in May.**

***50532B CORE PHYSICS**

(Grade 11,12) (1.0 Credit) – Formerly called Applied Physics

(Prerequisite: Success Completion of Algebra 1)

Students will study Newton's laws of motion, momentum, energy, optics, electricity and magnetism and their application to everyday life. They will demonstrate their understanding through their participation in laboratory investigations. An emphasis is placed on the concepts of physics, not on the mathematical evaluation of physics. Achievement will be demonstrated through varied assignments, either individually or group, requiring data gathering and analysis and application of physics principles.

***50532A COLLEGE PREP PHYSICS**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Previously completed or concurrently enrolled in Trigonometry/Algebra 3)

Students will study the fundamental laws that govern physical, chemical, and biological processes. Topics covered will include Newton's Laws of Motion, Momentum, Energy, Waves, Light and Optics. Students will demonstrate their knowledge by using the computer, participating in laboratory investigations, homework, projects, quizzes and tests.

***50531H HONORS PHYSICS**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Previously completed or concurrently enrolled in Trigonometry/Algebra 3 or Honors Trigonometry/Algebra 3 and science teacher recommendation)

Students will learn the behavior and structure of matter including Newton's Laws of Motion, Momentum, Energy, and Optics. They will comprehend the importance of using graphs, a necessary tool in determining mathematical relationships observed in various experiments. Students will demonstrate their knowledge by using the computer, participating in laboratory investigations, projects, quizzes and tests. In addition, students must complete a required summer assignment prior to the beginning of the school year. See the Summer Reading section of the high school website for assignment information.

***50533H ADVANCED PLACEMENT PHYSICS 1**

(Grade 11,12) (2.0 Credit)

(Prerequisite: Completion of Trigonometry with preferred concurrent enrollment in Calculus and science teacher recommendation)

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: kinematics; dynamics; circular motion and gravitation; energy; momentum; simple harmonic motion; torque and rotational motion; electric charge and electric force; DC circuits; and mechanical waves and sounds. AP Physics 1 is a full-year course that is equivalent of a first-semester introductory college course in algebra-based physics. Trigonometric applications are prevalent throughout the course. Students will explore hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to demonstrate and apply the foundational physics principles. Over the summer, students will be required to complete a review assignment of algebra 1, geometry, and trigonometry. See the Summer Reading section of the high school website for assignment information. **In order to receive AP weight for this class, students must take the AP Exam in May.**

***50544X ZOOLOGY – PA WILDLIFE**

(Grade 11,12) (1.0 Credit)

(Prerequisite: Core Biology or CP Biology)

Students will learn about the fascinating fish, birds, reptiles, amphibians, and mammals of Pennsylvania. Students will learn to identify these animals, and they will investigate how they live and grow. Students will investigate many other wildlife-related topics such as the anthropomorphizing and sensationalizing of wildlife, the science of wildlife management. Achievement will be demonstrated through a wide variety of quizzes, tests, reports, and performance evaluations.

***50541X ENVIRONMENTAL SCIENCE**

(Grade 11,12) (1.0 Credit)

(Prerequisite: CP Biology)

In this academic level course, students learn about ecosystem structure and function in terms of material and energy utilization and distribution. Students will learn about the natural mechanisms that ecosystems use to enable homeostasis, and they will investigate what happens when those mechanisms fail. Other topics will include animal and human population biology, problems and solutions associated with human population growth, inorganic and organic waste management, and pollution control. The course focuses on understanding natural mechanisms, considering human impact on natural mechanisms, and seeking solutions to the problems, caused by human impact on natural mechanisms. Achievement will be demonstrated through a variety of methods including: laboratory investigations, short research projects, cooperative learning activities, virtual investigations, and quizzes/ tests.

***50547A FORENSIC SCIENCE**

(Grade 11,12) (1.0 Credit)

(Prerequisite: CP Biology and completed or concurrently enrolled in CP Chemistry)

This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions. The course will include case studies and examinations of reproduced evidence from actual crimes as well as laboratory analysis of evidence gathered at simulated crime scenes.

***50550A HUMAN BIOLOGY**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Successful completion of Core, CP, or Honors Biology)

This course is primarily designed for students who, upon graduation, plan to enter careers that provide support and technical services in the healthcare field. Learners will gain a basic understanding of how the human body functions by exploring the major systems such as the skeletal, muscular, cardiovascular, digestive, respiratory, and nervous systems and diseases of these systems. Advancements in the medical field will also be investigated including medical imaging, tissue engineering, and stem cell treatments. Students intending to pursue an advanced degree in medicine (nursing or pre-medicine for physical therapy, dentistry, etc.) should enroll in Honors Anatomy and Physiology.

***50552H HONORS ANATOMY AND PHYSIOLOGY**

(Grade 10, 11,12) (1.0 Credit)

(Prerequisite: Successful completion of CP Biology or Honors Biology and science teacher recommendation)

Students will learn the structure and function of the human body. They will understand that the human body is a highly integrated organism, which is dependent on the organization of its component systems to maintain its function. Using critical thinking and problem-solving skills, students will understand the interdependence of body systems and the consequences of the destruction of homeostasis upon those systems. Students will demonstrate their achievements through laboratory investigations including a cat dissection, case studies, research projects, laboratory practical exams, and tests. This honors level course requires students to complete a summer assignment prior to the start of the school year. See the Summer Reading website for assignment details and rubric. The summer assignment will be assessed at the start of the school year.

***50551H HONORS GENETICS**

(Grade 10,11,12) (1.0 Credit)

(Prerequisite: Successful completion of CP Biology or Honors Biology and science teacher recommendation)

Students will learn about DNA regulation, genetic screening, current genetic research and advancements, mutations at the gene and chromosome levels, population genetics, Mendelian genetics, patterns of inheritance and pedigrees. Students will understand real-life genetic applications such as genetic engineering, gene therapy, and DNA fingerprinting. Working individually or in small groups, students will analyze and interpret data, as well as scientific literature concerning research in genetic technology and the field of genetics as a whole. Students will demonstrate their achievement through tests, laboratory investigations, case studies, scientific articles, projects, and cooperative learning activities. In addition, students will complete a summer assignment for this honors level course. See Summer Reading website for assignment details.

50545H HONORS EMERGING HEALTH PROFESSIONS

(Grade 12) (4.0 Credits)

(Prerequisite: Core Biology, CP Biology or Honors Biology, a valid driver's license and provide your own transportation to the internship, job, or volunteer site within two weeks from start of program; application and special criteria required.

Participants are responsible for the cost of the post-secondary courses, additional fees, and required textbooks).

The Emerging Health Professionals Program provides high school seniors with an opportunity to experience a variety of health care careers in a hospital setting and take Penn State/Lehigh Carbon Community College science courses for college credit. Students spend one day a week rotating among various departments of a hospital. Students will experience these departments through the three Lehigh Valley Hospital & Health Network facilities, St Luke's University Health Network Allentown Campus, Country Meadows, and Good Shepherd Rehabilitation Network. The hospital portion of the program provides students with observational experience that enables students to observe various health career professionals as they work with patients. Also, students have the opportunity to meet various health career professionals during presentations with the LVHN community. In addition to these experiences, students are given an overview of the health care industry and all that it entails throughout their coursework at LCTI. **This program is only available to senior students.**

BUSINESS

According to USA Today College, Business Administration is the number one major for college students, comprising 20% of college graduates. Business education's role is extremely valuable as it affects every aspect of a person's life. Students are afforded an opportunity to learn firsthand life skills in managing personal finances, understanding their consumer powers and responsibilities especially in major purchases, honing computer skills, and becoming knowledgeable of the law. By enrolling in business classes, students have the advantage of a sound foundation whether they continue their business education or apply their newly acquired skills in immediate employment or to another area of studies. As students learn more about business, they can make business work to their advantage personally and professionally.

60600W CAREER EXPLORATION AND TECHNOLOGY

(Grade 10) (0.5 Elective Course)

(Prerequisite: None)

Note: Starting with the graduating Class of 2018, Career Exploration and Technology is a required elective for all Grade 10 students. Students who participate in an LCTI program in Grade 10 are exempt from taking this course.

Students will analyze career options based on individual interests, abilities, aptitude, goals and achievements. Using Internet based systems, job shadowing, career-focused activities, and community service; students will gain insight to career possibilities. In addition, time management skills will be emphasized and personal learning styles will be identified using self-assessments. An electronic portfolio will be created which includes Career Awareness and Preparation (self-assessments, research careers educational paths and options); Career Acquisition (resumes, cover letters, job search techniques); Career Retention and Advancement (team building, problem solving, workplace scenarios); Entrepreneurship (qualities necessary for success and simple business plans). The documentation created in this course can be used to obtain employment, prepare for a career, and apply to colleges. Students will be required to complete a job shadowing experience or alternative career related activity during this course.

60604W DIGITAL LITERACY

(Grade 9,10) (0.5 Elective Credit)

(Prerequisite: None)

Digital Literacy will enable students to become proficient in Google and Microsoft software applications while providing the necessary technology skills to succeed whether college bound or pursuing a selected career. Participants will learn the intricacies of spreadsheets, word processing and multimedia presentations techniques. Through dynamic real world exercises and projects students will gain confidence as a presenter while honing their technology skills. Spreadsheet techniques will be used to collect, organize and calculate data in order to solve realistic problems and form data-driven decisions. Students will express their individuality and creativity as writers and designers by integrating virtual research into professional multimedia presentations. Students will also explore the technology revolution and the way it is transforming modern society.

60625W COMPUTER SCIENCE DISCOVERIES

(Grade 9,10) (0.5 Elective Credit)

(Prerequisite: None)

The course takes a wide lens on Computer Science by covering topics such as programming, physical computing, HTML/CSS, and data. This introductory course empowers students to engage with Computer Science as a medium for creativity, communication, problem solving, and fun. Students will become inspired as they build their own websites, apps, games, and physical computing devices.

60627W CREATING MOBILE APPS

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course is an introductory mobile application design and programming course where students will learn how to design an app's user interface with the App Inventor Designer, and its behavior with the Blocks Editor. Creating Mobile Apps also uses "drag-n-drop" programming and progresses to developing original apps. Students will learn the components of a good app, color theory used in app design, and so much more such as image editing and story-boarding. By the end of the course, students will be able to successfully demonstrate a self-created app with real world application.

60628W THE BUSINESS OF GAME DEVELOPMENT

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Game Development is a game design course and much more. The design process of planning, implementing, reviewing, and adjusting will be utilized as students create and program their games. Technical skills such as programming, graphic design, animation, testing and debugging will be taught in this course. Game Development will begin with drag-n-drop programming and advance to more complex projects that involve writing code. Students will also explore the dramatic elements and narrative design behind games. Once students have learned how to develop and program a game, they will investigate the business of game design and strategies to market an original game idea.

60629W THE BUSINESS OF GAME DEVELOPMENT 2

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Business of Game Development 1)

The Business of Game Development 2 will launch students deeper into the game design and marketing process. Skills acquired in level one will be reviewed and expanded upon through the use of more robust software. Furthermore, students will be asked to extend their prior projects created in the level one course to show the advanced use of design elements, coding, and analyzation. At the completion of this course, students will have planned, developed, and field-tested an original computer game using the provided software. Additionally, students will create an innovative marketing plan and materials for their original creation.

60633W WEB DESIGN 1

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Basic computer and keyboarding skills are necessary)

Students will learn how to create web pages, format the pages, add graphics to the pages, and create forms with this introduction to HTML. This course will include the coverage of tables, frames, cascading style sheets, and Web Design considerations. The focus of this course will be to learn the basics of Web Design in order to design pages for the Whitehall High School Website.

60634W WEB DESIGN 2

(Grade 11,12) (0.5 Elective Credit)

(Prerequisite: Web Design 1)

This course is designed for students who have successfully completed Web Design 1 and would like to move on to more advanced web design and development. JavaScript, dynamic HTML, and database integration are some of the new web design features to be covered. Students will learn project management, communication, and leadership skills, as a result of performing group work.

60601W INTRODUCTION TO BUSINESS

(Grade 9,10) (0.5 Elective Credit)

(Prerequisite: None)

Students will learn many of the basic business practices prevalent in the economic world surrounding us. Students will understand and solve problems relating to banking, writing checks, buying, credit, career choices, general economic information, business organizations, and other business-related activities. Students will understand that business activities and transactions are a major component of our economy. Everyone interacts with business on a daily basis as a consumer, citizen, and worker.

60621X ACCOUNTING 1

(Grade 9,10,11,12) (1.0 Elective Credit)

(Prerequisite: None)

Accounting I provides entry-level job skills and is recommended for any student who is planning to major in a business-related field in college. Students will understand basic accounting and equation application in order to prepare and analyze business records. In addition, students will receive hands-on experience in learning basic tasks involved in the accounting cycle using journals, ledgers and financial statements, both manually and electronically. Students will also complete a comprehensive simulation. Accounting I and II are recommended for any student who is planning to major in a business-related field in the post-secondary level.

60622X ACCOUNTING 2

(Grade 10,11,12) (1.0 Elective Credit)

(Prerequisite: Accounting 1)

Students will learn the advanced accounting cycle for a merchandise business organized as a corporation. Concepts will include the use of the five special journals, posting, preparing payroll records, taxes and reports, worksheets for a merchandise business, financial statements for a corporation and recording adjusting and closing entries for a corporation. Students will enter data in journals and ledgers both manually and electronically. Students will also complete business forms and audit their results. Students will also complete a comprehensive simulation. Accounting I and II are recommended for any student who is planning to major in a business-related field in the post-secondary level.

***60602X BUSINESS LAW**

(Grade 10,11,12) (1.0 Elective Credit)

(Prerequisite: None)

Students will learn about their rights and responsibilities as a student, minor, citizen, and consumer. They will understand how the laws that we follow today have developed from the early English Common Law and Roman Code. Moreover, students will apply legal concepts dealing with crimes, torts, and contract law to everyday life situations. Achievement will be demonstrated through the completion of objective and subjective tests, simulations, oral presentations and projects.

60640W ENTREPRENEURSHIP

(Grade 10,11,12) (0.5 Elective Credit)

(Suggested Prerequisite: Intro to Business)

Students will understand what it takes to run a successful business. They will have the opportunity to use creativity and reasoning skills to create a product, buy an existing business, or start a new business. Students will examine business elements and become familiar with the components of a business plan that includes a description, demographics, financials, marketing plans, and location analysis for their own business.

60605W SPORTS AND ENTERTAINMENT MARKETING

(Grade 10,11,12) (0.5 Elective Credit)

(Suggested Prerequisite: Intro to Business)

Students will learn key Marketing Concepts using real examples from the sports and entertainment industry. Pricing, Product/Service Management, Promotion, Distribution, and Selling are covered using an industry that brings relevance to students. They will use a variety of review and assessment activities that will reinforce the seven marketing functions. Students will learn skills that translate to career preparation, exploration, and entrepreneurship.

60620E PERSONAL FINANCE

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: None)

This course exposes students to important financial issues they are likely to encounter in their lives and their rights and responsibilities regarding these issues. Topics include how your choices affect income; income, benefits and taxes; your purchasing power; financial decisions and planning (budgeting); banking (checking, savings and investments); personal risk management; and responsible use of credit. This knowledge will increase students' abilities to manage their finances in a responsible and intelligent manner.

TECHNOLOGY AND ENGINEERING

70700W INTRO TO ENGINEERING DESIGN, DRAFTING, AND CADD

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Take a varied look into the many facets of drafting and computer aided design (CADD). This course will give students a broad-based exposure to skills that will help them become future designers in various fields. Activities include exercises in mechanical drawing, drawing geometry, multi-view projection, and 3-dimensional representation through computer-aided design as well as traditional drawing methods. Introduction to Engineering Design, Drafting and CADD would be a valuable course as an introduction to other engineering and manufacturing technology classes.

70701W INNOVATION THROUGH ENGINEERING - STEM

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: Successful completion of Intro to Engineering Design, Drafting & CADD)

Students will apply the Technological Design Process through open-ended problem solving. The application of the design process, along with machines, various materials and informational resources, will result in the processes of invention and innovation to solve complex real world problems. This class is a laboratory based, hands and minds on activity which students will employ science, technology, engineering and mathematics individually as well as in teams in order to create prototype models which will be tested and analyzed. SolidWorks software, laser cutters, 3D Printers, as well as traditional machinery can be utilized to develop their proposal. Student and teacher driven assignments will be used in order for students to grasp and apply the processes engineers use daily for successful project development. This course would be applicable for any student interested in a technical career as well as those pursuing any engineering, design, or STEM based careers.

70702W INTRODUCTION TO ELECTRONICS AND ROBOTICS

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Course previously called Introduction to Electronics In Our World – students who completed this course are not eligible to enroll in Introduction to Electronics and Robotics.

Electricity drives all modern technology we use at home and school. Gain a better understanding of how electronic circuits work through lab experiments, computer simulations, and other instructional media. This course will emphasize how electronics affect our life and how we rely on its development. Students will also explore the use of robotics by building and coding robotics in real time and through simulations. A laboratory fee may be imposed for projects.

70705W FOUNDATIONS OF MECHANICAL ENGINEERING

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

In this course, students use the technological design method to create and build models of transportation and energy systems. This stem based class will enable students to apply science, technology, math, and engineering concepts as they compete to engineer the best possible solution. Students will develop an understanding of problem solving, model development, and design analysis.

70706W INTRODUCTION TO WOOD MANUFACTURING

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will design and create wooden signs, clocks, and logos. An introduction to CorelDraw and Aspire software will be explored. Basic woodworking skills, safe machine, and tool operations will be emphasized. Assessments will be based on projects, participation, and safety. Introduction to Wood Manufacturing would be a valuable course as an introduction to other engineering and manufacturing technology classes.

70708W INTERMEDIATE WOOD MANUFACTURING

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will develop an awareness of the technologies used to design and manufacture wooden products through the production of wooden household and kitchen accessories. Basic CNC (computerized numerical control) machinery and (CAD) computer design skills will be developed. Woodworking machine and tool operating procedures and safety will be emphasized. Students will utilize teacher and student designed products utilizing a CAD system (computer aided design) to learn the fundamentals of design. Assessments will be based on projects, CAD plots, participation, and safety.

70710W ADVANCED WOOD MANUFACTURING - STEM

(Grade 10,11,12) (1.0 Elective Credit)

(Prerequisite: Intermediate Wood Manufacturing) This course is not Honors weighted.

Students will apply the principles of science, technology, engineering and math to design, produce, and analyze an individual mechanized project utilizing complex tool and machine processes. Concepts learned from the Introduction and Intermediate Wood Manufacturing classes will be employed in order to facilitate advanced design, tool and machine skills and evaluate product prototypes designed and produced by the student. This course would be beneficial to, but not limited to, those students interested in engineering, design, manufacturing technology, automated machine processes, computer aided design careers, or any of the trades. Evaluations will be based on class participation, project evaluations, project analysis reports, and safety competency tests. A laboratory fee may be imposed to cover additional project hardware.

FAMILY AND CONSUMER SCIENCE**80800W BAKING AND NUTRITION**

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will learn the basic skills needed to function in the kitchen. Topics to be covered include safety, sanitation, and food preparation techniques specific to mixing, tempering and baking cakes, pies, cookies, quick breads, yeast breads, and candy making. Teacher demonstrations and student hands-on lab activities will be used to prepare delicious foods. Underlying concepts of food science and nutrition will be emphasized throughout the course.

80802W COOKING AND NUTRITION

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will learn the basic skills needed to function in the kitchen. Topics to be covered include safety, sanitation, and food preparation techniques specific to hearty cooking with a basis in nutritionally sound foods. Topics will be Nutrition, Grains, Dairy, Vegetables, Fruits, and Proteins. Teacher demonstrations and student hands on lab activities will be used to prepare delicious foods. Underlying concepts of food science and nutrition will be emphasized.

80804W AMERICAN CUISINE

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: "Baking and Nutrition" or "Cooking and Nutrition")

This course expands on cooking learned through students' first courses. The exploration of the USA will be centered around the cuisines found in various regions. They will compare early cuisine to modern day foods, explore regional cooking methods and ingredients, and examine cultures of the regions. Hands on experiences coupled with an integrated online learning community will enhance the students' knowledge of the regions. A collection of recipes, projects, restaurant critiques, and culminating labs are required.

80806W INTERNATIONAL CUISINE

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: "Baking and Nutrition" or "Cooking and Nutrition")

Take a culinary trip around the world and explore it through foods. As one of the advanced foods courses, this curriculum will build upon the principles learned in the first foods level courses. Many cultures and cuisines of each continent will be explored, from prehistoric man to modern day gourmand. Students will prepare and explore foods that are indigenous to each country. Hands on experiences coupled with an integrated online learning community will enhance the students' knowledge of global cuisine. The student's own heritage will provide an enriching research project to augment personal enrichment through the study of cuisine.

80807W CREATIVE CUISINE

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Successful completion of either Baking and Nutrition or Cooking and Nutrition)

In this class, students will learn to make various processed foods including marshmallows and cheese and discover techniques used to change the textures of foods. Students will evaluate different food pairings and how to create complementary taste profiles. This class primarily focuses on advanced baking techniques. Students learn how to manipulate recipes and create truly unique and flavorful desserts.

80808W FASHION AND TEXTILE DESIGN

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will study the exciting world of fashion as applied to designer and ready-to-wear clothing industries. Learn how to use the elements and principles of design as applied to wardrobe coordination. Consumer knowledge of the apparel and textile industry will lead students to make wiser consumer choices. Awareness of career opportunities related to fashion, modeling, and entrepreneurial projects will support students' interest in pursuing further education in these fields. Hands-on projects will include newly learned hand and machine sewing skills that complement popular fashion trends in today's marketplace.

80809W FASHION AND TEXTILE DESIGN 2

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Successful Completion of Fashion and Textile Design)

Students will continue their study of the exciting world of fashion as applied to designer and ready-to-wear clothing industries. Learn how to use the elements and principles of design and create a hand designed and constructed collection. Hands-on projects will include advanced hand and machine sewing skills that complement fashion trends in today's marketplace.

80810W INTERIOR DESIGN

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will learn about the exciting world of interior design as it applies to home and office spaces. Learn to make wise housing choices, about art principles, and their application to decorating choices, study floor plans, room and furniture arrangement and selection, study housing styles, as well as, consumer rights and responsibilities. Students will gain an understanding of the elements and principles of design and utilize them to create elaborate living spaces. They will learn to analyze a client's needs and select appropriate colors, fabrics, furnishings, lighting and furniture.

80821W INDEPENDENT LIVING

(Grade 11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will face the reality of living on their own after high school through activities that require decision-making in the areas of financial management, housing, transportation needs, education, consumerism, foods and nutrition, and work situations. Students will learn better communication techniques and relationship skills. Specific activities include shopping for food, apartments, cars, clothing, banks, and other consumer needs. Students will also learn about their rights and responsibilities as a U.S. citizen as well as how to live a healthy life. The course curriculum is heavily influenced by student needs and understanding in order to provide students with the tools and information they need to become successful adults.

80822W CHILD DEVELOPMENT

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will learn about the five areas of development, the characteristics of development and how to direct the behavior of children from birth to early childhood. Prenatal development through labor and delivery will be studied in depth. Directed experiences outside of school will focus on observations, practicing behavioral techniques, and a parenting simulation using our Real Care babies. Overall, students will discover their personal abilities as they relate to children and become sensitized to the needs of children for their optimum development.

80823W SPORTS AND NUTRITION: EATING FOR A HEALTHY YOU

(Grade 11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course is designed for the student that is interested in athletics and keeping fit. This course will develop an understanding of the relationship between diet and performance. Areas of instruction include nutrition basics, food facts and fiction, healthy recipes and meal planning, eating for fitness, body composition and energy balance, leader nutrients, and current food and fitness issues.

ART**90902X FOUNDATIONS OF STUDIO ART**

(Grade 9) (1.0 Elective Credit)

(Prerequisite: None)

This course serves as an introduction to drawing, painting, sculpture, and design courses by offering students a foundation to the Elements of Art. Through the production and development of projects students will use both traditional and digital methods. They will grow in technique, application of concepts, and the discussion of art. No previous experience in art is necessary, but creativity and craftsmanship are encouraged.

90903W STUDIO ART

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course is for the student who wants to create art using multiple art mediums such as pencil, charcoal, watercolor, acrylic paints, and plaster. The class is designed to develop personal expression while exploring the roles and importance of art and artists in society, culture, and history. Projects will include portrait paintings, animal sculptures, abstract dip art, and more. Other assignments focus on artist research and art criticism. Art projects are graded using a detailed rubric.

90930W STUDIO ART AROUND THE WORLD

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None) – Course formerly entitled “Crafts of Many Cultures”

Students will study various arts and crafts derived from different cultures. Projects will consist of drawings, paintings, and sculptures such as sand paintings, masks, and kites. Other assignments focus on artist research and art criticism. Art projects are graded using a detailed rubric. This course is perfect for the creative beginner.

90904W DRAWING I – THE STUDY OF FORMS

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Designed for beginners, this course is for students who want to learn the fundamentals of drawing. The course begins with a review of the Art Elements learned in the Foundations of Studio Art. Seeing and responding to forms such as spheres, cubes and cylinders are the core of the curriculum. Gallery Assignments, Aesthetic issues of Art Criticism, Current Events in regards to the illustrator, and Art Media analysis are ways in which Common Core and Reading Apprenticeship strategies are applied.

90907W DRAWING 2 – THE STUDY OF SPACES AND FACES

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: Drawing 1)

Designed for artists, this course is for students who want to learn more of the fundamentals of drawing. The course begins with a review of the Art Elements learned in the Foundations of Studio Art and Drawing 1. Seeing and responding to spaces such as natural, industrial, and urban landscapes are the core of the curriculum. Students will master Formal Perspective through Architecture and Interior Design. Seeing and responding to the figure with gestural and contour techniques are also a major component of the course. Students will analyze the proportions of the face in regards to portraiture. Gallery Assignments, Aesthetic issues of Art Criticism, Current Events in regards to the illustrator, and Art Media analysis are ways in which Common Core and Reading Apprenticeship strategies are applied.

90922D ADVANCED DRAWING DUAL ENROLLMENT-HONORS CREDIT

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: None, nominal per credit cost)

This course is designed for the academic student looking to broaden their dual enrollment transcript or the advanced drawing student. Students will continue to develop a variety of foundation skills including the drawing of forms, spaces, and figures. This course requires the ability to write and discuss major topics from our visual culture. *The New Drawing on the Right Side of the Brain* by Betty Edwards (ISBN: 0-87477-424-1) is a required reading for the course. Gallery assignments, aesthetic issues of art criticism, current events in regards to the illustrator, and art media analysis are ways in which Reading Apprenticeship strategies are applied. In addition, students must complete summer reading assignments prior to the beginning of the course.

90912W CARTOONING 1

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Cartooning is telling a story through a picture or series of pictures that show the passage of time. In this course, students will gain the skills necessary to create their own original characters, comic strips, comic books, and graphic novels. Methods and techniques from Western super hero comics and from Japanese anime will be examined.

90913W CARTOONING 2

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Cartooning 1)

This course is a continuation of the cartooning class, and is for students who want to create characters and illustrate their own stories for comic books, graphic novels, and animation. We will be creating our own super heroes, humorous characters, caricatures, and political cartoons, as well as illustrations and concept art that could someday be used in video games, television and movies.

90919W PAINTING 1

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course will guide the student through the medium of acrylic paints with inspiration coming from the study of artists throughout history. Students will explore various art genres, such as realism, surrealism, and abstract art, and develop numerous painting techniques, such as brush strokes and blending. Students will use these methods to create portraits, landscapes, and still life compositions. Other assignments focus on artist research and art criticism. Art projects are graded using a detailed rubric.

90921W PAINTING 2

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: Successful completion of Painting 1)

Students will transition to heavy body acrylics and work on improving acrylic skills learned in the Painting 1 course, while exploring new advanced techniques and methods needed to create an impressive acrylic painting. Students will be expected to master blending techniques using value and color and create paintings which are personally expressive, unique, and stylized. Other assignments focus on artist research and art criticism. Art projects are graded using a detailed rubric.

90924W WATERCOLOR PAINTING 1

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course will guide the student through the translucent medium of watercolor. Students will explore and develop the handling and control of watercolor processes and learn numerous painting techniques and methods needed to create a successful watercolor painting. Learn how to apply washes such as wet-on-wet, wet-on-dry, graduated washes, masking, and brushwork texture. Students will utilize these methods to create still life, landscape, and portrait compositions effectively. Other assignments focus on artist research and art criticism. Art projects are graded using a detailed rubric.

90925W WATERCOLOR PAINTING 2

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Successful completion of Watercolor Painting 1)

Students will work on improving watercolor skills learned in the Watercolor Painting 1 course while learning new advanced techniques and methods needed to create an impressive watercolor painting. Students will be expected to master blending techniques using value and color while also including convincing texture and details. Students will paint subject matters including still life, landscapes, and portraits which are expressive and unique. Other assignments focus on artist research and art criticism. Art projects are graded using a detailed rubric.

90932W CERAMICS 1 – POTTERY

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

In this course, students will design and create functional utilitarian objects in clay. We will create objects using all of the major construction techniques including pinch, coil, soft and hard slab, and the pottery wheel. Each major project will be reinforced with art history, art criticism, and aesthetics. It is recommended that students take this course before taking CERAMICS 2.

90934W CERAMICS 2 – CERAMIC SCULPTURE

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Ceramics 1 – Pottery)

In this course, students will design and create ceramic sculptures using the major construction techniques including pinch, coil, soft and hard slab, the pottery wheel, and direct sculptural methods. Each major project will be reinforced with art history, art criticism, and aesthetics. It is recommended that students take Ceramics 1 before taking this course.

90938W DIGITAL PHOTOGRAPHY

(Grades 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course is designed to provide students with an introduction to photographic composition, camera basics, and digital image editing. Students will study the history of photography, learn about the Digital Single Lens Reflex (DSLR) camera, understand and demonstrate concepts of photographic composition, and edit their images with Adobe Photoshop and Lightroom. This course is an excellent choice for those students planning to major in art, graphic design, desktop publishing, video, communications, or just want to create a more aesthetically pleasing photograph.

90940W INTRO TO ANIMATION

(Grades 10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Animation is an art form that has been around for over a century. In the past decade it has been considerably prominent in many fields most noticeably in that of the entertainment industry. It is a rapidly growing and constantly changing field and includes people with backgrounds ranging from visual arts to science and computer programming. Animation is a method in which rapid sequences of still images are manipulated to create the illusion of motion. There are many methods to do this. In this course we will experiment with different media from traditional hand drawn flipbooks and clay sculpted stop motion to computer rendered projects. We will explore the history and evolution of this art form. Students will gain knowledge of the principles of animation and apply it in their work. They will be involved in learning how to plot, script, storyboard, present, and create animations. The class will consist of demonstration, viewing of related works, hands on experimentation and critique.

90942W DIGITAL ARTS

(Grades 10,11,12) (0.5 Elective Credit)

(Prerequisite: Drawing 1, Painting 1, Digital Photography, or Animation)

This Digital Art course deals with controlling computer technology to produce an artistic image. In class, students will be introduced to the teaching of digital arts through the exploration of Adobe Photoshop and Adobe Illustrator. Students will learn how to draw and paint by using a graphic drawing tablet instead of the traditional art materials. The art that students create will be 2-dimensional and entirely created on the computer and/or with the use of the digital camera. This course will also explore contemporary design trends dealing with the digital arts and discussion on history. Although general computer experience is recommended, prior knowledge of software and equipment is not required.

70714W GRAPHIC DESIGN

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Graphic designers work with drawn, painted, photographed, or computer-generated images (pictures), but they also design the letterforms that make up various typefaces found in movie credits and TV ads; in books, magazines, and menus; and even on computer screens. Designers create, choose, and organize these elements; typography, images, and the so-called “white space” around them, to communicate a message. Graphic design is a part of your daily life. From humble things like gum wrappers to huge things like billboards to the t-shirt you’re wearing, graphic design informs, persuades, organizes, stimulates, locates,

identifies, attracts attention, and provides pleasure. Graphic design is a creative process that combines art and technology to communicate ideas. The designer works with a variety of communication tools in order to convey a message from a client to a particular audience. The main tools are image and typography.

MUSIC**90951X CONCERT BAND**

(Grade 9,10,11,12) (1.0 Elective Credit)

(Prerequisite: The ability to play a concert band instrument)

Students will learn the important aspects of functioning successfully within a musical ensemble. They will accurately interpret musical scores containing complex rhythms and melodies. Students will demonstrate the fundamentals of acceptable tone production, including adjusting pitch to match that of the group and listening for proper blend and balance. Moreover, students will develop skills and techniques applicable to their instruments. Students will understand the basic concepts of music theory and music history and understand how the knowledge of these concepts improves performance. Achievement will be demonstrated by participating in solo, small and large ensembles, performances, rehearsals, and self-evaluation. Attendance for outside performances is required.

90952Y CONCERT BAND SPLIT

(Grade 9,10,11,12) (0.5 Elective Credit)

(Co-requisite: Course 909953Y)

This course is designed for those students who desire to fulfill the course requirements described for course 90951X, Concert Band, and 90954X, Concert Choir. This course is in conjunction with course 90953Y, Concert Choir Split. Students must follow an alternating schedule arranged by the course instructors.

90953Y CONCERT CHOIR SPLIT

(Grade 9,10,11,12) (0.5 Elective Credit)

(Co-requisite: 90952Y, successful solo audition and teacher recommendation required)

This course is designed for those students who desire to fulfill the course requirements described for course 90951X, Concert Band, and course 90954X, Concert Choir. This course is in conjunction with 90952Y, Concert Band Split. Acceptance into Choir Split is contingent on a successful audition. Students must follow an alternating schedule arranged by the course instructors.

90954X CONCERT CHOIR

(Grade 9, 10,11,12) (1.0 Elective Credit)

(Prerequisite: Successful solo audition and teacher recommendation required)

Concert Choir is an auditioned ensemble that enables students to excel in the performance of a variety of music styles and time periods. Students will continue to develop their vocal, musical, and sight-reading skills while learning to be versatile performers in vocal and choral music. Concert Choir is a mixed ensemble that performs intermediate and advanced choir repertoire: both masterworks of choral history as well as modern compositions. Attendance for outside performances is required. Acceptance into Concert Choir is contingent on the student's completion of Tenor/Bass or Treble Choir and/or a successful solo audition.

90956Z TENOR/BASS CHOIR

(Grade 9,10,11,12) (1.0 Elective Credit)

(Prerequisite: None)

Tenor/Bass Choir is a tenor/bass ensemble that enables students to excel in the performance of a variety of music styles and time periods. Students will develop their vocal, musical, and sight-reading skills while learning to be versatile performers of vocal and choral music. Tenor/Bass Choir is a tenor/bass ensemble that performs developmental choir repertoire, masterworks of choral history, and modern compositions. Attendance for outside performances is required.

**If low enrollment occurs in Tenor/Bass or Treble Choir, both classes will combine to form Zephyr Choir.*

90957X TREBLE CHOIR

(Grade 9,10,11,12) (1.0 Elective Credit)

(Prerequisite: None)

Treble Choir is a treble ensemble that enables students to excel in the performance of a variety of music styles and time periods. Students will develop their vocal, musical, and sight-reading skills while learning to be versatile performers of vocal and choral music. Treble Choir is a soprano/alto ensemble that performs developmental choir repertoire, masterworks of choral history, and modern compositions. Attendance for outside performances is required.

**If low enrollment occurs in Tenor/Bass or Treble Choir, both classes will combine to form Zephyr Choir.*

90955Z ZEPHYR CHOIR

(Grade 9,10,11,12) (1.0 Elective Credit)

(Prerequisite: None)

Zephyr Choir is a beginning ensemble that enables students to excel in the performance of a variety of music styles and time periods. Students will develop their vocal, musical, and sight-reading skills while learning to be versatile performers of vocal and choral music. Zephyr Choir is a mixed ensemble that performs developmental choir repertoire, masterworks of choral history, and modern compositions. Attendance for outside performances is required.

**If low enrollment occurs in Tenor/Bass or Treble Choir, both classes will combine to form Zephyr Choir. During course selection, all students should schedule for Tenor/Bass or Treble Choir.*

90961W MUSIC THEORY 1

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: The ability to read music and teacher recommendation)

Students will learn the basic principles of music composition, analysis, and performance. They will understand and effectively use various clefs, meters, and time signatures and will become proficient in the performance of music utilizing these ideas. Students will improve their listening skills by sight singing scale-wise melodies, as well as duets, and melodies with skips within the primary triads. Moreover, students will perform rhythmic, melodic, and harmonic dictation. Achievement will be demonstrated by composing music using four-part writing, completing of small-scale musical compositions and a large-scale semester-length project involving an original musical composition. A portfolio will be maintained.

90962W MUSIC THEORY 2

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Course 90961X)

Students will be given the opportunity for an in-depth study of the principles of music, composition, analysis, and performance. They will compose and analyze music using four-part writing techniques including all secondary chords, inversions thereof, and non-harmonic tones. They will learn and apply the basic principles of secondary dominant chords and elementary modulation to their works. Students will continue to develop their listening skills by sight singing melodies, which include skips in all diatonic triads and some chromatic alteration. They will perform increasingly complex rhythmic, melodic, and harmonic dictation examples. Achievement will be demonstrated through the completion of small-scale musical compositions using course concepts.

90963X ADVANCED PLACEMENT MUSIC THEORY

(Grade 11,12) (1.0 Elective Credit)

(Prerequisite: Course 90962X)

Students will study the complex principles of music composition, performance, and analysis. They will compose and analyze music using four-part writing techniques, including chromatically altered chords, borrowed chords, and modulation to closely related and foreign keys. The students will create music modeled after famous 20th century composer's techniques. Students will develop their listening skills to an advanced degree by sight singing complex examples which include many chromatically altered tones and large leaps. Some melodies may hint at atonality. Students will perform complex examples of musical dictation which will include melodic, rhythmic, and harmonic examples, as well as those which demonstrate 20th century techniques. Achievement will be demonstrated through the production of musical compositions containing both four-part vocal and instrumental examples. Students will compose a major composition for an instrumental or a mixed instrumental/vocal ensemble. This musical work will be performed by members of the class, high school band, and/or high school choir. The work will be conducted by, and taught to the group, by the student composer. A portfolio will be maintained. In addition, students must complete the following summer readings prior to the beginning of the course: *Introduction to Music* (ISBN# 0-07-038068-6) – read Chapter 8, Form: Order in Music, pages 90-114; Chapter 15, The Romantic Period, pages 211-230; and *ABC's of Music* (ISBN# 0-19-317103-1) – read Part VII – Harmonization, pages 93-99. The assignment is to write a one page summary for each of the above chapters you have read. Be certain to include important definitions from each chapter. Additionally, students will be held accountable for this reading and will be given a test on this material during the first week of school in September. **In order to receive AP weight for this class, students must take the AP Exam in May.**

90972W LEARNING TO PLAY THE PIANO LEVEL 1

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will experience hands-on learning of the piano using individual keyboards. Working at one's own pace using individualized instruction, each student will gain knowledge of a piano score and practice playing that music on the keyboard. Basic piano techniques and theory will also be incorporated into the student's learning. Grading will be based on performance at the keyboard of musical pieces learned. Self-motivation and ability to work independently are key factors in the success of the student.

90973W LEARNING TO PLAY THE PIANO LEVEL 2

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: Learning to Play the Piano Level 1 and Teacher Recommendation or Teacher Permission by Audition)

Students will experience hands-on learning of the piano using individual keyboards. Working at one's own pace using individualized instruction, each student will continue to build technique and performance repertoire. Music theory and technique necessary for more advanced piano literature will be incorporated into the student's learning, including written and aural skills. Grading will be based on performance at the keyboard of musical pieces learned.

90974W THEATRE ARTS I

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

This course provides a medium for students to begin exploration of theatrical performing arts. Emphasizing creative and expressive acting, students will be trained in the fundamentals of improvisation, movement, voice, character, and production of scenes. Students will perform in solo and group projects, developing skills in peer evaluation and accepting constructive criticism. Students also learn basic skills in theatrical critique and analysis as well as scriptwriting.

90975X THEATRE ARTS II

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: Successful Completion of Theatre Arts I and Teacher Recommendation Required)

Theatre Arts II is a continuation of skills learned in Theatre Arts I. Students will continue their study of technical theatre skills as well as advanced rehearsal and performance in monologues, duo, and group scenes. This class is designed as an acting studio which will focus more on the implementation of the skills and pure acting and performance instead of learning the basics of stage performance. Students will be given opportunities to start basic stage directing.

90976W INTRODUCTION TO MUSICAL THEATRE

(Grade 10,11,12) (0.5 Elective Credit)

(Prerequisite: None; however, singing is a required part of this class)

This class is designed for students who desire to learn more about the development and performance of musical theatre in America. Students will study the history and development of musical theatre and Broadway from the late 1800's to modern day including major theatrical movements, composers, performers, and productions. Students will be challenged to critically analyze how the culture in America directly reflected in the development of musical theatre throughout the century. Students will also choose musicals to study and perform several songs from different decades with a focus on good vocal technique and acting through the song. Students will leave the class with a portfolio of repertoire to use in performance or audition. Note: *Singing is a required part of this class.*

90979W INSTRUMENTAL TECHNIQUES 1 / 90980W INSTRUMENTAL TECHNIQUES 2

(Grade 9,10,11,12) (0.5 Elective Credit Each)

(Prerequisite: Music Teacher Recommendation)

This course is designed to meet the needs of the serious musician as well as the beginning musician. The elements of a quality performance will be emphasized, catering to each student's own individual needs. Students will learn how to play individually as well as in a small ensemble, scale studies, sight reading, musical responsibilities of each instrument, effective practice techniques, characteristics of different music styles, historical information about music selected for performance, and how to organize and program a performance. Prior to enrolling in the course, all students must get approval from a music instructor.

90981W POPULAR MUSIC 1 (The Roots of Rock Music)

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will explore the origins and defining characteristics of non-classical music of the Twentieth Century in America (focusing on music up to the 1950's). Students will utilize technology daily to listen to, analyze and write about music and topics discussed in class. Topics covered will include the following: the blues, country, and gospel roots of rock.

90982W POPULAR MUSIC 2 (Bob Dylan to the Beatles)

(Grade 9,10,11,12) (0.5 Elective Credit)

(Prerequisite: None)

Students will explore the origins and defining characteristics of non-classical music of the Twentieth Century in America (focusing on 1960's). Students will utilize technology daily to listen to, analyze, and write about music and the topics discussed in class. Topics covered will include the following: the teen idols, folk and folk-rock, soul, and the British Invasion.

90983W POPULAR MUSIC 3 (The Blues Revival to Hip-Hop)

(Grade 10,11,12) (1.0 Elective Credit)

(Prerequisite: Successful Completion of Popular Music 1 & Popular Music 2)

Students will explore the origins and defining characteristics of non-classical music of the Twentieth Century in America (focusing on the 1970's and beyond). Students will learn about the relationships popular music has shared over the past century. Students will utilize technology daily to listen to, analyze, and write about music and the topics discussed in class. Topics covered will include the following: the Blues Revival, psychedelic rock, jazz-rock, funk, disco, art/progressive rock, hard rock/heavy metal, punk rock, ska, reggae, and hip-hop.



LEHIGH CAREER & TECHNICAL INSTITUTE

Career and technical education, or CTE, helps students get more out of high school. Specifically, more opportunities to master practical skills, secure industry credentials, earn college credit, win scholarships, explore careers, develop leadership ability and gain real-world experience. That's why Lehigh Career & Technical Institute is the smart choice for students who want to be college and career ready when they graduate.

Operating with the support of all nine Lehigh County school districts, LCTI offers dozens of CTE programs taught by industry experts in five areas of study: Arts & Humanities, Business & Communication Technology, Engineering & Advanced Manufacturing, Health & Human Services and Industrial Technology.

We are the largest career and technical school in Pennsylvania and, thanks to the support of our education and industry partners, among the best equipped nationwide. LCTI's campus is adjacent to Lehigh Carbon Community College in the Schnecksville section of North Whitehall Township and boasts a 450,000-square-foot facility outfitted with the latest software, tools and equipment.

ENROLLMENT OPTIONS

Academic Center: The Academic Center provides students in **grades 10-12** with the option of taking both their academic and career & technical course work at LCTI as full-day students. These rigorous academic courses will satisfy graduation requirements as well as complement the career & technical major of each student. Students will still graduate from their resident school districts and are encouraged to participate in extra-curricular activities back at their sending school. Students will be able to register for the full-day program during their school district's regular course registration time.

Half-day enrollment: Students in **grades 9-12** may choose the half-day enrollment option. The half-day option provides students with career & technical education at LCTI and the required academics at their respective school districts. Students are encouraged to take high-level course work at the sending district which will provide the academic background necessary to be successful in today's highly technical careers.

Flex time enrollment: Another option that may suit students' individual needs is the flex-day program. The flex program is designed to provide students with technical coursework on a limited schedule. Students may choose to come to LCTI for one or more periods per day depending upon their needs. Students may attend one or both semesters and may attend for multiple years. Many students use this technical educational training as a jump start to a technical degree in a four-year institution. Both the half-day and flex-day options may be chosen during the regular course registration process.

ACADEMIC CENTER COURSE OFFERINGS

All courses in the LCTI Academic Center are college-preparatory and meet graduation requirements. Courses are assigned based on classes completed at the sending district prior to attending LCTI. All science courses are lab-based and a graduation project is required for all Academic Center students. The courses offered in the Academic Center are listed below.

English	Mathematics	Science	Social Studies	Other
ELA II	Geometry	Biology	American Studies II	Wellness/ Fitness 11
ELA III Accelerated ELA III	Algebra II	Chemistry	World Cultures	Wellness/ Fitness 12
ELA IV Accelerated ELA IV	Pre-Calculus	Physics I Physics II	American Government/Civics/Economics Accelerated American Government/Civics/Economics	
LCCC English Course	Calculus LCCC Academic Math Courses	Environmental Science		

Lehigh Career & Technical Institute Academic Center Course Schedule

Grades	Semester 1	Semester 2
10 th	Math	
	Science	
	English Language Arts II	
	American Studies II	
11 th	Math	
	Science	
	English Language Arts III	
	World Cultures* or Wellness/Fitness*	World Cultures* or Wellness/Fitness*
12 th	English Language Arts IV	
	American Government/Civics/Economics	
	Wellness/Fitness	
	Math or Science	
	* Notes Semester Courses	

LCTI ACADEMIC OPTIONS FOR HALF-DAY STUDENTS

Lehigh Career & Technical Institute (LCTI) provides academic courses to some half-day students who attend the school. It is very important for students to be successful in both their academic and technical course work. The courses taken at LCTI are necessary to meet the student's graduation requirements. If a student does not complete an academic course with a passing grade, the course must be re-taken. LCTI does not offer a summer school; however, this option may be available through the sending high school. It may also be possible for courses to be made up during the student's senior year at LCTI; however, make up courses scheduled in the senior year can cause the student to lose the opportunity for a Cooperative Education job placement. If the coursework is not made up, graduation from high school may be jeopardized.

The following academic courses for half-day students may be required while attending LCTI.

10th grade: American Studies II

Course Overview: The American Studies II course addresses the development of the United States throughout the twentieth century. This course is aligned to the Pennsylvania Core Standards for Social Studies as well as Reading, Writing, Listening and Speaking. Through various activities and lessons, these standards will be met to understand the development of the United States as a world power; focusing on economic and industrial development, political trends, society and cultural problems and achievements. The students will develop an understanding of the progress of technology and social groups. They will be expected to evaluate the changes of culture in society and analyze the political contributions of individuals and events of the periods studied. American Studies assignments also include the integrated concepts between this history course and various Career and Technical Labs. Students will be assessed formally and informally to determine mastery of the content for the duration of the academic year.

11th grade: Wellness & Fitness

Course Overview: The Wellness Program provides students with life-changing information on nutrition and various techniques on stress management that they can use throughout life. The most common mental disorders will be researched and students will receive training on suicide prevention. During nutrition, students will investigate the harmful ingredients found in the foods they eat on a daily basis, analyze products served by several fast food chains and research healthy alternatives.

The Fitness Program is designed to acquaint students with the benefits of physical activity in their lives and to promote life-long wellness and fitness. The course, which is held in the state-of-the-art LCTI Fitness Center, will feature various strength and conditioning principles, such as specificity, progression and overload, along with multiple training techniques, such as CrossFit, Tabata, Yoga and an assortment of technology-based exercises.

LCTI CAREER & TECHNICAL EDUCATION OPTIONS

At Lehigh Career & Technical Institute, students learn by doing. Teachers guide students from instruction to action, helping them tackle projects that mirror on-the-job challenges as they develop the knowledge and skill necessary to secure industry credentials, earn college credit or both. For example, marketing students manage a store on their way to earning National Retail Federation certification. Programs are identified as either Program of Study (POS) or Career & Technical which designates the type of post-secondary credit options available. Students who participate in the POS programs have the ability to earn advanced college credits through SOAR (Students Occupationally and Academically Ready) or through articulation credit with a specific post-secondary school. Career & Technical programs only offer articulation credit where applicable.

LCTI's programs fall into five areas of study:

ARTS AND HUMANITIES

Advertising Design/Commercial Art: Students will learn the latest Adobe graphic design software currently used in the professional workplace. The emphasis of the program is based on Adobe Photoshop, Illustrator, and InDesign and creating a printed and electronic portfolio of work produced through these programs. Students are able to receive certification for Adobe Photoshop, Illustrator, and InDesign through Adobe endorsed Certiport. In addition to the Adobe Creative Cloud, students will learn traditional illustration skills such as pencil drawing and shading, water color, color pencil, scratch board and various other mediums. Photography for advertising is used in class and students will learn the use of a Digital Single Lens Reflex camera and the setup of strobe lights. Students are able to concentrate in three different career objectives which are Graphic Design, Sign-Making, or Illustration. **(POS)**

Commercial Photography/Electronic Imaging: Students who select this specialty will receive training in photography both in the studio and on location using the latest digital camera techniques and computer technology for processing and printing images. The course includes professional lighting techniques and design elements for a wide variety of subjects including wedding and portraiture, products for advertising, as well as photojournalism and editorial markets. **(CAREER & TECHNICAL)**

BUSINESS AND COMMUNICATION TECHNOLOGY

Computer Information Technology: Students will be at the forefront of cyber-security related issues as a means to safeguard sensitive data and preserve confidentiality. Computer Information Technology will challenge students to develop meaningful business solutions through computer programming in Visual Basic, C+, C#, and Java. Students will learn to work with data in order to produce relevant information that will help to drive the direction of organizations and solve real problems. *This program participates with the IT Academy*. **(POS)**

Computer & Network Technology: Students are prepared for advanced networking training and the industry standard CompTIA A+ and Network + Service Technician certifications. The program takes students from basic PC hardware through operating systems and networking. Students will also learn the MS Office Suite, customer service and support, and advanced network support. Students have the opportunity to participate in dual enrollment coursework for college credit; additionally, satisfactory completion of the program may grant college course credit through articulation agreements with LCCC. *This program participates with the IT Academy*. **(POS)**

Emerging Digital Media & Social Communications: Social media is big business and video content is king. In our Emerging Digital Media program, students learn about the creative and technical processes that drive video production for multimedia platforms ranging from Snapchat and TikTok to YouTube and Netflix. They also explore deejaying and electronic dance music production as they master a variety of concepts, software and skills.

Marketing and Business Education: Students learn about finance, retail marketing, banking, entrepreneurship, promotions and other important aspects of marketing through virtual business software and retail experience in the school's store. They examine what is necessary to run a business, promote a product or manage a department. Practical experience is available through the student-managed school store and by participating in community internship opportunities. **(POS)**

Print Technology/Graphic Imaging: Students creatively design printed materials such as a full-color books, posters, packaging, displays, stationary, as well as specialty items like mugs and shirts. Using the most current versions of Adobe Creative Cloud software on Apple Macintosh computers, students then reproduce their attractive projects on state-of-the-art copiers, printing presses, and bindery machines in a real production environment. **(POS)**

Web Design/Web Programming: Students learn the fundamentals related to web page design and website development, graphics, multimedia and HTML coding. Students are taught the tools for rapid web page production and basic server-side programming techniques to handle everything from forms transmittal to building dynamic interactive web pages, intranet, extranet and e-commerce applications. *This program participates with the IT Academy*. **(POS)**

ENGINEERING & ADVANCED MANUFACTURING

Electromechanical/Mechatronics Technology: Students learn an innovative curriculum which combines hands-on training with real world industrial equipment and software. Students get a solid background in industrial, electrical and electronic systems, A.C. and D.C. motors, motor controls, power distribution systems, programmable controllers, hydraulics, pneumatics, mechanical drives, transformers, process control systems and troubleshooting. **(POS)**

Electronics Technology/Nanofabrication: Students are taught the principles of electronics. From DC Circuits to Semi-Conductive Devices they learn to design, build, and test electronic circuits. LCTI has a fully functioning Class 1000 fabrication room (cleanroom) where students create the silicon chips that are the foundation of the information age and the heart and soul of modern electronics. **(POS)**

Engineering Drafting & Design: Students utilize computer-aided drafting and design software to create accurate representations of solutions to engineering design challenges. They hone their skills by designing and then producing three-dimensional models for machine parts, home additions, bridges and more. In the process, students learn to use 3D and wide-format printers, as well as common model-building materials. **(POS)**

Precision Machine Tool Technology: LCTI's Precision Machine lab is recognized as a Haas Technical Education Center and incorporates lessons and demonstrations, as well as extensive applications training in reading blueprints, operating a digital lathe, milling machine, drill press and other machine shop operations in the curriculum. Students train on state-of-the-art CNC machine tools placed in the lab by Haas Automation. **(POS)**

Pre-Engineering & Engineering Technology: This pre-engineering program is a sequence of courses which, when combined with traditional mathematics and science courses, introduces students to the world of engineering. Students study the principles of engineering, engineering design, digital electronics and computer integrated manufacturing. **(POS)**

Supply Chain Management & Logistics Technology: Students learn inventory control, purchasing, receiving, shipping, equipment operation and maintenance in a state-of-the-art 17,000 square foot distribution center. Students train with current industry technology including handle-held track pads and computers, vertical and horizontal carousels, a computer-controlled conveyor, and a computer-integrated warehouse management system. Students explore the supply chain of products from their global origin to the consumer including modes of transportation. **(POS)**

Welding Technology: This course teaches students shielded metal arc welding, gas metal arc welding, flux cord arc welding, welding inspection, testing, and safety/emergency procedures. The program operates under entry level certification authorization by the American Welding Society and a special arrangement with Lehigh Carbon Community College permits students to earn a national skills certificate and an Associate Degree. **(POS)**

INDUSTRIAL TECHNOLOGY

Auto Collision Repair Technology: Students learn about the tools and equipment associated with the collision repair industry, while learning welding, non-structural and structural damage analysis, estimating, and repair techniques, along with paint preparation and refinishing systems used on today's technologically advanced automobiles. This comprehensive course of study and the volume of exposure students receive allow them to step into the workforce immediately following graduation or continue studies at the post-secondary level. **(POS)**

Auto Technology: Students in this program are prepared to diagnose and repair automobile systems including electrical systems, ignition and emission systems, engine cooling and lubrication, front ends, air conditioning, brakes, transmissions, engines and drive trains. Students participate in the nationally recognized Automotive Youth Education Systems (AYES) industry partnership. The program teachers are Master Certified ASE Technicians who utilize state-of-the-art equipment to prepare students to become automotive technicians. **(POS)**

Cabinetmaking & Millwork: Cabinetry, wood products design and layout and construction open the world of cabinetmaking and millwork to students. Students are taught to read blueprints, make shop drawings and produce components with trade-related hand and power tools and machinery. The newly expanded lab and curriculum provides knowledge of lumber products adhesives, fastener, finishing, 32mm cabinets and counter top fabrication. Technology has entered this rewarding construction trade with the addition of CNC router technology. **(POS)**

Carpentry: Blueprints, site work, construction footings, framing floors/walls/ceilings/roofs, radon control, insulation, and power tools are some of the areas taught in Carpentry. Students participate in the LCTI Student House Project where a home is built and sold at auction upon its completion. Students learn how the building industry works, its standards and what is required to complete a project on time and at cost. **(POS)**

Diesel/Medium and Heavy Truck Technology: Students gain experience with drive trains, clutch assemblies, transmissions, diagnostics, steering and other aspects of this industry. Students also study suspension, diesel engines, gasoline engines, bearing and seals. The trucking industry needs professionals to service the truck fleet that keeps industry and commerce moving in the United States. LCTI can provide students with the necessary expertise they need to succeed in this industry. **(POS)**

Electrical Technology: Students learn residential, commercial, and industrial electrical wiring, as well as fluid power technology planning and wiring. Students are taught to install duplex and split wired duplex receptacles, single pole switches, 3-way and 4-way switches and Ground Fault Circuit Interrupters. **(POS)**

Heating/Air Conditioning & Refrigeration: Students learn to install, troubleshoot and repair air conditioning, heat pumps, commercial refrigeration units and gas and oil heating equipment. Skilled technicians are proficient in reading electrical diagrams, diagnosis of electrical problems, air distribution designs, copper and steel pipe cutting, soldering and fabricating fiberglass, and sheet metal duct systems. **(POS)**

Heavy Equipment Operations & Preventive Maintenance: As a student in this fast-paced and diverse program, you will learn the safety, maintenance and operating techniques for a wide variety of earthmoving equipment. Students will also receive instruction in soils, erosion and sediment control, site preparation, aggregate production, concrete and asphalt paving, surveys and grades, and utility installation. In addition, students will have the opportunity to learn machine systems, parts identification and ordering, and preventative maintenance techniques in a state-of-the-art facility. **This program is not available to ninth grade students. (CAREER & TECHNICAL)**

Masonry: Students will learn various layouts and pattern designs using brick, concrete masonry units, stone and ceramic tile. This comprehensive program teaches students how to correctly use the necessary tools and equipment to build simple wall structures, fireplaces and brick sculptures. Ceramic tile installation and thin stone veneer applications are also included in the curriculum. Students also participate in the student-built house project. **(POS)**

Painting and Design: Students learn to refresh and highlight interior and exterior spaces (residential and commercial) as well as improve and restore historical buildings. Painting, wallpaper hanging, furniture refinishing, line striping, staining and spraying are among some of the topics emphasized in this program. **(CAREER & TECHNICAL)**

Plumbing and Heating: In this high priority occupation program, students will learn the basic to the advanced skills of Plumbing and Pipe Fitting. Repairing and installation items such as, but not limited to: Faucets, Bathtubs, Toilets, Sump Pumps, Sewage Pumps, Water Heaters, Boilers, Water Softeners, Well Pumps, Solar Heating Systems, Chilled Water, Air Conditioning and Radiant Heating Systems. This lab will teach skills such as but not limited to: brazing, soldering, threading, pressed, rolled/grooved, flared, pipe fitting and measurement and fused joints. Students will work with PEX, Copper, Steel, Cast Iron, PP-R, PVC and CVPC Pipe and Tubing. This program incorporates a multi-level and fast paced, technology enriched learning environment. **(POS)**

Small Engines/Recreational Vehicle Repair: Students will learn to diagnose and repair lawn mowers, chain saws, jet skies, motorcycles and go-karts. Students will learn about the small engine and the vital components to effectively make the engine perform to maximum efficiency. Students will also learn about brake systems, transmissions, and hydraulics, hydrostatics, and drive systems. Students will learn skills that involve welding, cutting with a torch, cylinder honing, and boring. **(POS)**

HEALTH AND HUMAN SERVICES

Commercial Baking: Cake decorating, breads, rolls, sweet goods, pastries, pies, doughnuts and nutrition are all part of this course. Students learn the fundamental principles and procedures of operating a fully functioning bakery and retail bake shop, including preparation, display and management. With attention to both theory and practice, this course is designed to prepare students for entry-level positions in the commercial baking industry. LCTI's program is certified by the American Culinary Federation and is nationally recognized as exemplary in all areas of the curriculum. **(POS)**

Cosmetology: Students learn hair styling, hair cutting, hair coloring, chemical texturizing, nail/skin care and salon business operations. Students learn these skills through clinical practices offered at the school salon. Preparation for the Pennsylvania State Board Examination will enable students to become licensed as a cosmetologist and will allow them to work in a challenging and creative profession. **(CAREER & TECHNICAL)**

Criminal Justice: Students learn Pennsylvania criminal and traffic laws, the legal use of force, search/seizure/evidence procedures, arrests and other aspects of law enforcement. Students also train in a fire arms simulator and conduct mock disaster drills to gain practical emergency skills. The program includes opportunities to earn Emergency Medical Responder (EMR) and Emergency Medical Technician (EMT) certifications. **(POS)**

Culinary Arts: Stocks, soups, sauces, appetizers, desserts, main dishes, menu planning, and nutrition are just some of the aspects of this program. Students learn front of the house and back of the house skills working in the school restaurant. LCTI's program is certified by the American Culinary Federation and is nationally recognized as exemplary in all areas of the curriculum. **(POS)**

Dental Technology: Students who enroll in this program learn a variety of skills that will enable them to become a dental assistant, dental laboratory technician, and/or pursue a career as a dental hygienist. The major areas of study in the course include: dental radiology, oral pathology, chair-side dental assisting, anatomy and physiology, dental materials, sterilization, and dental office business procedures. **(POS)**

Early Care & Education of Young Children: Students studying childcare will learn child and staff health, child development, early childhood education, special education, discipline and guidance of children, childcare program development, and professional development. **(POS)**

Emerging Health Professionals: The Emerging Health Professionals Program provides high school seniors with an opportunity to experience a variety of health care careers in a hospital setting and take Penn State/Lehigh Carbon Community College science courses for college credit. Students spend one day a week rotating among various departments of a hospital. Students will experience these departments through the three Lehigh Valley Hospital & Health Network facilities, St Luke's University Health Network Allentown Campus, Country Meadows, and Good Shepherd Rehabilitation Network. The hospital portion of the program provides students with observational experience that enables students to observe various health career professionals as they work with patients. Also, students have the opportunity to meet various health career professionals during presentations with the LVHN community. In addition to these experiences, students are given an overview of the health care industry and all that it entails throughout their coursework at LCTI. **This program is only available to senior students. (POS)**

Exercise Science & Rehabilitation Services: Health care is among the nation's fastest growing industries and offers a broad range of professional opportunities. In our Exercise Science & Rehabilitation Services program, students learn about the practical applications of medical science as they explore careers in physical therapy, athletic training and comparable fields. Students can earn CPR, AED and other certifications through the American Heart Association and may pursue internship and co-op positions at local health care facilities. **(CAREER & TECHNICAL)**

Teacher Education: Students studying childcare will learn child and staff health, child development, early childhood education, elementary education, special education, discipline and guidance of children, childcare program development and professional development. **(POS)**

OTHER PROGRAM OPTIONS

Service Occupations Cluster: Five curricular areas are offered in this program: Auto Specialized Technology, Building Trades Maintenance, Food Service, Hospitality Services, Indoor/Outdoor Maintenance, and Supply Chain Management & Logistic Technology. Each area is designed to help the student transition from basic entry-level skill development to more advanced technical training or directly into the workforce. A skills screening will be done to determine the readiness and interest of the student. Results of the screening will be provided to the student's IEP team.

Career Academy Program: Provides the nine participating school districts of Lehigh County an alternative for at-risk students to receive a high school diploma and work toward a career goal in their program of choice. Selected technical programs at LCTI are available to Career Academy Program (CAP) students. They receive academic instruction in English, mathematics, social studies, science, health/wellness, physical education, job readiness, and enrichment coursework. The program operates on a three-day rotation schedule with two out of three days focused on Career & Technical Education Programs. Programs include: Applied Horticulture, Building Trades Maintenance, Electrical Technology, Graphic Communications, and Office Systems Technology.

School-To-Career

- ***Job Shadow*** Students accompany employees through part of a typical day and learn about the varied aspects of their job and skills required to work in the field.
- ***Internship*** Students may participate in a business match program that allows them to spend a period of time working in their field of study.
- ***Cooperative Education*** Students in 11th and 12th grade may participate in a business match program that allows them to spend a portion of the school year working in their field of study. Students pursue their academic coursework on a half-day schedule and report to their place of employment for the remainder of the day.

DUAL ENROLLMENT PROGRAM

Did you know you can take college classes while attending LCTI?

Opportunities to earn college credit while still in high school

You won't have to break the bank to attend college. Each course credit at Lehigh Carbon Community College (LCCC) costs about half the regular tuition rate and less than a fourth of the cost for a comparable course credit at any one of Pennsylvania's State universities.

What is a placement test? A placement test is given to students who are interested in taking college courses at LCCC. Students must obtain a minimum score to be eligible for college classes. More information regarding placement tests can be found on lccc.edu.

Dual Enrollment Requirements? Students must be Level II or higher in their lab programs and maintain a minimum of a "B" average to participate in Dual Enrollment. Students must also have good attendance and no discipline referrals. The tuition and associated costs for dual enrollment courses must be paid by the student/parent.

Want to see if Dual Enrollment is right for you? Our free, one credit course, "**The College Experience**" is an opportunity to explore dual enrollment. In "**The College Experience**" you'll learn what to expect if you go to college, as well as what will be expected of you. Upon completion of the course, students have the option of taking a placement test to determine eligibility for future classes at a reduced rate paid by the student/parent.

COURSE LISTING

Course #	Subject	Cr.	Course #	Subject	Cr.	Course #	Subject	Cr.
	****Health & Phys Ed****			****Social Studies Cont. ****			*****Science*****	
1 F	Physical Education 1	0.5	*20215E	Psychology	1.0	505041B	Core Environmental Science	1.0
2 M	Physical Education 1	0.5	20224W	Abnormal Psychology	0.5	*505041A	CP Environmental Science	1.0
3W	Physical Education 1	0.5	*20227H	AP Psychology	1.0	*50503H	Honors Earth Science	1.0
4W	Lifetime Sports	0.5	*20216E	Sociology	1.0	50512B	Core Biology	1.0
5W	Personal Fitness	0.5	*20217E	Basic Legal Concepts 1	1.0	*50511A	CP Biology	1.0
6W	Team Sports	0.5	20218E	Basic Legal Concepts 2	1.0	*50513H	Honors Biology	1.0
10W	Strength & Conditioning	0.5	*20219D	Issues in 20 th Cent. Amer. Dual Enrollment-Honors	1.0	*50514H	AP Biology	2.0
9W	Lifeguarding/CPR/First Aid	0.5				50522B	Core Chemistry	1.0
10X	Adapted Phys. Education	0.5	*20219E	Issues in 20 th Cent. Amer.	1.0	*50521A	CP Chemistry	1.0
13W	Concepts of Sport Science	0.5	20223W	Influence of Sports on American Society 1	0.5	*50523H	Honors Chemistry 1	1.0
20C	Health 1	0.5				*50524H	Hon. Advanced Chem. 2	1.0
21C	Health 2	0.5	20225W	Influence of Sports on American Society 2	0.5	*50525H	AP Chemistry	2.0
	****Career Education****		20226W	Contemporary World Issues	0.5	*50532B	Core Physics	1.0
90E	Careers in Education 1	1.0				*50532A	CP Physics	1.0
91E	Careers in Education 2	1.0				*50531H	Honors Physics	1.0
	*****English*****			****World Languages****		*50533H	AP Physics 1	2.0
10160B	Core English 9	1.0	*30301E	German 1	1.0	*50544X	Zoology PA Wildlife	1.0
*10160A	CP English 9	1.0	*30302E	German 2	1.0	*50541X	Environmental Science	1.0
*10160H	Honors English 9	1.0	*30303E	German 3	1.0	*50547A	Forensic Science	1.0
10162B	Core English 10	1.0	*30304H	Honors German 4	1.0	*50550A	Human Biology	1.0
*10162A	CP English 10	1.0	*30311E	Spanish 1	1.0	*50552H	Honors Anatomy and Physiology	1.0
*10162H	Honors English 10	1.0	*30312E	Spanish 2	1.0			
10164B	Core English 11	1.0	*30313E	Spanish 3	1.0	*50551H	Honors Genetics	1.0
*10164A	CP English 11	1.0	*30314H	Honors Spanish 4	1.0	50545H	Honors Emerging Health Professions	4.0
*10164H	Honors English 11	1.0						
*10114H	AP Language & Comp.	1.0	40402X	Core Algebra 1	2.0		*****Business*****	
10168B	Core Cont. & World Lit	1.0	40400B	Core Algebra 1A	1.0	60600W	Career Explor. & Tech.	0.5
*10168A	CP Cont. & World Lit	1.0	40403B	Core Algebra 1B	1.0	60604W	Digital Literacy	0.5
*10168H	Honors Cont. & World Lit	1.0	*40401X	CP Algebra 1	1.0	60625W	CS Discoveries	0.5
*10112H	AP Literature & Comp.	1.0	*40404A	Accelerated Algebra 1	1.0	60627W	Creating Mobile Apps	0.5
*10113C	Research & Composition Dual	1.0	40422B	Core Geometry	1.0	60628W	The Business of Game Development	0.5
10115W	Studio & Media Studies 1	0.5	*40421X	CP Geometry	1.0			
10116W	Studio & Media Studies 2	0.5	*40423H	Honors Geometry	1.0	60629W	The Business of Game Development 2	0.5
10117E	Journalism 1	1.0	*40410X	CP Algebra 2	1.0			
10118E	Journalism 2	1.0	*40411H	Honors Algebra 2	1.0	60633W	Web Design 1	0.5
10120E	Yearbook Production	1.0	40426B	Math for Modern Living	1.0	60634W	Web Design 2	0.5
10121W	Mythology	0.5	40462B	Consumer Math	1.0	60601W	Introduction to Business	0.5
*10131D	Speech/Public Speaking/ Dual Enrollment-Honors	1.0	40427X	Principles of Math	1.0	60621X	Accounting 1	1.0
10132W	Creative Writing	0.5	*40431A	CP Trigonometry/Algebra 3	1.0	60622X	Accounting 2	1.0
	*****ESL*****		*40432H	Honors Trig./Algebra 3	1.0	*60602X	Business Law	1.0
88X	English as a Second Lang.	1.0	*40441X	Calculus	1.0	60640W	Entrepreneurship	0.5
87W	EL Enrichment	0.5	*40451H	AP Calculus AB	1.0	60605W	Sports & Entertain Mktg	0.5
			*40452H	AP Calculus BC	1.0	60620E	Personal Finance	1.0
			*40461E	CP Probability & Statistics	1.0			
			*40461D	Prob. & Stats. Dual Enrollment - Honors	1.0			
	****Social Studies****		*40461A	AP Statistics	1.0	70700W	*Technology & Engineering*	
20202B	Core American Studies 1	1.0	40470W	Graphing Calc. Coding	0.5	70701W	Intro. to Engineer. Design	0.5
*20201A	CP American Studies 1	1.0					Innovation Through Engineering - STEM	0.5
*20204H	Hon. Amer. Studies 1A	1.0				70702W	Intro to Electronics & Robotics	0.5
20205B	Core American Studies 2	1.0	60625W	CS Discoveries	0.5	70705W	Found. of Mechanical Engineering	0.5
*20204A	CP American Studies 2	1.0	60627W	Creating Mobile Apps	0.5			
*20206H	Hon. Amer. Studies 2	1.0	60628W	The Business of Game Development	0.5	70706W	Intro. to Wood Mfg.	0.5
*20212H	AP United States History	1.0				70708W	Intermediate Wood Mfg.	0.5
20208B	Core Global Studies	1.0	60629W	The Business of Game Development 2	0.5	70710W	Adv. Wood Mfg.- STEM	1.0
*20207A	CP Global Studies	1.0						
*20213D	World History Dual Enrollment	1.0	40470W	Graphing Calc. Coding	0.5			
*20213H	Honors World History	1.0	40469W	Intro to Computer Program.	0.5			
*20214H	AP World History	1.0	40473W	Comp. Prog. Using C++	0.5			
20211B	Core Amer. Gov./ Econ.	1.0	40474W	Comp. Prog. Using Java	0.5			
*20210A	CP Amer. Gov./ Econ.	1.0	*40476H	Honors CS Principles	1.0			
*20230H	Hon. Amer. Gove./Econ.	1.0	*40477H	AP CS Principles	1.0			
*20222A	AP U.S. Government & Politics	1.0	*40478H	Advanced Placement Computer Science A	1.0			
*20228H	AP Micro/Macroeconomics	1.0	60633W	Web Design 1	0.5			
			60634W	Web Design 2	0.5			

COURSE LISTING

Course #	Subject	Cr.	Course #	Subject	Cr.	Course #	Subject	Cr.
	Family & Consumer			*****Music*****				
80800W	Baking and Nutrition	0.5	90951X	Concert Band	1.0			
80802W	Cooking and Nutrition	0.5	90952Y	Concert Band Split	0.5			
80804W	American Cuisine	0.5	90953Y	Concert Choir Split	0.5			
80806W	International Cuisine	0.5	90954X	Concert Choir	1.0			
80807W	Creative Cuisine	0.5	90955Z	Zephyr Choir	1.0			
80808W	Fashion & Textile Design	0.5	90956Z	Tenor/Bass Choir	1.0			
80809W	Fashion & Textile Design 2	0.5	90957Z	Treble Choir	1.0			
80810W	Interior Design	0.5	90961W	Music Theory 1	0.5			
80821W	Independent Living	0.5	90962W	Music Theory 2	0.5			
80822W	Child Development	0.5	90963X	AP Music Theory	1.0			
80823W	Sports & Nutrition	0.5	90972W	Learn to Play the Piano 1	0.5			
	*****Art*****		90973W	Learn to Play the Piano 2	0.5			
90902X	Foundations of Studio Art	1.0	90974W	Theatre Arts I	0.5			
90903W	Studio Art	0.5	90975X	Theatre Arts II	0.5			
90930W	Studio Art Around the World	0.5	90976W	Intro. to Musical Theatre	0.5			
90904W	Drawing 1 – The Study of Forms	0.5	90979W	Instrumental Techniques 1	0.5			
90907W	Drawing 2 – The Study of Spaces and Faces	1.0	90980W	Instrumental Techniques 2	0.5			
90922D	Adv. Draw. Dual Enroll.	1.0	90981W	Popular Music 1	0.5			
90912W	Cartooning 1	0.5	90982W	Popular Music 2	0.5			
90913W	Cartooning 2	0.5	90983W	Popular Music 3	1.0			
90919W	Painting 1	0.5						
90921W	Painting 2	1.0						
90924W	Watercolor Painting 1	0.5						
90925W	Watercolor Painting 2	0.5						
90932W	Ceramics 1 – Pottery	0.5						
90934W	Ceramics 2 – Sculpture	0.5						
90938W	Digital Photography	0.5						
90940W	Intro to Animation	0.5						
90942W	Digital Arts	0.5						
70714W	Graphic Design	0.5						