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## ADMINISTRATION & COUNSELORS

### PHS ADMINISTRATIVE TEAM

- Mr. Nathan Davidson, *Principal*
- *Assistant Principals*
  - Dr. Maggie Drake
  - Mrs. Crystal George
  - Dr. Terrance M. Meehan
  - Mrs. Terri Plattner
  - Mr. Peter Sherman
  - Mr. John Monahan, *Instructional Supervisor*
  - Mr. Andrew Stephens, *Director of Athletics*
  - Dr. Renee Mosser, *Director of Visual & Performing Arts K-12*

### PHS GUIDANCE COUNSELORS

(Based on student's last name: 9th-12th grade)

Class of 2026 and 2027	Class of 2028 and beyond
Mr. Michael Turrell: A – BRN	Mr. Michael Turrell: A – BO
Mr. Eric Roberts: BRO – DES	Mr. Eric Roberts: BR – DIU
Mr. Ryan Hulmes: DET – GAQ	Mr. Ryan Hulmes: DIV – GRE
Mr. Jeremy Gordon: GAR – HOK	Mr. Jeremy Gordon: GRH – KAR
Ms. Bryna Witkowski: HOL – LAK	Ms. Bryna Witkowski: KAS – MARC
Mrs. Jennifer Tabarani: LAL – MIL	Mrs. Jennifer Tabarani: MARD – NT
Ms. Danene Krenicky: MIM – PLN	Ms. Danene Krenicky: NU – RAJ
Mrs. Meredith McGarr: PLO – SCI	Mrs. Meredith McGarr: RAK – SCH
Mr. Lee Rizzotto: SCJ – THE	Mr. Lee Rizzotto: SCI – TOR
Mrs. Christine Thomas: THF – Z	Mrs. Christine Thomas: TOT – Z

## **PARKLAND MIDDLE SCHOOLS**

### **OREFIELD MIDDLE SCHOOL**

- Dr. Monica Ouly-Uhl, *Principal*
- *Assistant Principals*
  - Mrs. Tammy Bennick
  - Mr. Thomas J. Stoudt, Jr.

### **SPRINGHOUSE MIDDLE SCHOOL**

- Dr. Jude Sandt, *Principal*
- *Assistant Principals*
  - Mrs. Amanda Abdelaal
  - Dr. Sarah Brandt

### **OREFIELD MIDDLE SCHOOL COUNSELORS**

- Mrs. Elaine Letoski
- Mr. Sean Stackhouse
- Ms. Lynda Strohl

### **SPRINGHOUSE MIDDLE SCHOOL COUNSELORS**

- Mrs. Megan Bauer
- Mrs. Megan Jenkins
- Mr. Michael Gross

## **PARKLAND SCHOOL DISTRICT OFFICE OF TEACHING & LEARNING (SECONDARY)**

- Dr. Jason Henry, *Director of Teaching & Learning, Secondary*
- Mr. James Moniz, II, *Director of Online Learning, Alternative Education and Assessment*

## **PARKLAND SCHOOL DISTRICT CENTRAL ADMINISTRATION**

- Dr. Mark J. Madson, *Superintendent*
- *Assistant Superintendents*
  - Mr. Timothy Chorones
  - Dr. Michelle Minotti

## COUNSELING SERVICES

School counselors are an excellent resource when concerns or questions arise regarding course selection and post-secondary planning. Conferences can be requested if students are not achieving at levels commensurate with a student's ability and academic progress is not being made. In addition, counselors are available to work with students who exhibit at-risk behaviors or face adjustment and transition problems. Appointments can be scheduled by contacting the respective counseling offices of each school.

Parkland High School (610) 351-5610

Orefield Middle School (610) 351-5750

Springhouse Middle School (610) 351-5700

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## COURSE GUIDELINES

### GUIDELINES FOR PROGRAM PLANNING

Planning your program of study each academic year is one of the most important tasks a student will complete throughout the four years at Parkland High School. Students will be guided through this process by faculty, counselors, and administrators as they closely follow graduation requirements. Counselors will present an overview of the program of studies book, highlighting prerequisites and course sequences. In addition, all teachers will review the content for next year's courses and provide guidelines to assist with selection in their specific areas. Listed below are some basic guidelines to follow when selecting courses for the next academic school year:

- 1 Motivation, interest and aptitude are important factors to consider when selecting courses. Students are encouraged to challenge themselves with the most demanding course of studies they can successfully complete in a given academic year.
- 2 Previous levels of achievement should be reviewed to determine possible course selection.
- 3 Graduation requirements must be reviewed each year to determine appropriate progress in all required subject areas.
- 4 Students must select a complete schedule consisting of a minimum of 6.25 credits each year. Credit and period requirements are listed on the front of the registration sheet for each grade level.
- 5 Students should review their academic records to identify areas of strength and weakness. This information should be considered when planning for the upcoming academic year.

Teachers and counselors will review the course selections for students, advising them of an appropriate academic program of studies. Teacher recommendations can be a valuable source of information, guiding the student through the correct course sequences. Counselors will meet with each student to review the entire academic schedule and to track graduation requirements. Parents will be contacted if a course selection appears to be too difficult for a student to complete successfully. This determination will be based upon previous classroom performance, test scores and other standardized data. As a team, the student, parent, teacher and counselor will work together to select a challenging, yet realistic, academic program of studies for each pupil at Parkland High School.

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## CAREER PATHWAYS

Career Pathways is a comprehensive program of career awareness, exploration, and preparation/application. K- 12 in nature, Career Pathways establishes a curriculum with two different, yet equal, programs of study. Both the “Traditional Academic” pathway and the “Technical Academic” pathway offer a rigorous, practical education which helps students focus on a non-binding career cluster in high school and guides them in the selection of course sequences necessary to achieve their educational and career objectives. Parkland’s goal is to meet the individual needs of students while, at the same time, preparing them to find success as an adult.

The Career Pathways program aims to achieve the following objectives:

- 1 To raise the level of learning and meaning for all students
- 2 To prepare all students for lifelong learning
- 3 To provide for an improved system of counseling and management for students
- 4 To provide for flexibility in career choice and focus in course planning

## HOW DOES CAREER PATHWAYS WORK?

By the middle of eighth grade, students will have been introduced to the four broad career clusters that form the basis of the Career Pathways model. They are as follows:

- 1 Business and Communication Technology
- 2 Engineering and Industrial Technology
- 3 Arts and Humanities
- 4 Health and Human Services

Students will then choose their academic focus by enrolling in the “Traditional Academic” program, which is for students whose plans include study at a traditional four-year college or university, junior college, or community college, or the “Technical Academic” program, which is for students whose interests lie in the pursuit of a career through study at a vocational-technical school, trade school, business school, or initial entry into the world of work. Students will then focus on a flexible career plan within their chosen path.

Also, within the core curriculum of the “Traditional Academic” and “Technical Academic” programs are a list of electives within the four career clusters from which students will choose. If at any time throughout high school the student changes his or her mind about a pathway or cluster, Career Pathways offers the flexibility for students to redirect their course of study.

Finally, within each section of this Course Description Guide, charts will specify which elective courses align to each of the four career pathways as aforementioned. Students and their families are encouraged to select courses that will help them with studies in that respective pathway. Look for the “Career Pathways” charts within each content area section of this book.

## TRADITIONAL ACADEMIC PATHWAY

The Traditional Academic curriculum is designed for the student who wishes to pursue a career that requires four or more years of education at a college or university. Students who select the Traditional Academic curriculum should elect subjects necessary to satisfy college entrance requirements. The term “college” is used to include junior colleges, nursing schools, technical institutes, and other institutions of higher education.

Students who are planning to enter a four-year college or university must realize that entrance requirements as well as graduation requirements vary with each institution. It is important that college bound students begin to study college catalogs and consult with their counselors in the sophomore year. It is imperative that students continue their study of mathematics, science, and foreign languages to challenge the limits of their ability and not to meet the minimum requirements of any one college.

Every college admissions committee looks favorably upon the student who has studied in subjects beyond minimum requirements. Many colleges will exempt students from basic required courses when the high school records indicate advanced study, and the students indicate proficiency by special examination. In addition to wise course selection, high academic achievement is an essential requirement for college admission.

Criteria are listed as prerequisites for entrance to the most challenging courses. All students must meet established criteria for gifted/high potential, honors and advanced placement course offerings.

## **COURSE SELECTION FOR THE TRADITIONAL ACADEMIC PATHWAY**

Students who select the Traditional Academic pathway should choose courses according to the following schedule:

	<b>9th Grade Trad. Acad.</b>	<b>10th Grade Trad. Acad.</b>	<b>11th Grade Trad. Acad.</b>	<b>12th Grade Trad. Acad.</b>
English	1 credit	1 credit	1 credit	1 credit
Social Studies	1 credit	1 credit	1 credit	1 credit
Mathematics	1 credit	1 credit	1 credit	Optional Math or other 1 credit elective
Science	1 credit	1 credit	1 credit	Optional Science or other 1 credit elective
World Language or Elective #1	1 credit	1 credit	WL or other 1 credit elective	Optional WL or other 1 credit elective
Health/ Physical Education/ Driver Ed.	.25 credit	.5 credit for PE/Health & Driver Edc.  .5 credit for Career Explorations	.25 credit	.25 credit
Elective #2* **	1 credit	1 credit	1 credit	1 credit

\* One full year or two semester electives must be chosen.

\*\* For Class of 2028 and beyond, students must take Personal Finance OR Independent Living to fulfill PDE's Personal Finance graduation requirement.

## TECHNICAL ACADEMIC PATHWAY

The Technical Academic curriculum is designed for the student who wishes to pursue a career that requires specialized career and technical training and a two-year technical or trade school. Students who wish to be prepared for a specific technical or occupational field, or who desire to pursue college or further post-secondary education are eligible to apply to the Lehigh Career and Technical Institute for admission to the program of their choice. Accepted students spend one-half of the educational day at the Lehigh Career and Technical Institute, the other half of the day is spent at Parkland High School where students fulfill most academic requirements. Since the time spent in attending required classes at the home school is primary, there is limited opportunity for elective subjects. Students must successfully complete all scheduled required subjects to qualify for graduation from Parkland High School.

## COURSE SELECTION FOR THE TECHNICAL ACADEMIC PATHWAY (LCTI)

Students who choose the Technical Academic pathway and plan to take a half-day program at LCTI should select courses according to the following schedule:

	<b>9th Grade Technical Academic</b>	<b>10th Grade Technical Academic</b>	<b>11th Grade Technical Academic</b>	<b>12th Grade Technical Academic</b>
English+	1 credit	1 credit	1 credit	1 credit
Social Studies+	1 credit	1 credit (taken at LCTI)	1 credit	1 credit
Mathematics	1 credit	1 credit	1 credit	Optional Math or other 1 credit elective
Science	1 credit	1 credit	1 credit	Optional Science or other 1 credit elective
Health/ PE/ Driver Ed.		.5 credit for PE/Health & Driver Ed. .5 credit for Career Explorations	.5 credit at LCTI	.25 credit
Elective*				1 credit***
Career and Technical**	**3 C & T credits	**2 C & T credits	**2.5 C & T credits	**3 C & T credits

+ Students who are enrolled in 1/2 day LCTI will have the opportunity to enroll in CEW classes in English and Social Studies.

\* One full year or two semester electives must be chosen

\*\* Variations will occur based on individual need.

\*\*\* For Class of 2028 and beyond, students must take Personal Finance OR Independent Living to fulfill PDE's Personal Finance graduation requirement.

## FULL DAY LCTI OPTION

LCTI students have the option of attending LCTI for a full day, taking their academic courses in their Academic Center. Their schedule will follow the format shown below:

**(Full Day LCTI Option Not Available to Freshmen)**

10th Grade	11th Grade	12th Grade
Math 1.0 Credit	Math 1.0 Credit	Math or Science Elective, Dist. Learn., LCCC Course 1.0 Cr.
Science 1.0 Credit	Science 1.0 Credit	Govt./Economics 1.0 Credit
English 2 1.0 Credit	English 3 1.0 Credit	English 4 1.0 Credit
US History 2 1.0 Credit	World Cultures .5 Credit Wellness/Fitness .5 Credit	Adv. CPR, First Aid .5 Credit Wellness/Fitness .5 Credit
Career & Tech Ed. 3.0 Credits	Career & Tech Ed 3.0 Credits	Career & Tech Ed. 3.0 Credit
Total = 7.0 Credits	Total = 7.0 Credits	Total = 7.0 Credits

Total Credits Earned:

(LCTI Gr. 10–12) 21 + (9th Grade) 6.25 = 27.25 Credits (full day 9th grade at PHS)

28.00 Credits (if half day LCTI program in 9th gr.)

## LEVELS OF COURSE OFFERINGS

### ADVANCED PLACEMENT (AP)

AP courses are offered in the areas of English, social studies, science, mathematics, world languages, art, and music. AP courses are college-level courses that use the College Board’s suggested curricula to prepare students for the AP exams. Students understand from the beginning that success in an AP course will require extra study time and effort. **Grades earned in AP courses are weighted and are weighted only after successfully completing the course. In addition, several AP courses have a required summer assignment that students must complete by the first day of school. Be sure to read the course descriptions for specific information about this.**

**Resources:** Students are expected to be able to read and understand a college-level textbook. The textbooks used in the AP courses are also used by schools such as Georgetown and Princeton. Weekly reading assignments are lengthy (30 to 50 pages or more) and involved. This is not light reading. Outside reading is also college level. Student purchase of an AP test preparation book is also strongly recommended.



**Course Content:** The concepts to be mastered for the AP tests are spelled out clearly by The College Board and serve almost exclusively as the basis for the curricula. These standards reflect the content of most college courses; therefore, the AP class is essentially a college course. The curriculum is driven by the need to meet the AP test objectives. These objectives, and other information about AP courses, can be found at <https://apcentral.collegeboard.org/courses>.

**Assessments:** The majority of a student's grade in an AP class will be based on unit tests and papers. Tests in AP classes are challenging. They will follow or mimic the format of the actual AP test. Therefore, they will consist of equal parts objective and subjective questions.

## HONORS

Honors courses are designed to offer a greater depth of instruction at an accelerated pace. Placement into honors courses is based on exceptional performance and achievement in previous courses. The teacher recommendation is one of the strongest and most reliable criteria for honors placement. It is also important to recognize that honors courses place higher demands on a student's time. A demonstrated ability to work with a heavier academic workload is essential. Likewise, there is an increased demand for student participation in discussion and independent learning. **Grades earned in Honors courses are weighted and are weighted only after successfully completing the course. In addition, several Honors level courses have a required summer assignment that students must complete by the first day of school. Be sure to read the course descriptions for specific information about this.**

## GIFTED/HIGH POTENTIAL (GHP)

The Parkland School District provides programs for its Gifted/High Potential students in the areas of English, social studies, math, and science. While the basic content of the regular program will be presented at each grade level, activities and methods are used that are intended to develop higher order thinking skills. This is brought about using more advanced supplemental teaching materials and more advanced research methods. Students in these programs have the advantage of working with students of similar ability. Although the student may choose to build a program of courses at the College Preparatory level, it is recommended that consideration be given to one or more of the Gifted/High Potential courses that are available. Participation will usually demand more time and work than courses at the College Preparatory level because these classes have been planned to provide the student with a challenge and with advanced academic skills. Weighted grades are not used in the evaluation of student progress in these courses.

## COLLEGE PREPARATORY (CP)

The College Preparatory curriculum is moderately paced and serves the student who requires the traditional academic preparation necessary for higher education. Students are required to analyze pieces of literature, use traditional research methods, make oral presentations, work collaboratively with peers, and write papers. It is designed to build skills and knowledge needed for students who plan to enroll in a four-year college or university.

## CAREER, EDUCATION, & WORK READINESS (CEW)

CEW courses are only available for students who are enrolled at LCTI. This level exists in our English and Social Studies course offerings and provides LCTI students with opportunities to develop the skills and competencies needed for success academically and within their trade of study. Students will enrich their understanding of the skills needed for success with their LCTI labs through various content-based activities and assessments in English and social studies. *Note that only students who attend LCTI may take CEW courses, though LCTI students may take other course levels as well.*

## SEMINAR

Seminar courses will be available for students in grades 9 and 10 in English and social studies only. These courses are designed to assist students with developing future goals as well as the skills necessary to be successful in either the study of trades (at LCTI) or at the College Preparatory level. Content based activities along with real-world applications will assist students with determining their future paths and career goals. By the end of 10th grade, students will either continue their studies in English and social studies at the College Preparatory level at PHS or at the CEW level if attending LCTI.

## GRADUATION REQUIREMENTS

### COURSE REQUIREMENTS AND CREDIT DISTRIBUTION

<b>English</b>	4.0 credits
<b>Social Studies</b>	4.0 credits
<b>Mathematics</b>	3.0 credits
<b>Science</b>	3.0 credits + Biology is REQUIRED for all students.
<b>Health/Phys. Ed/Driver's Ed.</b>	1.25 credits
<b>Career Explorations</b>	.5 credit
<b>Electives</b>	8.5 credits (some requirements- see "Considerations")
<b>TOTAL CREDITS</b>	<b>24.25 credits (minimum)</b>

\* NOTE: Students successfully completing the LCTI full day academic program will satisfy Parkland's academic graduation requirements.

### CONSIDERATIONS

- Students at PHS are required to schedule the following minimum number of credits per year: 6.25 for each grade level, 9-12
- Total credits to be scheduled = 25.25 (assumes no failures or repeated courses)

### ELECTIVE AREAS

- 8.5 credits required in electives in grades 9 – 12 distributed as follows:
  - 0.5 credit in Personal Finance (652) OR Independent Living (839) (For Class of 2028 and beyond only)
  - 1.0 credit in Technology Applications
  - 3.0 credits in Arts and Humanities
  - 4.5 credits in open choice electives
- Note: Certain courses may count as a required course or an elective but may not count as both. (For example- Physics.)

## TECHNOLOGY APPLICATIONS (1.0 CREDIT REQUIRED)

- Par Key/Yearbook
- Trumpet/Newspaper
- Intro to Mass Communication
- Video in the Digital Age
- Producing and Directing Film and Video
- Parkland Morning News
- Parkland Midday News
- AP Statistics
- Statistics
- Trigonometry/Statistics
- Game Development and Design
- Meteorology
- Astronomy
- Geology of National/State Parks
- Physics GHP
- Physics CP
- AP Physics 1
- AP Physics 2
- AP Physics C- Mechanics
- AP Physics C- Electricity and Magnetism
- Intro to Business
- College & Career Success Skills
- Personal Keyboarding
- IT Certification Exploration
- HTML and Web Page Design
- Marketing
- Sports Administration
- Business Management
- Business Law
- Personal Finance (Classes of 2026 and 2027 only)
- Investing
- Entrepreneurship
- Accounting 1
- Accounting 2
- Photography 2
- Photography 3
- Computer Art 1
- Computer Art 2
- Computer Animation
- Piano 1
- Piano 2
- Music Theory 1
- Music Theory 2
- AP Music Theory
- Music Production 1
- Music Listening and Literature Honors
- Fashion and Wardrobe Construction
- Fashion Design/Merchandising
- Creative Crafts
- Interior Design
- Intro to Drafting
- Residential Architecture
- Advanced Architecture
- 3-D Comp Design and Animation
- Production Materials and Processes
- Manufacturing Systems
- Basic Electronics
- Transportation and Energy
- Innovation and Invention
- Comp Sci Essentials Honors- PLTW
- AP Comp Sci Principles- PLTW
- AP Comp Sci A- PLTW
- Cybersecurity Honors- PLTW
- Principles of Biomed Honors- PLTW
- Human Body Systems Honors- PLTW
- Medical Interventions Honors- PLTW
- Biomed Innovation Honors- PLTW
- Intro to Eng Design Honors- PLTW

- Accounting Honors
- School Store Practice
- Photography 1

- Princ of Engineering Honors- PLTW
- Comp Int Manufact Honors- PLTW
- Digital Electronics Honors- PLTW
- Aerospace Engineering Honors- PLTW
- Civil Eng and Arch Honors- PLTW
- PLTW Capstone- PLTW

## **ARTS AND HUMANITIES (3.0 CREDITS REQUIRED. 1.0 CREDIT REQUIRED FOR LCTI STUDENTS)**

- Par Key/Yearbook
- Trumpet/Newspaper
- Public Speaking
- Theatre Arts 1
- Theatre Arts 2A
- Theatre Arts 2B
- Theatre Arts 3
- Theatre Arts 4
- Parkland Midday News
- Journalism
- Intro to Mass Comm
- Video in the Digital Age
- Prod and Dir Film and Video
- Parkland Morning News
- Creative Writing 1
- Creative Writing 2
- Greek and Roman Mythology
- Sports in Literature
- Technical Theatre
- AP Human Geography
- AP European History
- AP Afr Amer Studies
- General Psych
- Elective Sociology
- AP Psych
- Intro to Crim Justice
- German 3 Honors
- French 4 Honors
- German 4 Honors
- Spanish 4 Honors
- Chinese 1
- Chinese 2
- Arabic 1
- Arabic 2
- AP Studio Art: 2-D Design
- AP Studio Art: 3-D Design
- Painting 1
- Painting 2
- Drawing 1
- Drawing 2
- Portfolio Preparation
- Photography 1
- Photography 2
- Photography 3
- Art History AP
- Computer Art 1
- Computer Art 2
- Ceramics 1
- Ceramics 2
- Jewelry and Metals 1
- Traditional Crafts
- Graphics and Animation

- Criminal Invest
- Law Enforcement and Society
- Criminal Evidence and Court Procedure
- Heritage Spanish 1
- Heritage Spanish 2
- Latin 1
- German 1
- Spanish 1
- Sign Language 1
- French 2
- Latin 2
- German 2
- Spanish 2
- Sign Language 2
- French 3
- German 3
- Spanish 3
- Sign Language 3
- Spanish 2 Honors
- Spanish 3 Honors
- French 4
- German 4
- Spanish 4
- Sign Language 4
- French 1
- French AP: Language and Culture
- German 5
- German AP: Language and Culture
- Spanish AP: Language and Culture
- Spanish 5
- French 5
- Spanish AP: Literature and Culture
- French 2 Honors
- French 3 Honors
- German 2 Honors
- Jewelry and Metals 2
- Music and Literature
- Music Theory AP
- Concert Choir
- Concert Choir
- Band
- Band
- Orchestra
- Orchestra
- Piano
- Piano 2
- Music Theory 1
- Music Theory 2
- Music Production 1
- Band (9-10, 11-12)
- Concert Choir (9-10, 11-12)
- Intro to Strings
- Intermediate Strings
- Orchestra (9-10, 11-12)
- Fashion and Wardrobe Construction
- Creative Crafts
- Interior Design
- Basic Foods
- American Foods
- International Foods
- Nutrition for Fitness
- Independent Living (Classes of 2026 and 2027 only)
- Parenting
- Child Development
- Child Development Laboratory
- Child Development Management
- Fashion Design/Merchandising
- ETAP
- AP Studio Art: Drawing 3

## KEYSTONE EXAMS

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. **Beginning with the class of 2023, students must demonstrate proficiency on the Algebra 1, Literature, and Biology Keystone Exams to graduate.** Students not demonstrating proficiency will be offered multiple opportunities to take the keystones throughout their high school careers.

## CAREER EXPLORATIONS

The purpose of the Career Explorations course is to teach students how to match personal needs and expectations with satisfying career options. Students will learn self-assessment skills, research major and career alternatives, and make decisions based upon sound factual information, utilizing a variety of resources. The course will also provide students with a 100% online learning experience. Students will complete an online course and a digital portfolio during this self-reflection of interests using tools designed in Career Cruising. Completion of this course will be determined when all online modules are complete. Upon the completion of the high school project, the student will receive .5 credit. The project does not factor into the student's GPA or class rank.

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## EARLY COLLEGE

Parkland High School affords students the opportunity to get a head start on earning college credits while still in high school. Students can do this in a couple of ways:

- 1** Sign up for a dual enrollment course, which allows students to earn BOTH Parkland High School credit AND college credit while still in high school. This is only available with certain courses and is optional, not required.
- 2** Waiving junior and senior years at PHS to attend LCCC full time.
- 3** Sign up for college courses during senior year. Senior students have the option of doing one of the following:
  - Waive their senior year at PHS to attend LCCC full time during their senior year, OR
  - Attend a local 4-year college/university on a part-time basis while also taking courses at PHS to fulfill graduation requirements.

## DUAL ENROLLMENT

Parkland students can earn college credits for taking certain courses while also fulfilling Parkland's graduation requirements. Credits earned can be applied to a degree from the colleges/universities with whom we have partnered and may also be considered for transfer to other institutions of higher learning. Most courses are taught at the high school by a Parkland teacher, though some are taught by a college professor on or off campus. Tuition fees vary by institution, and students and their families are responsible for all costs and any travel (for off campus offerings) associated with these courses. In addition, if a student is interested in transferring these credits to another institution of study, students and their families are responsible for contacting their schools of interest to determine if credits will be accepted at these schools.

Parkland High School students have several options for taking Dual Enrollment courses. A variety of courses can be taken through Lehigh Carbon Community College (LCCC), including classes in visual arts, math, world language, basic aviation, and criminal justice. In addition, students can take Dual Enrollment courses in Spanish, French, German, and Latin through Seton Hall University. Also, some of our Project Lead the Way (PLTW) courses afford students the chance to earn college credits at select post-secondary institutions. Please check with your child's PLTW instructor(s) for more information. (Note that Dual Enrollment is optional as students are not required to do this.)

## LCCC DUAL ENROLLMENT

LCCC offers Dual Enrollment opportunities for students at Parkland High School in a variety of subject areas. As of 2024-2025, tuition for courses taught by PHS instructors was \$90 per 3-credit course and \$120 per 4-credit course. Tuition for courses taught by LCCC professors at PHS during the school day was \$165 per 3-credit course plus the cost of the textbook(s), and these courses are denoted with an (\*) next to the Parkland Course Title in the chart found in the chart below (but is subject to change). In addition to these courses, seniors may choose to take a Private Pilot Flight Theory course, denoted with (\*\*). Seniors who choose this course will travel to LCCC's Airport Site Campus, located at Lehigh Valley International Airport. Note that courses taught by LCCC professors generally require an enrollment of 15 or more students to run. **All tuition rates are subject to change at any time as per LCCC.**

Many of the LCCC Dual Enrollment courses are open to students in grades 9-12 who have elected to take one of these courses. The following courses will be offered (but are subject to change based on enrollment and/or availability of LCCC professors) for LCCC Dual Enrollment credit during the 2025-2026 school year:

PHS Course #	Parkland Course Title	LCCC Course Title & Number	Credits
703	Drawing 1	ART 110: Drawing I	3
704	Drawing 2	ART 210: Drawing II	3
701	Painting 1	ART 115: Painting I	3
707	Photography 1	ART 119: Digital Photography	3
718	Jewelry & Metals 1	ART 125: Jewelry & Metalsmithing I	3
716	Ceramics 1	ART 130: Ceramics I	3
516	Sign Language 1	ASL 101: American Sign Language I	3
526	Sign Language 2	ASL 105: American Sign Language II	3
536	Sign Language 3	ASL 106: American Sign Language III	3
343	AP Calculus, Level BC	MAT 196: Calculus & Analytical Geometry II	4
344	Advanced Topics in Calculus	MAT 201: Calculus & Analytical Geometry III	4

PHS Course #	Parkland Course Title	LCCC Course Title & Number	Credits
399	Transitional College Math	MAT 105: Intermediate Algebra	3
284	Intro to the Criminal Justice System *	CJA 101: Intro. to the Criminal Justice System	3
286	Criminal Investigations *	CJA 105: Criminal Investigations	3
287	Law Enforcement & Society *	CJA 215: Law Enforcement & Society	3
288	Criminal Evidence and Court Proc *	CJA 2-1: Criminal Evidence & Court Proc	3
590	Chinese 1	CHN 105: Elementary Chinese I	3
591	Chinese 2	CHN 106: Elementary Chinese II	3
592	Arabic 1 *	ARB 105: Elementary Arabic I (offered during 3 periods 1 & 2 for 2 days/wk. at PHS)	3
593	Arabic 2 *	ARB 106: Elementary Arabic II (offered during 3 periods 1 & 2 for 2 days/wk. at PHS)	3
9747	Private Pilot Flight Theory **	ASA 111: Private Flight Theory	3

## SETON HALL UNIVERSITY

Since 1978, Project Acceleration, a program within the College of Arts and Sciences at Seton Hall University (SHU), has allowed high school students in Pennsylvania, New Jersey, and New York to get a head start on their university careers. Over the course of their high school career, students can earn up to 22 credits from SHU for approved courses taken in their secondary schools. The college credits earned through Project Acceleration are accepted at more than 200 colleges and universities. There are currently 175 high schools offering Project Acceleration courses and approximately 3000 students participate each year. As of the 2024-2025 school year, tuition for Project Acceleration courses is \$110 per credit hour, or \$330 per 3-credit course. (Regular Seton Hall tuition is approximately \$1,540 per credit hour.) **Note that all tuition rates are subject to change at any time as per Seton Hall University.** These courses are only available through our World Language Department and are noted within this section of the course book. Juniors and seniors may register while sophomores may do so with administrative approval.

The list below indicates the Parkland courses that are offered for Dual Enrollment that are available through SHU:



<b>PHS Course #</b>	<b>Parkland Course Title</b>	<b>Seton Hall University Course Title &amp; Number</b>	<b>Credits</b>
544	Spanish 4	SPAN 1001: Elementary Spanish I	3
584	Spanish 4 Honors	SPAN 2001: Intermediate Spanish I	3
555	Spanish 5	SPAN 1002: Elementary Spanish II	3
554	Spanish AP: Language & Culture	SPAN 2002: Intermediate Spanish II	3
541	French 4	FREN 1001: Elementary French I	3
581	French 4 Honors	FREN 2001: Intermediate French I	3
556	French 5	FREN 1002: Elementary French II	3
551	French AP: Language & Culture	FREN 2002: Intermediate French II	3
543	German 4	GERM 1001: Elementary German I	3
583	German 4 Honors	GERM 2001: Intermediate German I	3
552	German 5	GERM 1002: Elementary German II	3
553	German AP: Language & Culture	GERM 2002: Intermediate German II	3

## **ATTENDING LCCC FOR JUNIOR & SENIOR YEARS OR SENIOR YEAR ONLY**

In partnership with Lehigh Carbon Community College (LCCC), Parkland High School juniors and seniors may participate in Early College at LCCC. The options available include:

**OPTION 1:** Attending LCCC in lieu of Parkland High School for BOTH junior and senior year, OR

**OPTION 2:** Attending LCCC in lieu of Parkland High School for senior year only.

Students who are accepted will complete their studies at LCCC's Main Campus in Schnecksville. For students who attend both junior and senior year, they will have the opportunity to earn an Associates Degree while seniors will get a head start on earning college credits while still in high school. These credits are often transferable to four year colleges affiliated with Pennsylvania's Schools of Higher Education. Information about this LCCC program can be found by going to: <https://www.lccc.edu/admissions/dual-enrollment/early-college>

Some additional items of note with this program include:

- To learn more about the Early College options at LCCC, students should contact Mr. Brandon Kwiatek, LCCC's Executive Director of High School Connections & Early College Enrollment Management. His email address is [bkwiatek@lccc.edu](mailto:bkwiatek@lccc.edu), and his office phone number is 610-799-1120.
- Student eligibility will be determined based on academic, attendance, and discipline history while at Parkland High School.
- Students must receive approval from Parkland High School and must be accepted for enrollment into LCCC to participate in this program.

To enroll in this program, students must do the following:

- Students must complete an application with Parkland High School to participate. This application will be available at the beginning of the course registration process.
- Students must also apply to LCCC which is accessible by going to: <https://www.lccc.edu/admissions/how-to-become-a-student/>
- Parents are responsible for the student's travel to and from LCCC and for covering all costs associated with participation, including tuition and textbooks. For more information on tuition costs, please go to: <https://www.lccc.edu/tuition-financial-aid/tuition-fees>
- For students who are accepted into either the full time junior and senior year program or the full time senior year program, families are responsible for any and all technology requirements as per LCCC. Parkland School District issued Chromebooks will not be provided to students who participate in this program.

Regarding academic requirements and scheduling if accepted into this program:

- Students must maintain a 2.5 GPA to remain in this program
- For students who attend for both junior and senior year, they will follow LCCC's prescribed program of studies for their two years, which will align to an Associate's Degree Program.
- For students who attend for senior year only, they will work with their Parkland Guidance Counselor to ensure that Parkland High School's Graduation requirements are fulfilled through LCCC course selection, including English Literature, English Composition, Economics, Government, and PE.
- Students must provide their PHS Guidance Counselor with their LCCC Final Grades upon completion of each semester. Students who are interested in this program may access the application on our high school's website in January when the course selection process for the following school year begins. Completion of this application will be used to determine eligibility in this special program.

## **PART-TIME COLLEGE ENROLLMENT FOR SENIORS**

Several local colleges and universities accept high achieving seniors on a part-time basis, affording them the opportunity to take college courses that are independent of their high school transcript and have no impact on the student's eligibility for graduation from Parkland High School. It is a great opportunity for seniors to acclimate themselves to college level courses as they begin the transition from high school to college. Eligible seniors can take one or more college courses during their senior year while also taking courses at Parkland High School. Students have the option of splitting their day between the college/university campus and the high school either in the morning or afternoon. Students may also take courses after school hours (i.e.- after school, on weekends) if available.

Students who are interested in this should discuss this option with their guidance counselor during the course registration process in the spring of their junior year. Once certain about the desire to accelerate, students must:

- 1** Submit a letter to Mrs. Plattner, Assistant Principal, that declares their interest in attending a college/university on a part time basis during their senior year. This letter should be submitted at least six months prior to the start of the fall semester of the student's senior year.
- 2** Provide proof of acceptance for early admission to college, which must accompany the letter to Mrs. Plattner.

Any and all requests will be closely reviewed. Final approval is at the discretion of Mrs. Plattner. Students will be responsible for supplying their guidance counselor with transcripts in order to be able to attend a college/university on a part-time basis. Transportation costs as well as tuition and other fees are the responsibility of the student and the student's family.

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## **INDEPENDENT STUDY**

Independent study programs are intended to supplement the curriculum already established by each of the major discipline areas at Parkland High School. An independent study is intended to encompass rigorous learning activities for students who have a strong desire to study a subject in depth. Students interested in securing an independent study must contact prospective teachers to collaborate on a proposed course outline including goals and objectives that must be accomplished by the end of the course. The independent study contract must also identify appropriate resource materials and define strategies by which the student can successfully master the stated objectives. The following guidelines must be followed when requesting independent study programs:

- 1** Independent study programs will not be approved for courses that are already offered in the master schedule.
- 2** Independent study programs will not be assigned a weighted grade unless the program being offered is an advanced placement or honors course not offered through the master schedule. Administrative approval is required for all independent study course requests.
- 3** Independent study program contracts must be completed prior to the start of the semester in which the course is being taught.
- 4** Only one independent study program will be approved for a student each semester.
- 5** Independent study programs do not replace selected courses on a student's academic schedule. An independent study is considered an addition to the required courses needed for a complete academic schedule.

All independent study programs will operate under the supervision of a faculty member with prior written approval of the principal or counselor. Requests for independent study programs should be submitted to your school counselor during the regular registration period established for all course selections for the upcoming school year. Credit will be granted for the independent study program only if an approved contract is on file in the Counseling Office. Independent study program grades will be recorded each marking period and a final grade will appear on the student's high school transcript.

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## SCHEDULE CHANGE POLICY

Students initially register for the following year's courses during February of each year. Based upon course requests, administration builds a master schedule that reflects students' interests and demands as well as teacher availability. Course sections and teacher assignments are then made, and adjustments are made to reduce conflicts. The entire process takes several months with the objective of meeting every student's course requests. The deadline for submitting final course requests for the 2025-2026 school year is Friday, May 30, 2025. Requests for schedule changes after this date will not be entertained until the beginning of the 2025-2026 school year. Any errors, conflicts, omissions, or additions to a student's schedule will be resolved as soon as possible. The following guidelines exist for all other schedule changes.

- 1** A schedule change request form must be completed by the student and parent. Forms are available in the Counseling Office and on the high school website starting on the first day of the new school year.
- 2** Schedule changes will be considered for valid educational reasons only. Schedule changes will not be made to accommodate requests for lateral moves within the same subject area.
- 3** The counselor and assigned teacher will review schedule change requests.
- 4** **Full year courses will not be dropped after the first six days of class.** Likewise, semester courses will not be dropped after the first six days of class (unless a student is carrying an overload of seven academic courses).
- 5** **NOTE: Requests to move up or down a level in a full year course after the first six days of the school year requires administrative approval. If approval is granted, grades earned in the previous course will be factored into the rating period grade in the new course. The transfer of grades will be proportional to the amount of time spent in the previous course and will include grades earned for summer assignment work/projects/assessments (if such existed in previous course).**
- 6** Students moving from an Honors or Advanced Placement course to a GHP or CP level course will not be awarded a weighted grade. Students must successfully complete the entire Honors or AP course in order to receive a weighted grade.
- 7** Requests to drop down a level in a course will not be considered unless the student has a 75% or lower in the course.
- 8** Requests to move up to Honors/AP Courses must adhere to the following:
  - Students must make up all of the work from the new Honors/AP class including the summer work (the work from GHP or CP does not take the place of the honors work). This work must be completed within 2 weeks of a student's start date in an Honors/AP course.
  - Moving up is not an option after the end of the fourth weekly cycle.

Withdrawals from a course will not become part of the student record if the course is dropped within the first six days of a full-year class and within the first six days of a semester class. A "W" (Withdraw) will be recorded after those days but prior to the end of the first quarter. Either a "WP" (Withdraw Passing) or "WF" (Withdraw Failing) will be recorded if the course is dropped after the first quarter, indicating the student's progress at the time of withdrawal.

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## ACADEMIC YEAR

The Parkland High School academic year is divided into four rating periods, each of which has approximately 9 weeks. Report cards are accessible through Home Access Center (HAC). Families can also keep apprised of student's grades throughout each rating period through the Parent Viewer of HAC.

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## SUMMER SCHOOL

Summer school programming is designed as a credit recovery program. There are specific rules of eligibility, which are as follows:

- 1 Students who fail a course during the regular session may enroll for that course in summer school if it is being offered.
- 2 The right to do so is not automatically conferred. Administrative approval must be given before any student enrolls in summer school.

Successful completion of summer school programming will be designated by a 60% on a student's transcript.

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## SUMMER ENRICHMENT

- 1 Students may take additional courses during the summer for the purpose of advancement and/or additional study through any of the following: a 2 or 4-year accredited college/university, an accredited online program, or through enrichment courses offered at PHS during the summer.
- 2 **Information about our summer enrichment program, including the courses offered, will be available online at the beginning of February 2025. Current PHS students (grades 9-11) must complete the PHS Summer Enrichment Application to sign up for enrichment. Current OMS and SMS students (grades 6-8) must complete their respective Middle School Summer Enrichment Application to sign up.**
- 3 Students who want to register for a math course offered through PHS must also remit payment to PHS (grades 9-11) or to OMS/SMS (grades 6-8). Payments are payable through check or money order made payable to Parkland School District.
- 4 **The deadline for completing the online application and submitting payment (for courses taken through PHS only) is Friday, April 18, 2025. Applications that are completed with remittance of course tuition will not be considered for summer enrichment enrollment.**
- 5 All requests for summer enrichment must be approved by a designated administrator at their respective school, PHS, OMS, or SMS.
- 6 When taking courses through PHS for summer enrichment: For students in grade 9-11 during the 2024-2025 school year, grades earned in summer enrichment courses through PHS will count towards graduation requirements and will appear on the official transcript. The final course grade will determine eligibility for advancement, which is explained in the online information.

**7** When taking courses off campus for summer enrichment: If the course is to be used to qualify a student for more advanced studies at Parkland, the student must take and pass Parkland’s comprehensive exam in that course. A cutoff score for advancement applies and is explained in the online information. Students must provide a transcript as proof of completion of this course, and the student’s course grade is considered when determining eligibility for advancement.

**8** Students and their families are responsible for all costs and materials required for these courses.

**9** For questions about summer enrichment, please contact the following administrators:

- PHS- Mrs. Terri Plattner, Assistant Principal, [plattnert@parklandsd.net](mailto:plattnert@parklandsd.net)
- OMS- Mrs. Tammy Bennick, Assistant Principal, [bennickt@parklandsd.net](mailto:bennickt@parklandsd.net)
- SMS- Mrs. Amanda Abdelaal, Assistant Principal, [abdelaala@parklandsd.net](mailto:abdelaala@parklandsd.net)

## GRADING & RANKING

### CLASS RANK

Parkland High School does not publicly report class rank, and we will not recognize a valedictorian and salutatorian. Instead, the top 2 – 3% of the graduating class will be acknowledged during Commencement.

### GRADING SYSTEM

Parkland High School uses a three-tiered grading system. This system awards students for taking the most rigorous courses. Shown below is the three-tiered quality point system.

### THREE-TIERED QUALITY POINT SYSTEM

Grade	Numeric Range	Standard Grade Points	Honors Grade Points	AP Grade Points
A+	97-100	4.0	4.50	5.00
A	93-96	4.0	4.50	5.00
A-	90-92	3.67	4.17	4.67
B+	87-89	3.33	3.83	4.33
B	83-86	3.00	3.50	4.00
B-	80-82	2.67	3.17	3.67
C+	77-79	2.33	2.83	3.33

<b>Grade</b>	<b>Numeric Range</b>	<b>Standard Grade Points</b>	<b>Honors Grade Points</b>	<b>AP Grade Points</b>
C	73-76	2.00	2.50	3.00
C-	70-72	1.67	2.17	2.67
D	60-69	1.00	1.00	1.00
F	0-59	0.00	0.00	0.00

Students can learn more about the grading system through their guidance counselors.

## **HONOR ROLL**

The Honor Roll will be published at the end of each quarterly marking period. This listing is made up of names of those students who achieve a quality-point average of 3.25 or higher, identifying them according to the following groupings:

### **DISTINGUISHED PRINCIPAL'S LIST**

- 4.00 +
- No grade < 80 and No Incompletes

### **HIGH HONORS**

- 3.75 – 3.99+
- No grade < 70 and No Incompletes

### **HONORS**

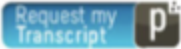
- 3.25 – 3.74
- No grade < 70 and No Incompletes

## **NCAA ELIGIBILITY**

Students planning to participate in Division I or II college athletics must be aware of NCAA academic requirements. (Note that Division III colleges do not use the NCAA Eligibility Clearinghouse.) Students who plan to participate in sports in Division I or II programs must make sure that they are eligible to play. The rules and requirements of NCAA eligibility may be found at the Eligibility Center, [www.eligibilitycenter.org](http://www.eligibilitycenter.org). Please use the Eligibility Center and be sure to consult with your guidance counselor and/or Mr. Hulmes, PHS guidance counselor, to assist you with your NCAA related questions.

Below is a guide for students to review the NCAA eligibility process. As this is a guide, it is NOT a comprehensive description of the policies, procedures, or steps required to establish eligibility in the NCAA.

## GUIDE FOR NCAA ELIGIBILITY PROCESS:

- 1 Start planning by sophomore year. It is important that you work hard so that you can earn the best grades possible.
- 2 Take classes that match Parkland High School's list of NCAA- approved courses (marked with an "\*" within this Program of Studies). The NCAA Eligibility Center will only use approved courses to certify your initial eligibility. You can also access and print Parkland High School's list of NCAA courses by going to [www.eligibilitycenter.org](http://www.eligibilitycenter.org), logging into the student portal, and when prompted, enter Parkland's high school code: 393-125.
- 3 Juniors should register with the Eligibility Center and create an account.
- 4 Juniors registering for the SAT's or ACT's should also list the Eligibility Center as one of their intended recipients of the test scores by entering the code "9999."
- 5 Juniors must also send the transcript to the Eligibility Center at the end of their junior year. Please note that juniors should request their transcript through Parchment, which is Parkland's electronic delivery system. The link to Parchment can be found on the Guidance Department's Homepage at <https://phs.parklandsd.org/departments/guidance> and look for:  

- 6 Juniors should meet with their guidance counselors to review their courses, transcript, and eligibility requirements.
- 7 Seniors should continue to use their "My Planner" tool through the Eligibility Center in order to ensure that they are on track with credits, required documents, and eligibility.
- 8 Seniors must arrange to have their final transcripts sent to NCAA.

## HELPFUL LINKS

NCAA Eligibility Center: [www.eligibilitycenter.org](http://www.eligibilitycenter.org)

Quick Reference Sheet: [http://fs.ncaa.org/Docs/eligibility\\_center/Quick\\_Reference\\_Sheet.pdf](http://fs.ncaa.org/Docs/eligibility_center/Quick_Reference_Sheet.pdf)

Guide for the College Bound Student Athlete: <http://www.ncaapublications.com/productdownloads/CBSA16.pdf>

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## NONDISCRIMINATION POLICY

Parkland School District is an equal opportunity educational institution and will not discriminate on the basis of race, religion, age, color, national origin, sex, handicap or limited English proficiency in its activities, programs or employment practices as required by Title VI, Title IX and Section 504. For information regarding civil rights or grievance procedures, contact Dr. Matt Carlson, Director of Student Services at the Parkland School District Administration Building, 1210 Springhouse Road, Allentown, PA 18104 or call (610) 351-5555. For information regarding services, activities and facilities that are accessible to and usable by handicapped persons, contact Mr. Andrew Weber, Director of Special Education, at the same aforementioned address and phone number.

In compliance with state and federal law, the Parkland School District will provide to each protected handicapped student, without discrimination or cost to the student or family, those related aids, services or accommodations which are needed to provide equal opportunity to participate in and obtain the benefits of the school program and extracurricular activities to the maximum extent appropriate to the student's abilities. In order to qualify as a protected handicapped student, the child must be of school age with a physical or mental disability which substantially limits or prohibits participation in or access to an aspect of the school program.



These services and protections for “protected handicapped students” are distinct from those applicable to all eligible or exceptional students enrolled (or seeking enrollment) in special education programs.

The Parkland School District, in conjunction with the Lehigh Career and Technical Institute, offers a variety of programs. Admission to these programs is available to all students. Criteria for admission are limited to academic aptitude and achievement, and available space.








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## **NON-BINDING NOTE**

This website describes all courses contained in the Parkland High School program of studies; however, not all courses may be offered during one school term. The forms distributed at the time of registration will contain the official list of courses that are available for the coming school term. The school reserves the right to cancel or postpone courses for which insufficient enrollment, lack of physical facilities, or unavailability of teaching personnel necessitates such action.

# DRIVER EDUCATION

## COURSES

-  Advanced Placement  Honors  Project Lead The Way  Dual Credit  Arts & Humanities Credit
-  Tech Applications Credit  NCAA/Clearinghouse

### 026 | DRIVER EDUCATION- THEORY

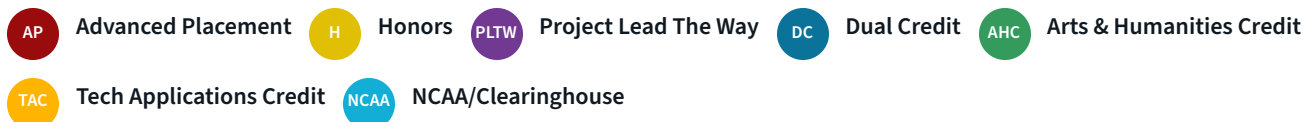
1 Semester | 0.25 Credit | Grade 10

This course, which is offered in the tenth grade and is a required course, emphasizes sound principles of highway safety, students` responsibility in the operation of a motor vehicle, and shows students the effect of physical, mental, and emotional traits on safety. This course includes presentations and discussions on defensive driving, alcohol and drugs, traffic laws and enforcement, driving attitudes, automobile insurance, vehicle maintenance, driver fitness, pedestrian safety and basic and advanced driving techniques. Note that students may complete this course during the summer (between 9th and 10th grade) at Parkland High School to avoid having to schedule this during the school year. A fee applies to the summer course. However, this is only for students who are unable to schedule this course during the school day and for 10th grade LCTI students who may not be able to fit the face-to-face class into their schedule. Requests to move from the face-to-face class to the online class will not be approved after the deadline for submitting schedule changes for the following school year. Students must speak to their guidance counselor about this. Of Final Note: According to the PA Bureau of Licensing, a student must first complete the classroom theory class before a CLIU driving instructor may issue the actual Behind the Wheel (BTW) driver`s licensing test. We realize that some of our students engage in CLIU`s BTW program during the first semester and may not be scheduled for the classroom theory course until second semester. If this is the case, students may inform their BTW instructor at CLIU of this conflict, take the sixth BTW lesson CLIU to receive the BTW certificate and take the driver`s test at the DMV with one of their driving examiners. The law maintains that a state examiner may issue the driver`s test at the DMV with one of their driving examiners. The law maintains that a state examiner may issue the driver`s test to a student without the completion of the theory course, but a driver`s education instructor may not. CLIU also offers an online theory course for a fee. Students interested in taking their online course should inquire at CLIU.

## PHYSICAL EDUCATION

The Health & Fitness program at Parkland High School provides a wide range of aerobic and anaerobic activities to enhance students' personal fitness levels. Lifetime fitness is emphasized throughout the curriculum. Students can also develop skills and techniques in a variety of sport and physical activities. Health is offered in ninth through twelfth grades. The program offers a holistic approach to health. Current health information is disseminated to all students. Students will be able to make responsible health decisions to promote optimum health.

### THE 000 COURSES: PHYSICAL EDUCATION



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#### 011 | PHYSICAL EDUCATION/HEALTH AND SAFETY I 1 Semester | 0.25 Credit | Grade 9

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As a result of participation in a variety of aerobic and anaerobic activities, students will realize an improvement in their personal fitness. Fitness testing techniques will also be discussed and practiced. In aquatics, students will realize an improvement in cardiovascular fitness as well as an improvement in muscular strength and endurance. The health education units will focus on substance abuse, fitness and nutrition, alcohol and tobacco. This is a required course for graduation.

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#### 021 | PHYSICAL EDUCATION/HEALTH AND SAFETY II 1 Semester | 0.25 Credit | Grade 10

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While maintaining a focus on personal fitness, students will have the opportunity to develop skills and techniques in a variety of sports and physical activities with the goal of adding variety and cross training to their personal fitness plans. General rules and basic game strategies will also be addressed as students participate in skill acquisition through drills and lead-up games. The health education units will focus on growth and development and disease management. This is a required course for graduation.

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#### 041 | PHYSICAL EDUCATION/HEALTH AND SAFETY III 1 Semester | 0.25 Credit | Grade 11

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Application of the skills and techniques gained in ninth and tenth grades to both individual and group lifetime fitness activities will be the focus of this course. Students will be 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. Students will also realize affective benefits through their constant interaction and participation with peers. The health education units will focus on safety/first aid, CPR Training (grade 11), mental health, consumer and environmental health and family relationships. Both 041 and 043 are required for graduation.

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**043 | PHYSICAL EDUCATION/HEALTH AND SAFETY IV****1 Semester | 0.25 Credit | Grade 12**

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Application of the skills and techniques gained in ninth and tenth grades to both individual and group lifetime fitness activities will be the focus of this course. Students will be 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. Students will also realize affective benefits through their constant interaction and participation with peers. The health education units will focus on safety/first aid, CPR Training (grade 11), mental health, consumer and environmental health and family relationships. Both 041 and 043 are required for graduation.

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**052 | LIFEGUARDING****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisites: The American Red Cross Skill Evaluation, which requires students to successfully complete the following:

1. Swim-Tread-Swim Sequence – 150 yd swim using front crawl, breaststroke, or a combination of the two, immediately entering a 2-minute tread without the use of one's arms, followed by a 50 yd swim utilizing the same stipulations of the first leg of the test. 2. Timed Event – A participant has 1 minute and 40 seconds to swim 20 yds, surface dive a minimum of 7 ft to retrieve a 10 lb weight, return to the surface of the water and swim back to the starting position retaining both hands on the weight and keeping one's face above the surface of the water. The test concludes when both the weight and the participant exit the pool without the use of a ladder or steps.

In this advanced course, students will have the opportunity to certify with the American Red Cross affording them a lifeguard certification for a maximum of two years. In this course, students will learn a series of lifesaving techniques allowing them to respond in a variety of emergency situations, whether in water or on land. Successful completion, according to the standards set by the American Red Cross, will result in a professional certification in First Aid, CPR, AED, and Lifeguarding. The student will pay for the certification, which is currently \$37.00.

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**054 | STRENGTH TRAINING****1 Semester | 0.5 Credit | Grades 11,12**

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In this advanced course, students will learn principles of strength training such as flexibility training, muscular strength development, muscular endurance, overload principle, program development, and injury prevention. The focus will be based on correct technique, safety, self-paced training, and application of the strength-training principles. Students will be expected to demonstrate the knowledge gained in this course during daily training sessions.

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**058 | INTRO. TO PERSONAL TRAINING****1 Semester | 0.5 Credit | Grades 11,12**

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In this advanced PE elective course, students can learn more about the field of Personal Training, which is growing in popularity as a career across the country. Through a combination of classroom instruction, interactive activities, and modeling, students will obtain the necessary skills to become certified as a Personal Trainer. Note that students must be certified and a high school graduate in order to be employed as a Fitness Trainer Instructor.

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**055 | CARE AND PREVENTION OF ATHLETIC INJURIES, PART 1****1 Semester | 0.5 Credit | Grades 10,11,12**

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Recommended Prerequisite: Successful completion of or concurrent enrollment in Biology. This elective is designed for students who are interested in health and human services careers such as: physical therapy, occupational therapy, personal training, athletic training, nursing, medicine (MD or PA), and physical education. In addition, students who are presently working as student trainers or who are interested in becoming student trainers are strongly encouraged to take this course. Students will study general and athletic injuries and the care taken of these injuries. Diagnosis and evaluation of all injuries and the care required of those injuries will also be examined. This course is supplemented by guest speakers and hands-on, practical experiences relating to the treatment and prevention of injuries.

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**056 | CARE AND PREVENTION OF ATHLETIC INJURIES, PART 2****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Successful completion of Care and Prevention of Athletic Injuries, Pt. 1. This course builds on the concepts taught in part 1 and provides students with a more in-depth experience, using labs and hands-on opportunities to explore different prehab techniques, rehabilitation modalities, and treatments. A large emphasis is placed on understanding the anatomy, physiology, and biomechanics of the major joints, muscle groups, and supportive structures within the body. This elective is designed for students who are interested in health and human services careers such as: physical therapy, occupational therapy, personal training, athletic training, nursing, medicine (MD or PA), and physical education.

## ENGLISH/LANGUAGE ARTS

### 2025 – 2026 PROJECTED ENGLISH/LANGUAGE ARTS PATHS AND CHOICES

9th Grade	10th Grade	11th Grade	12th Grade
(110) ENGLISH 1 HONORS	(120) ENGLISH 2 HONORS	(139) AP ENG: LANG & COMP	(140) AP ENG: LIT & COMP
(111) ENGLISH 1 GHP	(121) ENGLISH 2 GHP	(131) ENGLISH 3 GHP	(141) ENGLISH 4 GHP
(112) ENGLISH 1 CP	(122) ENGLISH 2 CP	(132) ENGLISH 3 CP	(142) ENGLISH 4 CP
(116) ENGLISH 1 CEW* or (117) ENGLISH 1 SEMINAR**	(126) ENGLISH 2 CEW* or (127) ENGLISH 2 SEMINAR***	OR ↑  (136) ENGLISH 3 CEW*	OR ↑  (146) ENGLISH 4 CEW*

\*Students selecting this course must be enrolled in a career training program at LCTI.

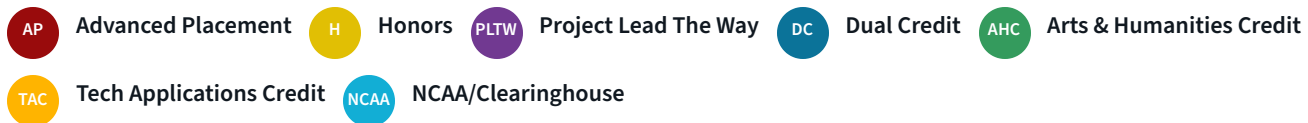
\*\*Students selecting this course must select AMERICAN STUDIES 1 SEMINAR for a social studies course.

\*\*\*Students selecting this course must select AMERICAN STUDIES 2 SEMINAR for a social studies course.

### PLEASE NOTE:

- 1 Four years of high school ENGLISH and a minimum of four credits are required for graduation.
- 2 NCAA Clearinghouse Division 1 eligibility requires four English courses between 9th and 12th grades. Only courses marked with an asterisk (\*) are approved by the NCAA Clearinghouse.
- 3 Students may change paths. Please consult with your guidance counselor.
- 4 Courses listed are based on curriculum and student projections. Actual course offerings are based on actual student requests.
- 5 This listing is based on the best information available at this time. It is not a guarantee of courses to be offered.
- 6 Course enrollment should be made on the basis of parent and student interest after evaluation of the individual academic abilities

## THE 100 COURSES: ENGLISH



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### 110 | ENGLISH 1 HONORS 2 Semesters | 1 Credit | Grade 9

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Recommended Prerequisites: Based on standardized test results, previous performance, teacher evaluation, interest in and enthusiasm about the subject. The 9th grade Honors English course focuses on literature and expository composition development based on literature, research skills, the grammar continuum, and SAT vocabulary study skills. To improve and refine higher critical thinking skills, students will read and discuss American literature through 1900. This course is designed to prepare students for both participation in the English Honors program and eventually the Advanced Placement class. Independent reading assignments are part of the course requirements. Upon entering the English 1 Honors course, students should demonstrate exceptional skill in independent reading, writing, and study skills. Students should expect to master learning at an accelerated pace as well as produce additional projects and papers above and beyond that of the GHP level. Students will be expected to assume more responsibility for more independent learning and decision-making. In addition, students are expected to engage actively in classroom discussions and other means of oral presentation. Final grade of “B” assures placement in the next course. Grade weighted upon successful completion of course.

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### 111 | ENGLISH 1 GHP 2 Semesters | 1 Credit | Grade 9

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The 9th grade Gifted/High Potential English program is designed to be more challenging than the College Preparatory program. The Gifted/High Potential program uses the College Preparatory program as a foundation; however, the Gifted/High Potential program differs in content, resources, processes, activities, and products of the course. The Gifted/High Potential program focuses upon analysis, synthesis, and evaluation of content material. An increased rate of mastery of learning as well as additional amounts of work will be expected. Students will also be expected to assume more responsibility for more independent learning and decision-making. In addition, students are expected to engage in classroom discussions and other methods of oral presentation.

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### 112 | ENGLISH 1 CP 2 Semesters | 1 Credit | Grade 9

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This course is centered on the study of literature, composition, grammar, and SAT vocabulary development skills. In order to develop an appreciation and understanding of the various types of American literature through 1900, this course will critique and analyze a range of genres, including short stories, novels, mythology, poetry, drama, and nonfiction. The content of the course is aligned to the PA Core Standards for English Language Arts. Composition focuses on the Keystone Literature constructed responses as well as the informative, persuasive, and narrative modes of writing.

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**116 | ENGLISH 1 CEW****2 Semesters | 1 Credit | Grade 9**

NOTE: Students who select this course must also be enrolled in the Lehigh Career & Technical Institute (LCTI). This course will combine traditional academic education with a concentration on career preparation. It will provide an opportunity for academic growth, specifically in the areas of reading comprehension, critiques, and analysis of common literary terms. In composition, the focus is on effective communication through various formats. Vocabulary and grammar are incorporated through the context of reading, writing, and career readiness terminology. At the same time, this course will also require students to explore and evaluate their potential career pathways as well as develop 21st century career readiness skills through daily class activities, self-assessment tools and career exploration opportunities integrated into the curriculum. If a student withdraws from LCTI, that student will also be withdrawn from this course and required to enroll in course English 1 Seminar (117) or English 1 CP (ss2).

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**117 | ENGLISH 1 SEMINAR****2 Semesters | 1 Credit | Grade 9**

Through studies in literature and composition, English 1 Seminar emphasizes both career and college preparatory standards. The literature component of the course emphasizes reading comprehension, vocabulary development, literary critiques, and literary terminology. The composition component of the course focuses on grammar and effective communication through constructed responses, resumes, letters, discussion boards, and emails. Through a series of presentations and career exploration activities, this course also exposes students to the career opportunities available at Lehigh Career and Technical Institute (LCTI). These opportunities engage students in analyses of their strengths, needs, and desires to make educated and realistic decisions about college and/or career choices. At the conclusion of this course, students will decide to enroll in English 2 Seminar paired with American Studies 2 Seminar, pursue a college preparatory pathway, or pursue a career-based (CEW) pathway. Students who select this course should also select American Studies I Seminar (217) as their history course.

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**120 | ENGLISH 2 HONORS****2 Semesters | 1 Credit | Grade 10**

Prerequisite: English 1 Honors teacher recommendation. This in-depth course is a survey of American literature since 1900 and a study of literary form and style with a major emphasis placed on expository writing and vocabulary study. Participation in this course opens the way for the student to enter AP English: Lang. & Comp. and eventually into the twelfth-grade AP English: Lit. & Comp. Twelve writing assignments are part of the course requirements. A research paper is required in this course. The course has a summer reading requirement. Final grade of “B” or better provides automatic placement in the next course in the series. Grade weighted upon successful completion of course.

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**121 | ENGLISH 2 GHP****2 Semesters | 1 Credit | Grade 10**

Prerequisite: English 1 GHP teacher recommendation. The content of this course is the same as that of the CP English course; however, activities and resources that require higher level thinking skills and some differentiated content are used to challenge the capabilities of these students. A research paper is required in this course. Final grade of “C” or better provides automatic placement in next course in the series.



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**122 | ENGLISH 2 CP****2 Semesters | 1 Credit | Grade 10**

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Recommended Prerequisite: English 1 CP. The tenth-grade English program centers on literature, composition, grammar, speech, and vocabulary. In order to develop an appreciation and understanding of the various types of literature, the course focuses on American literature since 1900. Literature is the basis for composition. The program also reviews basic grammar, requires a speech, and presents vocabulary through a workbook series. A research paper is required in this course.

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**126 | ENGLISH 2 CEW****2 Semesters | 1 Credit | Grade 10**

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NOTE: Students who select this course must also be enrolled in the Lehigh Career & Technical Institute (LCTI). This course will combine traditional academic education with a concentration on career preparation. It will provide an opportunity for academic growth, specifically in the areas of reading comprehension, critiques, and analysis of common literary terms. In composition, the focus is on effective communication through various formats. Vocabulary and grammar are incorporated through the context of reading, writing, and career readiness terminology. At the same time, this course will also require students to explore and evaluate their potential career pathways as well as develop 21st century career readiness skills through daily class activities, self-assessment tools and career exploration opportunities integrated into the curriculum. If a student withdraws from LCTI, that student will also be withdrawn from this course and required to enroll in course English 2 Seminar (127) or English 2 CP (122).

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**127 | ENGLISH 2 SEMINAR****2 Semesters | 1 Credit | Grade 10**

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This course follows an integrated format that aligns American Studies and English topics in a team-taught classroom environment as they prepare for post-secondary study, work, and life in the 21st Century. Both career and college preparatory standards will be emphasized. The English component of this class will provide an opportunity for academic growth, specifically in the areas of reading comprehension, critiques, and analysis of common literary terms. In composition, the focus is on effective communication through various formats. Vocabulary and grammar are incorporated through the context of reading, writing, and career readiness terminology. The final purpose of this course is to expose students to the career opportunities available through Lehigh Career and Technical Institute (LCTI) through a series of presentations and career exploration activities. It will prompt students to analyze their own strengths, weaknesses, and desires to aid them make educated and realistic decisions about college and/or career choices. At the conclusion of this course, students will decide to pursue a college preparatory academic path in preparation for post-secondary education or to enroll at LCTI to pursue a career pathway (CEW) through one of their technical and vocational programs. Students who select this course should also select American History II Seminar (227) as their history course.

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**139 | AP ENGLISH: LANGUAGE & COMPOSITION****2 Semesters | 1 Credit | Grade 11**

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Prerequisite: English 2 Honors teacher recommendation. Students who enroll in AP English: Language & Composition must be eager to learn about the complexities of the English language. While students will examine some major works of fiction including novels, dramas, and poetry, this college-level course focuses more on nonfiction texts and the rhetorical techniques used by writers. It is a skills-based course that trains students to become critical readers and to become proficient writers of expository, analytical, and argumentative essays. Note that this course is designed to prepare students for the AP exam in May and is intended to be a substitute for college freshman English. The class also includes components of SAT preparation and development. The course has a summer reading requirement. Final grade of B or better provides automatic placement in the next course in the series. Grade weighted upon successful completion of course.

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**131 | ENGLISH 3 GHP****2 Semesters | 1 Credit | Grade 11**

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Prerequisite: English 2 GHP teacher recommendation. The content of this course is the same as that of the CP English course. However, activities and resources that require higher level thinking skills and some differentiated content are used to challenge the capabilities of these students. Final grade of “C” or better provides automatic placement in next course in the series.

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**132 | ENGLISH 3 CP****2 Semesters | 1 Credit | Grade 11**

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Recommended Prerequisite: English 2 CP. This is a survey of British and World literature for college preparatory students. A major emphasis is placed on theme writing, and this emphasis is supplemented with a term paper. The purpose of this course is to teach students to express themselves clearly and logically both in class discussion and in written assignments. The course includes a systematic study of vocabulary and stresses a review of grammar fundamentals in areas where weaknesses are most apparent in relation to written work. The student must complete a research paper on a contemporary issue or a topic related to British literature.

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**136 | ENGLISH 3 CEW****2 Semesters | 1 Credit | Grade 11**

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NOTE: Students who select this course must also be enrolled in the Lehigh Career & Technical Institute (LCTI). The teaching of English on this level must be as personalized as possible because of the varied interest levels of the students and the wide range of their abilities. Because of these varied levels, reading for understanding and information will be stressed. This course will combine traditional academic education with a concentration on career preparation, focusing closely on writing effectiveness, reading comprehension, and connecting course content to the work world in such concepts of teamwork, reliability, leadership, and responsibility. Vocabulary and real-world skills are incorporated through the contexts of reading, writing, and career readiness terminology. At the same time, this course will also require students to explore and evaluate their potential career pathways as well as develop 21st century career readiness skills through daily class activities, self-assessment tools and career exploration opportunities integrated into the curriculum, mainly via Xello and fiction and non-fiction reading content. If a student withdraws from LCTI, that student will also be withdrawn from this course and required to enroll in course English 3 CP (132).

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**140 | AP ENGLISH: LITERATURE & COMPOSITION****2 Semesters | 1 Credit | Grade 12**

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Prerequisites: Successful completion of AP English: Language & Composition and teacher recommendation. This course will analyze literature from the point of view of the writer as well as the reader to determine how literature affects its readers and in what ways. Students will “measure” literature against the history of philosophy to understand how literature fits into its own time as well as in all time. Students will ask, “What is art?” and try to determine the qualities of great literature literary analysis students will examine style, structure, diction, imagery, use of detail, language and syntax. Utilizing vocabulary study to write about literature is an important component of the course. The course has a summer reading requirement. Grade weighted upon successful completion of course.

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**141 | ENGLISH 4 GHP****2 Semesters | 1 Credit | Grade 12**

Prerequisite: English 3 GHP teacher recommendation. The content of this course is the same as that of the C.P. English course. However, activities and resources that require higher level thinking skills and some differentiated content are used to challenge the capabilities of these students.

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**142 | ENGLISH 4 CP****2 Semesters | 1 Credit | Grade 12**

Prerequisite: English 3. The focus of this course is a survey of modern World Literature with emphasis placed on literary analysis and personal reflection. Students will continue to develop their skills in reading, vocabulary, writing, research and disc and discussion.

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**146 | ENGLISH 4 CEW****2 Semesters | 1 Credit | Grade 12**

NOTE: Students who select this course must also be enrolled in the Lehigh Career & Technical Institute (LCTI). The content in this course is structured on career preparation focusing on comprehension and communication skills. Professionalism, teamwork, reliability, leadership, and responsibility are stressed in all aspects of the course. A professional portfolio is finalized in this course to prepare for employment and/or technical school. This course will combine traditional academic education with a concentration on career readiness. Course units focus on vocabulary development, reading comprehension (fictional and non-fictional texts), writing effectiveness, and verbal communication skills. If a student withdraws from LCTI, that student will also be withdrawn from this course and required to enroll in course English 4 CP (142)

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**174 | GREEK AND ROMAN MYTHOLOGY****1 Semester | 0.5 Credit | Grades 9,10**

The purpose of the course is to acquaint the student with a basic understanding of Greek and Roman mythology. The focus will be on reading the myths and legends themselves, as related by ancient authors and/or summarized by the course text. A variety of motifs will be identified.

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**176 | SPORTS IN LITERATURE****1 Semester | 0.5 Credit | Grades 10,11,12**

The course brings a new category of American Literature to life through the dramatic and personal aspects of sports. It includes a variety of genres for anyone interested in sports, including novels, stories, essays, poetry, and biographies. Students will understand that sports are not just contests, but a metaphor for the human experience.

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**151 | PAR KEY/YEARBOOK****2 Semesters | 1 Credit | Grades 9,10,11,12**

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Recommended Prerequisites: Interest in yearbook activities. Highly motivated students who have sophisticated writing skills are encouraged to sign up for Par Key. In addition to writing, students will learn yearbook design and online yearbook production, Photoshop. The course provides the staff with in-school time to work; however, students will be required to meet before or after school as necessary to meet production deadlines and cover Parkland High School events. Seniors may take this course only if they have been on the yearbook staff previously.

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**152 | TRUMPET/NEWSPAPER****2 Semesters | 1 Credit | Grades 9,10,11,12**

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Recommended Prerequisite: Journalism elective with English teacher recommendation and writing sample. This class will cover the reporting, writing, business, and computerized production skills necessary to publish the school newspaper. The staff will meet every day and contribute after school as necessary during deadline weeks. Seniors who have been members of the Trumpet staff previously may take the course only with the permission of the advisor.

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**154 | PUBLIC SPEAKING****1 Semester | 0.5 Credit | Grades 9,10,11,12**

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This course is designed for those who want to improve their public speaking skills and to become more effective communicators. Students will present a series of informal and formal speeches utilizing the various modes of speech. The activities are designed for students to acquire competence in two-person, small group, and public situations.

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**156 | THEATRE ARTS 1: INTRO TO THEATRE****1 Semester | 0.5 Credit | Grades 9,10,11,12**

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This course is designed as an introduction to the fundamentals of theatre, including the history of theatre, the language of theatre and basic stage direction. The course focuses on multiple performance styles including pantomime and improvisation, dramatic structure, individual and group performances.

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**157 | THEATRE ARTS 2A: SURVEY OF MUSICAL THEATRE****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Satisfactory completion of Theatre Arts 1 or equivalent in experience and departmental recommendation. This is an introductory course in musical theatre that focuses on production, performance, musical theatre literature and history. Students will examine the history and evolution of the Broadway musical, one of America's great indigenous art forms. Students will also compare and evaluate a variety of musicals from the nineteenth century to present day including: Vaudeville, Operetta, Musical Comedy, Opera on Broadway, and Rock Opera. Major figures discussed will include composers, lyricists, producers, directors, choreographers, performers, and conductors. This course also focuses on developing singing/acting/movement skills in a variety of musical theatre performing styles. Note that students can elect to take Theatre Arts 2A or 2B or both in one school year if their schedule permits. Only one course, 2A or 2B, is needed to advance to Theatre Arts 3.

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**155 | THEATRE ARTS 2B: INTRODUCTION TO ACTING**

AHC

1 Semester | 0.5 Credit | Grades 10,11,12

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Prerequisite: Satisfactory completion of Theatre Arts 1 or equivalent in experience and departmental recommendation. This course is designed to provide further studies to the fundamentals of acting. Students will learn various styles, techniques, and approaches to acting as well as script analysis. Areas of study include improvisation, voice and diction, oral interpretation, scene and monologue work. This class is designed for those students who have a strong love and interest in theatre.

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**158 | THEATRE ARTS 3: ADVANCED THEATRE ARTS**

AHC

2 Semesters | 1 Credit | Grades 11,12

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Prerequisite: Satisfactory completion of Theatre Arts 2A and/or 2B. Students will enhance their performance skills as well as increase their knowledge of the world and history of the theatre. The course examines periods and styles of drama, and cultivates this research into a living work of art. Other areas of study include modern dramas, directing, producing, costuming, mask work, and advanced monologue and scene work.

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**159 | THEATRE ARTS 4: ACTING STUDIO AND WORKSHOP**

AHC

2 Semesters | 1 Credit | Grade 12

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Prerequisite: Satisfactory completion of Theatre Arts 3. This course is designed for students who wish to investigate possible career options and/or post-secondary study in the performing arts, including all areas of acting, producing, marketing, advertising, casting, development, and administration. Through individual meetings, we will best determine each individual's academic and artistic goals. Students will work on quarterly and yearlong projects. The group will explore individual and ensemble devised works.

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**180 | TECHNICAL THEATRE**

AHC

1 Semester | 0.5 Credit | Grades 9,10,11,12

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The course will explore all design and construction aspects of the modern theatre. It will integrate the technical components of theatre with the artistic, including scenic design, style and composition, lighting and sound. Students will be assessed using traditional quizzes, tests and essays, along with production projects. A highly interactive, engaging course, class participation and teamwork are mandatory.

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**167 | CREATIVE WRITING 1**

AHC

1 Semester | 0.5 Credit | Grades 9,10,11,12

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Creative Writing offers students opportunities to express themselves in a creative and original manner. During the semester the class examines representative works by various authors of different genres. After studying components of each genre, students, through a sequence of pre-writing, drafting, revising, and peer-editing, produce their own poems, essays, a short story, and a children's book.

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**168 | CREATIVE WRITING 2****1 Semester | 0.5 Credit | Grades 10,11,12**

Prerequisite: Creative Writing 1

Creative Writing 2 is an advanced course for students who have completed Creative Writing 1 and wish to further develop their writing abilities.

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**161 | JOURNALISM****1 Semester | 0.5 Credit | Grades 9,10,11,12**

This elective emphasizes interviewing, reporting, and writing for publication. It also focuses on newspaper and magazine production skills. After introductory training in journalistic writing style, students will write news stories, features, sports stories, and editorials. Each student will attempt to have at least one article printed in the school newspaper, yearbook, or in another publication.

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**162 | INTRO TO MASS COMMUNICATION****1 Semester | 0.5 Credit | Grades 9,10,11,12**

From the basic concepts of broadcast TV, video, and film production, to the science behind effective communication skills, this class gets students started in the world of communication. This hybrid, hands-on theory course allows students to develop the interpersonal communication skills needed in today's corporate world as well as to gain invaluable technical skills using their own devices and basic studio equipment.

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**163 | VIDEO IN THE DIGITAL AGE****1 Semester | 0.5 Credit | Grades 9,10,11,12**

Prerequisite: Introduction to Mass Communication. This course explores the creative development of video concepts and introduces students to basic production techniques as they relate to the development of video geared for the internet, streaming services and television distribution. This course is production-oriented, implementing the knowledge and skills learned from Intro to Mass Communication. Students will be taught camera skills, production structure, and editing techniques to produce projects in a collaborative environment.

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**164 | PRODUCING AND DIRECTING FILM AND VIDEO****1 Semester | 0.5 Credit | Grades 10,11,12**

Prerequisites: Introduction to Mass Communication (formerly Broadcasting I) or the equivalent in experience as evidenced by evaluation of a demo reel and/or demonstration of practical knowledge of film/video technique and equipment. From basic cinematography, to set lighting, lens choices, camera choices, and so many other cinematic concepts, Producing and Directing Film and Video serves as an introductory level film school course. Students will study action, thrillers, epics, and dramas by watching and reacting to the content of films and by examining the theories and intentions of the directors. Using these foundational skills, students will then become members of film and video crews where they will write, direct, and produce original short films. They will also experience filming from other perspectives, including acting, creating sets, and organizing props for production. Students looking to enroll in this course should be comfortable with computer and video technology and should also have a strong foundation in writing. By taking this course, students will have the opportunity to submit works into local and regional film festivals where they compete for various recognitions.

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**165 | PARKLAND MORNING NEWS****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisite: Successful completion of one of the following courses: Intro. to Mass Communication (162), Video in the Digital Age (163), Producing and Directing Film and Video (164), or at the discretion of the instructor with a video demo reel. Admission to class by invitation only. This course is designed for those motivated students who wish to pursue college level independent broadcasting study. It emphasizes the basic skills of reporting, camera work, scriptwriting, and editing under the time restrictions of a daily news program. Students are expected to put in substantial time during and after class. Students selected for this class must have extensive knowledge of computers, audio/video equipment, and lighting and sound techniques. This class meets during “0” period before school. Students must provide their own transportation to school.

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**160 | PARKLAND MIDDAY NEWS****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisite: Successful completion of one of the following courses: Intro. to Mass Communication (162), Video in the Digital Age (163), Producing and Directing Film and Video (164), or at the discretion of the instructor with a video demo reel. Admission to class by invitation only. This course is a student-run program which requires students to plan, write, and produce the afternoon announcements. All students will be required to operate all of the equipment in the television studio. This includes, but is not limited to, studio cameras, switcher, audio mixer, teleprompter, video router, and lights. Students will have 44 minutes to create a performance that is aired over the closed-circuit system at PHS.

# SOCIAL STUDIES

## 2025 – 2026 PROJECTED SOCIAL STUDIES PATHS AND CHOICES & COURSE NUMBERS

9th Grade	10th Grade	11th Grade	12th Grade
(210) AMERICAN STUDIES 1 HONORS	(220) AMERICAN STUDIES 2 HONORS or (224) AP US HISTORY	(234) AP WORLD HISTORY (Full Year)	(240) ECONOMICS AP (Full Year) and either (270) US GOVT & POLITICS AP (Full Year) or (274) COMP. GOVT. & POL. AP (Full Year)
(211) AMERICAN STUDIES 1 GHP	(221) AMERICAN STUDIES 2 GHP	(231) WORLD STUDIES GHP	(241) GHP ECONOMICS (Semester) and (271) AMERICAN GOVERNMENT GHP (Semester)
(212) AMERICAN STUDIES 1 CP	(222) AMERICAN STUDIES 2 CP	(232) WORLD STUDIES CP	(242) ECONOMICS CP (Semester) and (272) AMERICAN GOVERNMENT CP (Semester)
(216) AMERICAN STUDIES 1 CEW* or (217) AMERICAN STUDIES 1 SEMINAR**	(226) AMERICAN STUDIES 2 CEW* or (227) AMERICAN STUDIES 2 SEMINAR ***	OR ↑  (236) WORLD STUDIES CEW*	OR ↑  (276) AMERICAN GOVERNMENT CEW* (Semester) and (246) ECONOMICS CEW* (Semester)

\*Students selecting this course must be enrolled in a career training program at LCTI. However, please note that LCTI students may enroll in CP or higher-level courses if interested, eligible, and if it works in their schedule.

\*\*Students selecting this course must select ENGLISH 1 SEMINAR for a social studies course.

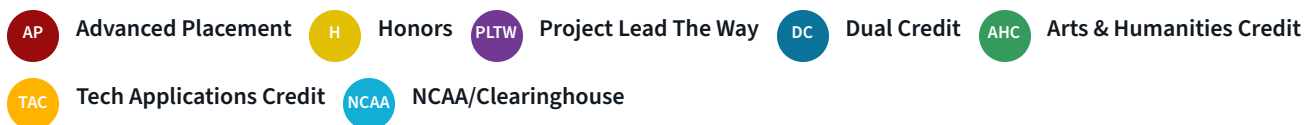


\*\*\*Students selecting this course must select ENGLISH 2 SEMINAR for a social studies course.

## PLEASE NOTE

- 1 Four credits of high school SOCIAL STUDIES are required for graduation. In addition, all students MUST take one course in Government AND one in Economics to fulfill graduation requirements.
- 2 NCAA Clearinghouse Division I eligibility requires social studies courses between 9th and 12th grades. Only courses marked with an asterisk (\*) are approved by the NCAA Clearinghouse.
- 3 Students may change paths. Please consult with your guidance counselor.
- 4 Courses listed are based on curriculum and student projections. Actual course offerings are based on actual student requests.
- 5 This listing is based on the best information available at this time. It is not a guarantee of courses to be offered.
- 6 Course selection should be made on the basis of parent and student interest after evaluation of one's academic abilities.

## THE 200 COURSES: SOCIAL STUDIES



### 210 | **AMERICAN STUDIES 1 HONORS** 2 Semesters | 1 Credit | Grade 9

Recommended Prerequisites: Based on standardized test results, previous performance, teacher evaluation, interest in and enthusiasm about the subject. This course is a study of American history from the Age of Exploration through the end of the 19th century. In addition to the GHP curriculum requirements, the Honors American Studies Program will emphasize development of inductive and deductive reasoning, reading and evaluating primary source material and a comparative analysis of historical novels. Students will read at least 2 historical novels. Students will also be required to write a 6-8-page research paper. Note that this course has a summer reading and writing requirement. Grade weighted upon successful completion of course. Final grade of "B" assures placement in the next course.

### 211 | **AMERICAN STUDIES 1 GHP** 2 Semesters | 1 Credit | Grade 9

This course is a study of American history from the Age of Exploration to the end of the 19th century. The Gifted/High Potential level includes the political, economic, geographical, and institutional viewpoints of historical events. This course has been designed for students who have a strong interest in history and have demonstrated outstanding achievement. Students will be required to demonstrate higher levels of thinking. This may be achieved through the use of historical simulations, classroom debates, the reading of two historical novels, and the reading of literature from the time period in American history. A greater emphasis will be placed on the requirement for these students to express themselves through writing and classroom discussions relating to the topics being studied. A 3-5-page research paper is also required.

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**212 | AMERICAN STUDIES 1 CP****2 Semesters | 1 Credit | Grade 9**

This course is a study of American history from the Age of Exploration to the end of the 19th century. The college preparatory course includes the political, economic, geographical, and institutional viewpoints of historical events. There is an effort to relate past events to current trends in America, and to enable the student to understand how current trends and reoccurring problems have developed throughout America`s history.

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**216 | AMERICAN STUDIES 1 CEW****2 Semesters | 1 Credit | Grade 9**

NOTE: Students who select this course must also be enrolled in the Lehigh Career & Technical Institute (LCTI). This course will combine traditional academic education with a concentration on career preparation. The academic focus is a study of America history from the Age of Exploration to the end of the 19th Century that allows students to survey this period of American history in an attempt for them to gain a better understanding of the story of our nation. At the same time, this course will also require students to explore and evaluate their potential career pathways as well as develop 21st century career readiness skills through daily class activities, self-assessment tools and career exploration opportunities integrated into the curriculum. If a student withdraws from LCTI, that student will also be withdrawn from this course and required to enroll in course American Studies 1 Seminar (217) or American Studies 1 CP (212).

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**217 | AMERICAN STUDIES 1 SEMINAR****2 Semesters | 1 Credit | Grade 9**

This course follows an integrated format that aligns American Studies and English topics in a team-taught classroom environment as they prepare for post-secondary study, work, and life in the 21st Century. Both career and college preparatory standards will be emphasized. The American Studies component is a study of American history from the Age of Exploration to the end of the 19th Century that allows students to survey this period of American history in an attempt for them to gain a better understanding of the story of our nation. Both historical texts and literature will be integrated to achieve these goals. The final purpose of this course is to expose students to the career opportunities available through Lehigh Career and Technical Institute (LCTI) through a series of presentations and career exploration activities. It will prompt students to analyze their own strengths, weaknesses, and desires to aid them make educated and realistic decisions about college and/or career choices. At the conclusion of this course, students will make a decision to pursue a college preparatory academic path in preparation for post-secondary education or to enroll at LCTI to pursue a career pathway through one of their technical and vocational programs. Students who select this course should also select English 1 Seminar (117) as their English course.

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**224 | UNITED STATES HISTORY AP****2 Semesters | 1 Credit | Grades 10,11,12**

Recommended Prerequisite: Honors American Studies 1. This course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials of US history. 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 learn to assess historical material, their relevance to a given interpretive problem, their reliability, and their importance, and to weigh the evidence and interpretations presented in historical scholarship. Students can expect to participate fully in classroom discussions, written assignments, projects and research. The course has a summer reading requirement. Grade weighted upon successful completion of course.

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**220 | AMERICAN STUDIES 2 HONORS****2 Semesters | 1 Credit | Grade 10**

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Recommended Prerequisites: Honors or GHP American Studies 1 teacher recommendation. This course, the second of a two-year sequence, focuses on 20th-century and recent American history. It will be built on the skills introduced in Honors American Studies 1 as well as emphasize an analytical approach to history. Students will be expected to investigate issues in history, write and argue from a point of view, work extensively with primary sources as well as produce individual research projects. The course has a summer reading and writing requirement. Grade weighted upon successful completion of course. Final grade of “B” assures placement in the next course.

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**221 | AMERICAN STUDIES 2 GHP****2 Semesters | 1 Credit | Grade 10**

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Prerequisites: Invitation to gifted students; high potential student invitation based on standardized and previous performance, teacher evaluation, interest in and enthusiasm about the subject. The content of this course is the same as that of the CP American Studies 2 course. However, activities and resources that require higher level thinking skills and some differentiated content are used to challenge the capabilities of these students. Final grade of “B” or better provides automatic placement in the next course in the series.

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**222 | AMERICAN STUDIES 2 CP****2 Semesters | 1 Credit | Grade 10**

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Recommended Prerequisites: CP American Studies 1. This course, the second of a two-year American Studies sequence, begins with the 20th century America and proceeds to the present day. Students study the nation’s transformation into an industrial power and the impact of this change on the social, cultural, economic and political development of the country. The course also traces the foreign policy of the United States from isolationism to internationalism. Also, LCTI students who select this CP course should know that it will primarily run in an online format as facilitated by a Parkland High School social studies teacher. However, individual, small group, and/or whole group instruction will be available to students throughout the course as well.

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**226 | AMERICAN STUDIES 2 CEW****2 Semesters | 1 Credit | Grade 10**

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NOTE: Students who select this course must also be enrolled in the Lehigh Career & Technical Institute (LCTI). This course will combine traditional academic education with a concentration on career preparation. The academic focus covers the historic period between 1877 and the present and allows students to survey this period of American history in an attempt for them to gain a better understanding of the story of our nation. At the same time, this course will also require students to explore and evaluate their potential career pathways as well as develop 21st century career readiness skills through daily class activities, self-assessment tools and career exploration opportunities integrated into the curriculum. In addition, the course will run primarily in an online format as facilitated by a Parkland High School social studies teacher. However, individual, small group, and/or whole group instruction will be available to students throughout the course as well. If a student withdraws from LCTI, that student will also be withdrawn from this course and required to enroll in course American Studies 2 Seminar (227) or American Studies 2 CP (222).

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**227 | AMERICAN STUDIES 2 SEMINAR****2 Semesters | 1 Credit | Grade 10**

This course follows an integrated format that aligns American Studies and English topics in a team-taught classroom environment as they prepare for post-secondary study, work, and life in the 21st Century. Both career and college preparatory standards will be emphasized. The American Studies component of this course covers the historic period between 1877 and the present and allows students to survey this period of American history in an attempt for them to gain a better understanding of the story of our nation. Both historical texts and literature will be integrated to achieve these goals. The final purpose of this course is to expose students to the career opportunities available through Lehigh Career and Technical Institute (LCTI) through a series of presentations and career exploration activities. It will prompt students to analyze their own strengths, weaknesses, and desires to aid them make educated and realistic decisions about college and/or career choices. At the conclusion of this course, students will make a decision to pursue a college preparatory academic path in preparation for post-secondary education or to enroll at LCTI to pursue a career pathway through one of their technical and vocational programs. Students who select this course should also select English 2 Seminar (127) as their English course.

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**234 | WORLD HISTORY AP****2 Semesters | 1 Credit | Grades 11,12**

Recommended Prerequisite: Tenth grade Honors, AP or GHP American Studies teacher recommendation. World History AP emphasizes non-western history from 1200 C. E. to the present, relying on college-level texts, primary and secondary sources, analytical and writing skills. Political, social, economic, and religious developments will be covered. Attention will be given to prepare students for the World History AP exam. The course has a summer reading requirement. Grade weighted upon successful completion of course. Also, an online section of World History AP is available. However, this is only for students who are unable to schedule this course during the school day. Requests to move from the face-to-face class to the online class will not be approved after the deadline for submitting schedule changes for the following school year. Students must speak to their guidance counselor about this.

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**231 | WORLD STUDIES GHP****2 Semesters | 1 Credit | Grade 11**

Prerequisites: Honors or GHP American Studies 2 teacher recommendation.

This course focuses on the people and events that have shaped the modern world. The course begins with ancient civilizations and concludes with an analysis of contemporary issues dealing with war and peace, human rights, world health issues, and terrorism. World Studies traces how people, throughout the ages, have shared and blended ideas from other cultures. Students will analyze key concepts, primary sources, art, architecture, and the expansion of technological developments that have improved the quality of life for millions of people.

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**232 | WORLD STUDIES CP****2 Semesters | 1 Credit | Grade 11**

Recommended Prerequisite: American Studies 2. This course explores the significant events and people that make up world history: the story of the human community. It begins in the 1300's and connects to life today by examining the culture, common ideas, beliefs and behavior patterns of societies. The course includes the study of politics, economics, geography, and the impact of science and technology on the environment and social life.

NOTE: Students who select this course must also be enrolled in the Lehigh Career & Technical Institute (LCTI). This course will combine traditional academic education with a concentration on career preparation. Selected world cultures are explored. The emphasis is on the cultures as they are today, but the present is informed by a study of history. The cultural areas studied feature emphasis on cultural life of the people, the current political organization, the economic institutions of the cultural areas, and the cultural areas viewed from the perspective of the late 20th century world politics. The course will also require students to explore and evaluate their potential career pathways as well as develop 21st century career readiness skills through daily class activities, self-assessment tools and career exploration opportunities integrated into the curriculum. Students who select this course must be enrolled in Lehigh Career & Technical Institute. If a student withdraws from LCTI, they will also be withdrawn from this course and required to enroll in course World Studies CP (232).



Recommended Prerequisite: Teacher recommendation. AP Economics is a yearlong study of Micro and Macro Economics. The study begins with the production possibilities open to any society. Next, price theory is developed, using traditional supply and demand models. The several market models are studied in some detail: perfect competition, oligopoly, monopoly, monopolistic competition. The market for labor is explored, as is the economics of the environment. The Macro portion of the course begins with national income measurement, the gross national product. Standard growth models are studied to explore the performance of the economy. Monetary policy and fiscal policy are studied, with an attempt at a modern synthesis of the two. The economic concerns of inflation and employment receive attention. Finally, problems of international trade and payments are studied. The course has a summer reading requirement. Grade weighted upon successful completion of course. A Government course must be taken in addition to this course. Also, an online section of Economics AP is available. However, this is only for students who are unable to schedule this course during the school day. Requests to move from the face-to-face class to the online class will not be approved after the deadline for submitting schedule changes for the following school year. Students must speak to their guidance counselor about this.



The content of this course is the same as Economics CP; however, activities and resources that require higher level thinking skills and some differentiated content are used to challenge the capabilities of these students. The course broadly covers concepts of both micro and macroeconomics. Microeconomic topics include scarcity, and the political, economic, and social choices that are required to allocate resources. The concepts of demand and supply are investigated as they relate to prices. Market structures are defined as a company's place in the market is analyzed. Macroeconomic topics include the formulation of data such as GDP and CPI, and their relation to economic growth and price inflation. We examine the appropriate level of government involvement in the economy. The globalization of our economy is threaded into discussions throughout the course. Personal economics and budgeting are also addressed.

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**242 | ECONOMICS CP****1 Semester | 0.5 Credit | Grade 12**

This course broadly covers concepts of both micro and macroeconomics. Microeconomic topics include the study of scarcity and the political, economic, and social choices that are required to allocate resources. The concepts of demand and supply are investigated as they relate to prices. Market structures are defined and a company's place in the market is analyzed. Macroeconomic topics include the formulation of data such as GDP and CPI, and their relation to economic growth and price inflation. We examine the appropriate level of government involvement in the economy. The globalization of our economy is threaded into discussions throughout the course. Personal economics and budgeting are also addressed.

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**246 | ECONOMICS CEW****1 Semester | 0.5 Credit | Grade 12**

NOTE: Students who select this course must also be enrolled in the Lehigh Career & Technical Institute (LCTI). Economics CEW explores the subject of economics from the practical perspective of the student as a consumer and producer. Specific topics include consumer and career decision-making, taxes, personal saving, investing and budgeting, and the consequences of living and working in a global economy. Assessments will consist of problem-solving projects that simulate real-world consumer and labor issues. Students who select this course must be enrolled in Lehigh Career & Technical Institute. If a student withdraws from LCTI, they will also be withdrawn from this course and required to enroll in course Economics CP (242).

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**274 | COMPARATIVE GOVERNMENT AND POLITICS AP****2 Semesters | 1 Credit | Grades 11,12**

Prerequisite: Teacher Recommendation. Through work in a college level text and regular consideration of current media, this course exposes students to the current political systems in six core countries – Britain, China, Iran, Mexico, Nigeria, and Russia- and, provides the content for conceptual and thematic analysis. Students will consider the history of these nations as well as culture, social divisions, and formal structures of government. The course places emphasis on themes such as globalization, democratization, political change, public policy, and citizen-state relations. This course satisfies the Government requirement for graduation. The student must schedule an Economics course to complete the Social Studies requirement for graduation. Grade weighted upon successful completion of course. If taking this as senior year Government course, an Economics course must be taken in addition to this course. Also, an online section of Comparative Government and Politics AP is available. However, this is only for students who are unable to schedule this course during the school day. Requests to move from the face-to-face class to the online class will not be approved after the deadline for submitting schedule changes for the following school year. Students must speak to their guidance counselor about this.

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**270 | UNITED STATES GOVERNMENT AND POLITICS AP****2 Semesters | 1 Credit | Grades 11,12**

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Recommended Prerequisite: Teacher recommendation. This course is designed to give students an analytical perspective on government and politics in the United States. It involves the study of democratic ideas and the balance of power and tensions between the practical and ideal in national policy making. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Using current events, students will analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens. This course satisfies the government requirement for graduation. This course has a summer reading requirement. Grade weighted upon successful completion of course. An Economics course must be taken in addition to this course.

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**271 | AMERICAN GOVERNMENT GHP****1 Semester | 0.5 Credit | Grade 12**

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Prerequisites: GHP World Studies teacher recommendation. The content of this course is the same as that of the CP Government courses. However, activities and resources that require higher level thinking skills and some differentiated content are used to challenge the capabilities of these students.

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**272 | AMERICAN GOVERNMENT CP****1 Semester | 0.5 Credit | Grade 12**

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Prerequisites: American Studies 2; Eleventh-grade Social Studies. American National Government is based on a beginning analysis of the Federal Constitution and how it influenced possible the development of democratic institutions. Separate study is given to the divisions of the Federal Government, Congress, the Presidency, and the Courts. The overall emphasis is on government as an evolving process, based on fixed principles and informed by history.

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**276 | AMERICAN GOVERNMENT CEW****1 Semester | 0.5 Credit | Grade 12**

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Prerequisites: American Studies; Eleventh-grade Social Studies. The American Government CEW course shares the information and ideas studied in CP Government. Special emphasis is placed on the practical aspects of citizenship: voter registration, elections, public opinion, the rights and duties of citizens. Students who select this course must be enrolled in Lehigh Career & Technical Institute. If a student withdraws from LCTI, they will also be withdrawn from this course and required to enroll in course American Government CP (272).

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**230 | EUROPEAN HISTORY AP****2 Semesters | 1 Credit | Grades 11,12**

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NOTE: If enough requests are made for this course, it may run as an online, asynchronous course. It will not run as an in-person course. This course examines European history since 1450 and introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. Grade weighted upon successful completion of course

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**225 | AFR AMERICAN STUDIES AP****2 Semesters | 1 Credit | Grades 10,11,12**

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AP African American Studies is an interdisciplinary elective course that explores the diversity of African American experiences, from early African kingdoms to contemporary challenges and achievements. Organized into four thematic units, the course follows a chronological flow and engages students with a wide range of texts and sources. Through this framework, students build analytical skills in applying disciplinary knowledge, source analysis, and argumentation, with benchmarks guiding their progress. This AP course offers a rigorous academic challenge while fostering a deeper understanding of America's rich history, making it accessible for students who seek both representation and a broader perspective.

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**229 | HUMAN GEOGRAPHY AP****2 Semesters | 1 Credit | Grades 9,10,11,12**

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This course is intended to provide students with a systematic study of the earth and its inhabitants; students will be discovering how humans use and impact the earth. Using geographic methods of observation, data gathering and reporting, interpreting maps, and employing spatial concepts students will study a variety of global issues from the past and present while also looking at future implications. Topics of study include; how to think geographically and use maps, population issues, culture, political geography, agricultural and rural land use, industrialization and economic development, cities and urban land use and globalization and the environment. With this course students will develop knowledge of geography as a social science and be better prepared for the global marketplace. This course has a summer assignment requirement. Grade weighted upon successful completion of course.

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**255 | PSYCHOLOGY AP****2 Semesters | 1 Credit | Grades 11,12**

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The AP Psychology course introduces students to the systematic scientific study of human behavior and mental processes. While considering the studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with major units of study, including biological bases of behavior, cognition, development, learning, social psychology, personality, and mental and physical health. Throughout the course, students apply psychological concepts and employ psychological research methods and data interpretation to evaluate claims, consider evidence, and effectively communicate ideas. Grade weighted upon successful completion of the course.



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**251 | GENERAL PSYCHOLOGY****1 Semester | 0.5 Credit | Grades 11,12**

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The course deals with the science of behavior. The student is introduced to the environmental reasons for personal activity by examining the founding theories and methods used by psychologists to categorize and explain behavior. Subject matter will include the processes of sensation and perception, learning and conditioning, personality and methodology.

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**253 | ELECTIVE SOCIOLOGY****1 Semester | 0.5 Credit | Grades 11,12**

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The course acquaints the student with the basics of human relations. This is accomplished through an examination of what is culture, how the individual absorbs it and relates to it, the purpose of social institutions, and the real problems that arise from the socialization process. Students are encouraged to observe societal activity and make objective evaluations relating to specific aspects of American culture.

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**284 | INTRODUCTION TO CRIMINAL JUSTICE****1 Semester | 1 Credit | Grades 11,12**

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The course reviews the full spectrum of the criminal justice system. The five primary elements of the system – police, criminal courts, probation, prisons, and parole – are studied. Interrelationships are stressed and problem areas discussed, particularly with respect to Constitutional guarantees. This is a Dual Enrollment course that meets twice a week during periods 1 & 2 at PHS. (Note that scheduling of this course is subject to change as it may be offered on a different schedule in the future.) It is equivalent to CJA 101 worth 3 transferable credits at LCCC provided students earn a final grade of a “C” or higher in the course. A tuition charge applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines.

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**286 | CRIMINAL INVESTIGATIONS****1 Semester | 1 Credit | Grades 11,12**

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Principles of criminal investigation are studied. The crime scene search, interview and interrogation, surveillance, and records are stressed. The techniques used in special investigations, collection and preservation of evidence, and preparation for police cases in court are also covered. This is a Dual Enrollment course that meets twice a week during periods 1 & 2 at PHS. (Note that scheduling of this course is subject to change as it may be offered on a different schedule in the future.) It is equivalent to CJA 105 worth 3 transferable credits at LCCC provided students earn a final grade of a “C” or higher in the course. A tuition charge applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines.

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**287 | LAW ENFORCEMENT AND SOCIETY****1 Semester | 1 Credit | Grades 11,12**

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This course examines the multifaceted roles that law enforcement plays in today's society along with the concept of community policing. An examination of police officer's roles in getting and maintaining public support is reviewed along with the recognition and understanding of community problems, community action programs, methods of coping with crisis situations, ethnic and minority cultures, environments, and police operations in relation to these. The course will also examine the many recognition and understanding of community problems, community action programs, methods of coping with crisis situations, ethnic and minority cultures, environments, and police operations in relation to these. This is a Dual Enrollment course that meets twice a week during periods 1 & 2 at PHS. (Note that scheduling of this course is subject to change as it may be offered on a different schedule in the future.) It is equivalent to CJA 215 worth 3 transferable credits at LCCC provided students earn a final grade of a "C" or higher in the course. A tuition charge applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**288 | CRIM EVID AND COURT PROCED****1 Semester | 1 Credit | Grades 11,12**

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This course examines the historical background, traditions, and legal principles that underlie the courts as an integral component of the American system of Criminal Justice. The differences and similarities inherent within the state and federal court processes are analyzed. Additionally, the procedures through which the criminal courts uphold the basic rights and liberties of all U.S. citizens, both the victims and the accused, are explored. Primary focus is placed on understanding personnel's roles in the criminal court process. This is a Dual Enrollment course that meets twice a week during periods 1 and 2 at PHS. It is equivalent to CJA 201 worth 3 transferable credits at LCCC provided students earn a final grade of a C or higher in the course. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

# MATHEMATICS

## 2025 – 2026 PROJECTED MATHEMATICS PATHS AND CHOICES & COURSE NUMBERS

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
GEOMETRY Honors	(320) COLLEGE ALGEBRA Honors	(390) PRECALCULUS Honors	(340) AP CALCULUS, Level AB	(343) AP CALCULUS, Level BC
ALGEBRA 2	(310) GEOMETRY Honors <i>or</i> (311) GEOMETRY GHP	(320) COLLEGE ALGEBRA Honors <i>or</i> (321) COLLEGE ALGEBRA GHP <i>or</i> (322) COLLEGE ALGEBRA CP	(390) PRECALCULUS Honors <i>or</i> (350) AP STATISTICS <i>or</i> (391) PRECALCULUS CP <i>or</i> (393) TRIG/STATISTICS	(340) AP CALCULUS, Level AB <i>or</i> (350) AP STATISTICS <i>or</i> (342) CALCULUS CP
ALGEBRA 1	(304) ALGEBRA 2 GHP <i>or</i> (301) ALGEBRA 2, Gr. 9	(311) GEOMETRY GHP <i>or</i> (382) GEOMETRY CP	(321) COLLEGE ALGEBRA GHP <i>or</i> (322) COLLEGE ALGEBRA CP <i>or</i> (349) STATISTICS	(391) PRECALCULUS CP <i>or</i> (349) STATISTICS <i>or</i> (393) TRIG/STATISTICS <i>or</i> MATH ELECTIVES
PRINCIPLES OF ALGEBRA	(300) ALGEBRA 1 CP	(302) ALGEBRA 2 CP	(382) GEOMETRY CP <i>or</i> (349) STATISTICS	(323) COLL. ALG. CP, Gr. 12 <i>or</i> (349) STATISTICS <i>or</i> (393) TRIG/STATISTICS <i>or</i> (399) TRANSITIONAL COLLEGE MATH
MATH SEMINAR 8	(318) PRINCIPLES OF ALGEBRA	(300) ALGEBRA 1 CP	(302) ALGEBRA 2 CP	(382) GEOMETRY CP <i>or</i> (349) STATISTICS <i>or</i> (393) TRIG/STATISTICS <i>or</i> (399) TRANSITIONAL COLLEGE MATH

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
MATH SEMINAR 8	(324) MATH SEMINAR	(318) PRINCIPLES OF ALGEBRA	(300) ALGEBRA 1 CP	(302) ALGEBRA 2 CP or (399) TRANSITIONAL COLLEGE MATH

## PLEASE NOTE

- 1 Three years of high school MATH and a minimum of three credits are required for graduation.
- 2 NCAA Clearinghouse Division I eligibility requires two math courses at the level of Algebra I or above between 9th and 12th grades. Only courses marked with an asterisk (\*) are approved by the NCAA Clearinghouse.
- 3 Students may change paths. Please consult with your guidance counselor.
- 4 Courses listed are based on curriculum and student projections. Actual course offerings are based on actual student requests.
- 5 This listing is based on the best information available at this time. It is not a guarantee of courses to be offered.
- 6 Course selection should be made on the basis of parent and student interest after evaluation of one's academic abilities.

## THE 300 COURSES: MATHEMATICS

● AP Advanced Placement
 ● H Honors
 ● PLTW Project Lead The Way
 ● DC Dual Credit
 ● AHC Arts & Humanities Credit
 ● TAC Tech Applications Credit
 ● NCAA NCAA/Clearinghouse

### 324 | MATH SEMINAR

2 Semesters | 1 Credit | Grade 9

NOTE: THIS COURSE IS NOT AVAILABLE FOR STUDENTS WHO HAVE COMPLETED ALGEBRA 1. This course introduces students to fundamental math concepts needed for success in Principles of Algebra. Through ongoing data collection, students will receive individualized instruction designed to challenge them within their current skillsets and to provide remediation and/or enrichment when appropriate. The topics include number system, ratios, proportions, expressions, exponents, basic geometry, statistics, probability, graphing coordinates and linear equations, functions and solving multi-step equations. The focus is on learning the computational procedures and then applying the skills to problem solving in applications. Throughout this course, students will learn problem solving skills and analytical thinking.

### 318 | PRINCIPLES OF ALGEBRA

2 Semesters | 1 Credit | Grades 9,10

NOTE: THIS COURSE IS NOT AVAILABLE FOR STUDENTS WHO HAVE COMPLETED ALGEBRA 1. This course will prepare students with the skills needed for success in Algebra 1. For this course, students should possess a strong foundation of Pre-Algebra concepts such as operations with real numbers, order of operations, and solving linear equations. Students will develop an understanding of various math skills such as solving linear and absolute value equations and inequalities, radicals, exponents rules, graphing, absolute value equations and inequalities, systems of equations and inequalities, analyzing graphs and statistics. The topics covered include theory as well as practical and real-world applications.

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**300 | ALGEBRA 1 CP** **2 Semesters | 1 Credit | Grades 9,10**

In this course, students will study operations with expressions, equations, inequalities and absolute value, percentages and proportions, graphing, systems of equations and inequalities, exponents, radicals, polynomials and quadratics, analyzing graphs, and statistics. Various strategies will be used to deliver instruction, including the use of technology.

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**304 | ALGEBRA 2 GHP** **2 Semesters | 1 Credit | Grades 9,10**

Prerequisite: Completion of Algebra I; It is recommended that students scored Proficient or Advanced on the Keystone Algebra Exam. This is the second course in the Algebra sequence. Topics introduced in Algebra 1 are expanded and new algebraic concepts will be introduced. These include: Number Systems, Non-Linear Expressions and Equations, Patterns, Relations, Functions, Application of Functions, and Data Analysis. In addition, several new topics (rational expressions, polynomial functions, complex numbers, logarithmic functions, exponential functions and counting principles) will be studied.

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**301 | ALGEBRA 2, GRADE 9 CP** **2 Semesters | 1 Credit | Grade 9**

Prerequisite: Algebra 1 CP. This is the second course in the Algebra sequence. Various topics introduced in Algebra 1 are expanded and reviewed. New algebraic concepts will be introduced. These new concepts include non-linear expressions and equations, applications of functions, rational expressions, variation, radical equations, and complex numbers.

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**302 | ALGEBRA 2 CP** **2 Semesters | 1 Credit | Grades 10,11**

Prerequisites: Algebra 1 CP. This is the second course in the Algebra sequence. Various topics introduced in Algebra 1 are expanded and reviewed. New algebraic concepts will be introduced. These new concepts include non-linear expressions and equations, applications of functions, rational expressions, variation, radical equations, and complex numbers.

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**310 | GEOMETRY HONORS**  **2 Semesters | 1 Credit | Grade 9**

Prerequisites: Invitation based on standardized and local test information, teacher evaluation, and Algebra 2 GHP grade. Geometry enables a student to study relationships between geometric figures using deductive reasoning. The course develops a logical mathematical system using definitions, assumptions, properties, and theorems. Included are topics such as congruent and similar triangles, parallel lines, ratio and proportion, areas, circles, etc. The accelerated content of this course, which is aligned with the PA Common Core State Standards, also includes coordinate geometry, transformational geometry, solid geometry, and introduction to trigonometry. Grade weighted upon successful completion of course. Final grade of "B" or better provides automatic placement in the next course in the series.

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**311 | GEOMETRY GHP****2 Semesters | 1 Credit | Grades 9,10**

Prerequisites: Invitation to gifted/high potential students based on standardized and local test information, teacher evaluation, and Algebra 2 GHP/CP grade. Geometry enables a student to study relationships between geometric figures using deductive reasoning. The course develops a logical mathematical system using definitions, assumptions, properties, and theorems. Included are topics such as congruent and similar triangles, parallel lines, ratio and proportion, areas, volumes, circles, and polygons. Activities and resources that require higher level thinking skills and differentiated content are used to challenge the capabilities of these higher achieving students. The course is aligned with the PA Core Standards. Final grade of C or better provides automatic placement in the next course in the series.

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**382 | GEOMETRY CP****2 Semesters | 1 Credit | Grades 10,11,12**

Prerequisite: Algebra 2 CP. Geometry enables a student to study relationships between geometric figures using deductive reasoning. The course develops a logical mathematical system using definitions, assumptions, properties, and theorems. Included are topics such as congruent and similar triangles, parallel lines, ratio and proportion, areas, circles, and polygons.

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**320 | COLLEGE ALGEBRA HONORS****2 Semesters | 1 Credit | Grades 9,10**

Prerequisites: Honors Geometry completion and teacher recommendation. This course is geared to the advanced student in mathematics. It is designed to introduce students to the nature of Algebra as a logical system, emphasizing theory as well as application. The course begins with a review and extension of the fundamental concepts of Algebra, equations and inequalities. Relations and functions, polynomial and rational functions and their graphs, exponential and logarithmic functions, counting theory, and systems of equations and inequalities are covered. Grade weighted upon successful completion of course. Final grade of "B" or better provides automatic placement in the next course in the series.

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**321 | COLLEGE ALGEBRA GHP****2 Semesters | 1 Credit | Grades 10,11**

Prerequisites: Invitation to gifted/high potential students based on standardized and local test information, teacher evaluation, and Geometry GHP "C" or higher average. College Algebra GHP is a full year course that continues the study of the concepts presented in Algebra 2. These include algebraic expressions, linear and non-linear equations and inequalities, relations and functions, polynomial and rational functions and their graphs, exponential and logarithmic functions, and systems of equations and inequalities. Final grade of "C" or better provides automatic placement in the next course in the series.

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**322 | COLLEGE ALGEBRA CP****2 Semesters | 1 Credit | Grades 10,11**

Prerequisites: Algebra 2 GHP/CP and Geometry GHP/CP. College Algebra CP is a full year course that continues the study of the concepts presented in Algebra 1 and Algebra 2. These include studies in algebraic expressions, linear and non-linear equations and inequalities, relations and functions, graphing, systems of equations and inequalities, polynomial and rational functions, exponential and logarithmic functions.

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**323 | COLLEGE ALGEBRA CP****2 Semesters | 1 Credit | Grade 12**

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Prerequisite: Algebra 2 GHP/CP and Geometry GHP/CP. College Algebra CP, Grade 12 is a full year course for seniors who wish to continue their mathematical careers in preparation for college. This course continues the study of the concepts presented in Algebra I and Algebra II. These include the study of: algebraic expressions, linear and non-linear equations and inequalities, relations and functions, polynomial and rational functions, exponential and logarithmic functions, graphing systems of equations and inequalities.

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**399 | TRANSITIONAL COLLEGE MATH****2 Semesters | 1 Credit | Grade 12**

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Prerequisite: Successful completion of Algebra 1. Transitional College Math is a course designed to strengthen students' mathematical skills as they prepare for their goals beyond graduation. In partnership with Lehigh Carbon Community College (LCCC), the coursework satisfies LCCC's requirements for placing out of their remedial mathematics courses. Students will utilize the diagnostic capabilities of online math software to identify areas of needed improvement. They will then work through a remediation plan at an individual pace to strengthen their areas of need. Successful completion of the course will help students to fulfill the math entry requirements required for admission at LCCC while also helping students to develop and enhance their math skills.

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**390 | PRECALCULUS HONORS****2 Semesters | 1 Credit | Grades 10,11**

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Prerequisites: Honors College Algebra completion and teacher recommendation. Honors Precalculus is organized into units comprised of the content and conceptual understandings that colleges and universities typically expect Precalculus students to master to qualify for college credit and/or placement. Topics of study include Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions, and Functions Involving Parameters, Vectors, and Matrices. Note that this course has a required summer assignment. Final grade of "B" or better provides automatic placement in the next course in the series. Grade weighted upon successful completion of course.

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**391 | PRECALCULUS CP****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisite: College Algebra GHP/CP. This course is geared to the student who needs to prepare for a future course in Calculus. Topics will include logarithmic and exponential functions, sequence, series and limits. This course will investigate the six trigonometric functions, the six inverse trigonometric functions and their many applications. Students will also investigate graphs of the trigonometric functions as well as the basic conic sections: circles, parabolas, ellipses and hyperbolas. Deductive reasoning and problem-solving applications will be emphasized.

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**350 | STATISTICS AP****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisites: Completion of GHP or Honors College Algebra. Grade weighted upon successful completion of course. Advanced Placement Statistics consists of four main topics: exploring data, planning a study, probability as related to distributions, and inferential reasoning. The full-year, college level course blends the rigor, calculations, and deductive thinking of mathematics with real world applications, problems of social sciences, the decision making of business, and experimental procedures of natural sciences. Grade weighted upon successful completion of course.

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**349 | STATISTICS****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisite: Completion of Algebra 2. Statistics is a full year course for seniors that focuses on the science of interpreting data. This course will deal with the collection, classification and use of numerical facts (data) with respect to a specific subject or matter. This course will blend calculations and the deductive reasoning of mathematics with real world application. Topics to be covered include: Exploring Data, Distributions and their Applications, Confidence Intervals, Hypothesis Testing and Linear Regression. This course would be beneficial for those students who are anticipating a career in business, economics or the social sciences. This course is not intended for a student who wants to take the AP Statistics Exam in May.

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**393 | TRIGONOMETRY/STATISTICS****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisite: Completion of Algebra 2. This course is designed to give a junior or senior student an introduction to the basic concepts of both Trigonometry and Statistics. The first half of the course will be built around the six trigonometric functions which are defined from previously learned algebraic and geometric concepts. These functions will allow students to solve problems and applications of right triangles. Students will verify trigonometric identities, solve trigonometric equations and graph trigonometric functions. During the second half of the course, students will study the basic concepts of Statistics which is the study of data collection and interpretation. Students will collect, classify and use numerical facts to interpret and analyze data sets. This course is best suited for the junior or senior who has completed College Algebra and who wishes to study an introduction to Trigonometry and Statistics in a hands-on approach. This course is not intended for a student who wants to take the AP Statistics Exam in May.

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**340 | CALCULUS AP, LEVEL AB****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisites: Honors College Algebra, Honors Precalculus, and teacher recommendations. This course is geared to the advanced student who will encounter higher mathematics in college in specialized fields such as engineering, science and mathematics. Differential and integral calculus, and a review of analytical geometry related to calculus are included. Students are introduced to a functional concept as a way of reaching the differential and integral calculus. In addition to the basic calculus course content, additional concepts relating to integration and differentiation may also be presented. Completion of this course will prepare students to take the Advanced Placement Calculus AB test in May. Note that this course has a required summer assignment. Grade weighted upon successful completion of course.



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**342 | CALCULUS CP** **2 Semesters | 1 Credit | Grade 12**

Prerequisites: Precalculus Honors/CP. This course is geared to the advanced student in mathematics. Basically, the course is for the student who will encounter higher mathematics in college work. Material found in the course includes differential and integral calculus, and a review of analytical geometry related to calculus. Students are introduced to a functional concept as a way of reaching the differential and integral calculus. In addition to the basic calculus course content, additional concepts relating to integration and differentiation may also be presented.

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**343 | CALCULUS AP, LEVEL BC**  **2 Semesters | 1 Credit | Grades 11,12**

Prerequisites: Successful completion of Calculus AP, Level AB and teacher recommendation. 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. Differential and Integral Calculus and their applications will be reviewed and extended. Transcendental functions, advanced integration techniques with their applications, Infinite Series and other relevant topics will fill the remainder of the course. Students may take this course for four (4) undergraduate college credits through Lehigh Carbon Community College`s dual enrollment program. The student is responsible for the payment of the reduced tuition to the college for this course. Completion of this course will prepare the student for the Advanced Placement Calculus BC test in May. Note that this course has a required summer assignment. Grade weighted upon successful completion of course.

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**344 | ADVANCED TOPICS IN CALCULUS (AP WEIGHTED)**    
**2 Semesters | 1 Credit | Grades 11,12**

Prerequisites: Successful completion of both AP Calculus AB (340) and AP Calculus BC (343). Students taking this course will move beyond the AP Calculus sequence and will explore the concepts of vector analysis, three-dimensional analytic geometry, vectors in space, partial differentiation, double and triple integrals, and integral vector calculus. Students may take this course for four (4) undergraduate college credits through Lehigh Carbon Community College`s dual enrollment program. The student is responsible for the payment of the reduced tuition to the college for this course. This course has a summer assignment requirement. Grade weighted upon successful completion of course. The course is weighted at the AP level. However, please note that this is NOT an AP course as per the College Board. Thus, students will NOT take an AP exam for this course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education`s guidelines

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**359 | GAME DEVELOPMENT & DESIGN** **1 Semester | 0.5 Credit | Grades 9,10,11,12**

This course explores the fundamentals of game design and development. It will focus on the core features of the Unity3D game engine. Students will work on all aspects of game design which includes level design, texturing and materials, terrain, physics, animation, 2D & 3D rendering, and user interface. Students will also be introduced to programming in C# to develop scripts to implement into their games to create functionality and interactivity. By the end of the school year students will be able create a game that includes many of the common features found in current video games.

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**353 | MATH INTERNSHIP****1 Semester | 0.25 Credit | Grades 11,12**

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Prerequisite: “B” or better in any GHP or Honors level math course beyond Algebra 2. Math Interns work in the library and/or classrooms to assist students during the school day OR before/after school based on the tutoring needs of students in our various math support programs. Interns will be assigned to work with 1-3 students who need additional instructional support in a math course that the Intern has already successfully completed. Interns will reinforce concepts taught by the math teacher, help students organize for study, review for tests, assist with homework, and encourage their students to persevere. Interns will receive training in the course procedures, effective communication, and tutoring techniques. Interns may apply their hours of service toward the National Honor Society tutoring requirement. Course is offered Pass/Fail.

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**354 | TECHNOLOGY INTERNSHIP****1 Semester | 0.25 Credit | Grades 9,10,11,12**

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Prerequisites: Application and Teacher Recommendation. This option is available to students who complete an application and show strong leadership, technology skills and ethical practices. The Technology Internship involves participation in the Trojan Tech Team. This team of students will receive hands-on experience solving computer-related issues for students and teachers at PHS. Students will also receive basic training, individual guidance, and collaborative opportunities. The Coordinator of Educational Technologies and the Library Media Specialists will conduct the supervision and training of the group. Becoming a high school student technician requires enthusiasm, commitment, determination and participation in various activities. Students may take this course for multiple semesters. Course is offered Pass/Fail

# SCIENCE

## 2025 – 2026 PROJECTED SCIENCE PATHS AND CHOICES

9th Grade	10th Grade	11th Grade	12th Grade
(410) EARTH SCIENCE HONORS <i>or</i> (424) BIOLOGY HONORS +	(424) BIOLOGY HONORS + <i>or</i> (410) EARTH SCIENCE HONORS <i>or</i> (430) CHEMISTRY HONORS	(430) CHEMISTRY HONORS <i>or</i> (440) PHYSICS 1 AP <i>or</i> (443) PHYSICS 2 AP <i>or</i> (444) AP PHYSICS C: MECHANICS <i>and/or</i> (447) AP PHYSICS C: ELEC. & MAG. <i>or</i> (420) BIOLOGY AP <i>or</i> (455) ENVIRONMENTAL SCIENCE AP <i>or</i> (434) AP CHEMISTRY	(434) CHEMISTRY AP <i>or</i> (443) PHYSICS 2 AP <i>or</i> (444) AP PHYSICS C: MECHANICS <i>and/or</i> (447) AP PHYSICS C: ELEC. & MAG. <i>or</i> (420) BIOLOGY AP <i>or</i> (455) ENVIRONMENTAL SCIENCE AP <i>or</i> (430) CHEMISTRY HONORS <i>or</i> (440) PHYSICS 1 AP
(411) EARTH SCIENCE GHP	(421) BIOLOGY GHP +	(431) CHEMISTRY GHP	(441) PHYSICS GHP
(412) EARTH SCIENCE CP	(422) BIOLOGY CP +	(432) CHEMISTRY CP <i>or</i> (436) CONCEPTUAL CHEMISTRY/ (446) CONCEPTUAL PHYSICS <i>or</i> (435) PSI – CHEM/(445) PSI – PHYSICS <i>or</i> SCIENCE ELECTIVES	(442) PHYSICS CP <i>or</i> SCIENCE ELECTIVES

**+ NOTE: Biology (Honors, GHP, or CP) is required for graduation.**

**SCIENCE ELECTIVES:** Elective courses can be substituted for recommended courses or taken along with recommended courses.

### PLEASE NOTE

- 1** Three credits of high school SCIENCE are required for graduation, including Biology (Honors, GHP, or CP).
- 2** NCAA Clearinghouse Division 1 eligibility requires two lab science courses between 9th and 12th grades. Only courses marked with an asterisk (\*) are approved by the NCAA Clearinghouse.
- 3** Students may change paths. Please consult with your guidance counselor.
- 4** Courses listed are based on curriculum and student projections.
- 5** Actual course offerings are based on actual student requests.

- 6 This listing is based on the best information available at this time. It is not a guarantee of courses to be offered.
- 7 Course enrollment should be made on the basis of parent and student interest after evaluation of the individual academic abilities.

## THE 400 COURSES: SCIENCE

AP Advanced Placement  
 H Honors  
 PLTW Project Lead The Way  
 DC Dual Credit  
 AHC Arts & Humanities Credit  
TAC Tech Applications Credit  
 NCAA NCAA/Clearinghouse

### 410 | EARTH SCIENCE HONORS H NCAA 2 Semesters | 1 Credit | Grade 9

Prerequisites: Algebra 1. Based on standardized test results, previous performance, teacher evaluation, interest in and enthusiasm about the subject. This course includes the study of the formation of common rocks and minerals, the structure of the earth’s interior, the geologic and biological evolution of the earth, and the processes that create the surface landscape, hydrosphere, and atmosphere. Human and environmental hazards are also examined. Laboratory work includes the study of rocks, minerals fossils, topographic maps, landforms, and geologic maps. The scientific methods by which earth scientists interpret earth history and solve environmental problems are introduced. Grade weighted upon successful completion of course.

### 411 | EARTH SCIENCE GHP NCAA 2 Semesters | 1 Credit | Grades 9,10,11,12

The Earth Science GHP course presents the student with an Earth systems approach to scientific inquiry. This lab-oriented course is designed to introduce students to the interdependence of the Earth’s major sub-systems: lithosphere, biosphere, hydrosphere, atmosphere, and cryosphere. An emphasis will be placed upon classroom activities and computer applications that require higher level thinking skills and some differentiation of content. GHP students will enhance their critical thinking through the completion of an Earth Science research project.

### 412 | EARTH SCIENCE CP NCAA 2 Semesters | 1 Credit | Grades 9,10,11,12

The college preparatory course presents students with an Earth Systems approach to scientific inquiry. This lab-oriented course is designed to introduce the interdependence of the Earth’s major sub-systems: lithosphere, biosphere, hydrosphere, atmosphere and cryosphere. An emphasis will be placed upon classroom activities and computer applications that promote the development of science process skills.

### 463 | GEOLOGY OF NATIONAL/STATE PARKS TAC 1 Semester | 0.5 Credit | Grades 11,12

Prerequisites: Successful completion of both Algebra 1 and Biology. This one-semester lab course is an introduction into the ecology and geology of the National Parks and other natural areas of the US. Students will become familiar with ecological and geological concepts through examples drawn exclusively from our National and State parks (e.g., Grand Canyon, Zion, Bryce Canyon, etc.) The use of various activities will provide additional learning opportunities for each student.

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**464 | OCEANOGRAPHY****1 Semester | 0.5 Credit | Grades 11,12**

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Prerequisites: Successful completion of both Algebra 1 and Biology. This laboratory-oriented course will provide an introduction to the marine sciences with an emphasis on the physical features of ocean basins, shoreline processes, the physical and chemical nature of seawater, and natural resources of the ocean. Field trips, computer applications, and various activities will provide additional opportunities for further investigations.

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**461 | METEOROLOGY****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisites: Successful completion of both Algebra 1 and Biology. Meteorology is the study of the atmosphere and weather conditions. This course will acquaint students with earth processes that create weather patterns and systems. Students will explore concepts through laboratory work, outdoor labs, computer investigations, and research, as well as mapping and satellite imagery. Students should be aware that there will be extensive application of math skills. Classroom activities and applications require higher level reading comprehension and the ability to synthesize information.

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**462 | ASTRONOMY****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisites: Successful completion of both Algebra 1 and Biology. Astronomy is the study of the universe. This course will acquaint students with the history of astronomy, the fundamentals of astronomical theory, including the evolution of stars, the structure of galaxies, and the history and future of space exploration. Students will explore concepts through laboratory work, computer investigations and research, and debates on public policy and the space administration. Students should be aware that math skills are crucial to understanding many astronomical concepts.

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**437 | ENVIRONMENTAL SCIENCE****1 Semester | 0.5 Credit | Grades 11,12**

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This course emphasizes the interrelationships between humans and their environment. Major units include human population problems, water resources and pollution, air resources and pollution, soil resources, wildlife habitats, energy and mineral resources, and relationships between society and the biosphere. Learning is accomplished through the use of reading text, lecture notes, frequent lab activities, individual worksheets, group work, videos, and case studies.

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**424 | BIOLOGY HONORS****2 Semesters | 1 Credit | Grades 9,10**

Prerequisites: This course is designed for students who have a strong interest in science, have demonstrated outstanding previous performance in the sciences, and have received the appropriate teacher recommendation. Honors biology follows a molecular approach to the understanding and appreciation of living things and their environment and is aligned to the PA State Standards. The course sequence follows the 8 anchors assessed on the PA Biology Keystone Exam, and students are required to take the Keystone Exam at the end of the course. Students at the honors level will be expected to demonstrate higher levels of learning, cover materials at a faster pace, and exhibit successful independent learning strategies. Grade weighted upon successful completion of course. NOTE: BIOLOGY IS REQUIRED FOR GRADUATION. THIS COURSE FULFILLS THIS GRADUATION REQUIREMENT.

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**421 | BIOLOGY GHP****2 Semesters | 1 Credit | Grades 10,11**

GHP biology follows a molecular approach to the understanding and appreciation of living things and their environment and is aligned to the PA State Standards. The course sequence follows the 8 anchors assessed on the PA Biology Keystone Exam, and students are required to take the Keystone Exam at the end of the course. The content of this course is the same as that of the CP Biology course. However, some differentiated instruction is used to challenge the capabilities of these students. NOTE: BIOLOGY IS REQUIRED FOR GRADUATION. THIS COURSE FULFILLS THIS GRADUATION REQUIREMENT.

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**422 | BIOLOGY CP****2 Semesters | 1 Credit | Grades 10,11,12**

CP Biology follows a molecular approach to the understanding and appreciation of living things and their environment and is aligned to the PA State Standards. The course sequence follows the 8 anchors assessed on the PA Biology Keystone Exam, and students are required to take the Keystone Exam at the end of the course. This course is designed for the college preparatory level student, and course pacing is less intense than that of the GHP and Honors levels. NOTE: BIOLOGY IS REQUIRED FOR GRADUATION. THIS COURSE FULFILLS THIS GRADUATION REQUIREMENT.

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**420 | BIOLOGY AP****2 Semesters | 1 Credit | Grades 11,12**

Prerequisites: Successful completion of full year Biology and Chemistry courses at either GHP or Honors level. The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course. The aim is to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal with the rapidly changing science of biology. The course is taught as a hands-on, inquiry-based approach structured around the four Big Ideas identified by the College Board. The major concepts of the course include molecules and cells, heredity and evolution, and organisms and populations. Each of these concepts has ties to the Big Ideas and incorporates the themes of science as a process, structure and function, energy use, reproduction, and evolution. Students are expected to spend two hours of studying and preparation outside of class for every hour of class time. (This includes reading the text, completing online activities and assessments, reviewing mrials, and completing research and lab reports.) Grade weighted upon successful completion of course. NOTE THAT BIOLOGY AP DOES NOT FULFILL THE BIOLOGY GRADUATION REQUIREMENT AS STUDENTS MUST COMPLETE A FULL YEAR OF BIOLOGY TO PARTIALLY FULFILL THE PREREQUISITES FOR THIS COURSE.

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**455 | ENVIRONMENTAL SCIENCE AP****2 Semesters | 1 Credit | Grades 11,12**

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Recommended Prerequisites: Successful completion of Earth Science, Biology, and Chemistry. This course emphasizes the interrelationships between humans and the environment. Major units include human population problems, water resources and pollution, air resources and pollution, soil resources, wildlife habitats, energy and mineral resources, and relationships between society and the biosphere. Learning is accomplished through the use of reading the text, lecture notes, frequent lab activities, individual worksheets, group activities, videos, and several field trips. The class will follow the AP Environmental Science curriculum from the College Board and students may choose to complete the AP test for Environmental Science in May. The course has a required summer assignment. Grade weighted upon successful completion of course.

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**438 | HUMAN BIOLOGY****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisites: Grade of "C" or better in Biology and teacher recommendation; It is recommended that students take this course prior to enrolling in Anatomy and Physiology (452). This course is designed for students who would like to expand their knowledge of the human body. An integrated approach is taken to the study of structures and functions of the 11 systems of the human body via laboratory experiences and text-based instruction. Emphasis is placed on symptoms, causes, and treatments of various human diseases. Students will also dissect a fetal pig in this course. NOTE THAT HUMAN BIOLOGY DOES NOT FULFILL THE BIOLOGY GRADUATION REQUIREMENT.

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**452 | ANATOMY AND PHYSIOLOGY****1 Semester | 0.5 Credit | Grades 11,12**

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Recommended Prerequisites: Grade of "B" or better in Biology and teacher recommendation; It is recommended that students complete Human Biology (438) prior to enrolling in this course. This is an advanced biology elective emphasizing the structures and functions of the human body. The course is designed for those students considering a profession in or relating to the allied health fields. Strong emphasis is placed on the terminology in anatomy. Content includes directional and positional terms, biological organization, overview of body systems, and nutrition. Students will also dissect a cat in this course.

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**453 | ECOLOGY****1 Semester | 0.5 Credit | Grades 10,11,12**

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Recommended Prerequisite: Grade of "C" or better in last science course. This course emphasizes the interrelationships between humans and their environments. Topics include biomes, pollution, populations, plant and animal identification, and sampling techniques

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**454 | BOTANY****1 Semester | 0.5 Credit | Grades 10,11,12**

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Recommended Prerequisite: Biology. This course uses laboratory, text, and field investigations to study the plant kingdom. Areas of concentration include the classification of plants, the structure and function of plant tissues and organs, and the importance of plants to humans. Each student will complete a major botany project as well as an independent research project involving plants.

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**456 | ZOOLOGY****1 Semester | 0.5 Credit | Grades 10,11,12**

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Recommended Prerequisite: Biology. This course uses laboratory, text, and field investigations to study the animal kingdom. Dissection is a required part of this course. Areas of concentration include the classification of animals, comparative anatomy and physiology, and field identification of local animals. Dissection of a vertebrate such as a dogfish shark and/or fetal pig will be included.

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**484 | SCIENCE OF FIREFIGHTING****1 Semester | 0.5 Credit | Grades 11,12**

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This course is an elective that utilizes a cross-curricular approach to examine the practice of firefighting. The class will focus on many different aspects of an emergency: fire behavior, building construction, hazardous materials, and teamwork. History, language skills, law, technology, and scientific theory will be addressed. Instruction will include a blend of theory and “hands-on” skill building, involving all of the resources used in the fire service, including protective clothing, packs, tools, ropes, engines, and hose lines. Students will have the opportunity to become certified in CPR and First Aid.

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**486 | EMERGENCY MEDICAL TECHNICIAN BASIC COURSE****2 Semesters | 1 Credit | Grade 12**

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Prerequisite: Students must be 16 years of age by the end of May of the school year. In addition, all interested students must complete and submit an application, which is reviewed to determine eligibility for the course. Mr. Gopen, the course instructor, will distribute the application electronically to all who express interest in this course. As there are only limited seats available, completion of this application is required by all who want to take the course. Students will be notified of their acceptance before the end of their junior year. Emergency medical technicians (EMT) are the first medical professionals to arrive on the scene of a crisis, evaluate the severity of the wound or illness and provide medical treatment. Because their quick responses and depth of knowledge will often save lives, an EMT must complete formal training and be licensed before treating patients. In partnership with Cetronia Ambulance Corp., students will have the opportunity to participate in this certification course that will prepare students to pass the assessments needed for EMT certification, including the practical psychomotor skills examination, the national registry written test, and patient contact evaluation. Students will be given an array of written and hands-on experiences to prepare them for the assessments. As this is a national registry certification, students will be able to take this anywhere throughout the United States to work as an EMT. Note that this course requires students to pay an exam fee or certification. Students are also required to have 10 patient interactions that they must schedule on their own with Cetronia Ambulance Corp. The course will run for a double period for the full year.

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**430 | CHEMISTRY 1 HONORS****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisites: Student must have earned an “A” in Algebra 2. Honors Biology teacher recommendation. This course is designed for students who are planning a career in the sciences and have a strong background in physical science. A solid math foundation is necessary to participate in this theoretically oriented, in-depth study of selected topics as it also includes topics generally taught in the first half of the AP Chemistry course. Students completing this course with a “B” or better have the option to register for AP Chemistry. Grade weighted upon successful completion of course.



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**431 | CHEMISTRY GHP****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisites: Student must have earned a “B” or better in Algebra 2. GHP or Honors Biology teacher recommendation. The content of this course is more demanding than the CP Chemistry course. Activities, resources and assessments that require higher level thinking skills and some differentiated content are designed to challenge the abilities of the students.

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**432 | CHEMISTRY CP****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisite: Successful completion of Biology and a grade of “C” or better in Algebra II or must be taking Algebra II concurrently. This course is designed for students whose career plans recommend a required high school chemistry course. Note that a strong algebraic foundation is the backbone of success in chemistry as this empowers students to not only solve problems but also to understand the quantitative relationships that govern the world of matter.

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**434 | CHEMISTRY AP****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisite: Final grade of “B” or better in Chemistry 1 Honors. This is a laboratory-oriented course for those students planning a career in the sciences desiring a strong background in chemistry. A solid math foundation is necessary to participate in this theoretically oriented in-depth study of selected topics. The course has a required summer assignment. Grade weighted upon successful completion of course.

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**435 | PHYSICAL SCIENCE INVESTIGATIONS: CHEMISTRY****1 Semester | 0.5 Credit | Grades 11,12**

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Prerequisites: Successful completion of Earth Science and Biology. This class will use a hands-on approach to investigate the concepts of chemical reactions, the structure of matter, and its periodic qualities. This course meets in a single period for one semester and must be taken in conjunction with # 445 Physical Science Investigations: Physics in order to meet the graduation requirement.

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**445 | PHYSICAL SCIENCE INVESTIGATIONS: PHYSICS****1 Semester | 0.5 Credit | Grades 11,12**

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This class will use a hands-on approach to investigate the concepts of motion, forces, and energy. This class meets in a single period for one semester and must be taken in conjunction with # 435 Physical Science Investigations: Chemistry in order to meet the graduation requirement.

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**436 | CONCEPTUAL CHEMISTRY****1 Semester | 0.5 Credit | Grades 11,12**

Prerequisites: Successful completion of Earth Science, Biology, and a grade of “C” or better in Algebra 1 OR concurrent enrollment in Algebra 1. This course, which meets daily for a single period, will cover broad concepts in chemistry. Students will explore scientific measurement, the periodic table, physical and chemical changes, and properties and phases of matter. This course must be selected with Conceptual Physics to fulfill the science requirement for one year.

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**446 | CONCEPTUAL PHYSICS****1 Semester | 0.5 Credit | Grades 11,12**

Prerequisites: Successful completion of Earth Science, Biology, and a grade of “C” or better in Algebra 1 OR concurrent enrollment in Algebra 1. This course, which meets daily for a single period, is an introductory course in physics and will be developed through lab activities, demonstrations and various hands-on experiences. Topics will include mechanics, waves and sound, light and optics, and electricity and magnetism. This course must be selected with Conceptual Chemistry to fulfill the science requirement for one year.

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**441 | PHYSICS GHP****2 Semesters | 1 Credit | Grades 10,11,12**

Prerequisites: Final Grade of “B” or better in Algebra 2 and Geometry. The content of this course is the same as that of the Physics CP course; however, activities and resources that require higher level thinking skills and some differentiated content are used to challenge the capabilities of these students.

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**442 | PHYSICS CP****2 Semesters | 1 Credit | Grades 11,12**

Recommended Prerequisites: Grade of “C” or better in Algebra 2 and Geometry. Students interested in expanding their level of scientific literacy and their knowledge of how physics can be integrated into various career fields should consider this course. Areas that will be studied are motion, force, momentum, energy, special relativity, waves, sound, light, color, reflection, refraction, lenses, diffraction, interference, electrostatics, electric fields, potential, electric current, electric circuits, magnetism, and electromagnetic induction. Laboratories, demonstrations, and applications are an integral part of this course.

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**440 | PHYSICS 1 AP****2 Semesters | 1 Credit | Grades 11,12**

Prerequisite: Final grade of “B” or better in Honors or GHP College Algebra. The content of this course is highly theoretical and in depth. Areas studied are translational and rotational motion, force, momentum, energy, gravitation, waves, sound, elastatics and DC circuits. Computer-based laboratories, demonstrations, and many real-life applications are an integral part of this course. This is a first year, algebra-based course, and if taken by the student as an underclassman, will prepare the student for the Physics AP Level C offerings, which are calculus based, or Physics 2 AP. Students succeeding on the Physics 1 AP test may claim up to five college credits in Physics or some other elective. (Note that this varies by college/university.) This course will utilize a hybrid instructional format with use of both an online platform and a traditional classroom setting. Grade weighted upon successful completion of course.

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**443 | PHYSICS 2 AP****2 Semesters | 1 Credit | Grades 11,12**

Prerequisite: Final grade of “B” or better in Physics 1 AP. This course is appropriate for students who wish to pursue careers in mathematics, physics, architecture, engineering, actuary, medicine, pharmacy, life sciences, geology, meteorology, environmental science, agriculture, construction management, and much more. AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as: fluid statics and dynamics, thermodynamics with kinetic theory, PV diagrams and probability, electrostatics, electrical circuits with capacitors, magnetic fields, electromagnetism, physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students succeeding on the Physics 2 AP test may claim up to five college credits in Physics or some other elective. (Note that this varies by college/university.) Grade weighted upon successful completion of course.

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**444 | AP PHYSICS C: MECHANICS****1 Semester | 1 Credit | Grade 12**

Prerequisites: A final grade of “B” or better in Physics 1 AP. Must be taking or have taken Calculus. This course covers the physics of motion, force, energy, and momentum. Engineering and science applications are studied and include the design and control of spacecraft, airplanes, trains and roller coasters, road and structural design, accident investigation, ballistics, navigation, and sports. Real-time computer-based data collection techniques using acceleration, force and motion sensors, and video analysis are an integral part of the laboratory and demonstrations. Students succeeding on the Physics C AP: Mechanics test may claim up to five college credits in Physics or some other elective. (Note that this varies by college/university.) Grade weighted upon successful completion of course.

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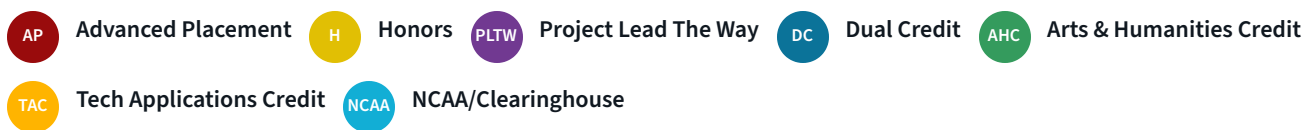
**447 | AP PHYSICS C: ELECTRICITY AND MAGNETISM****1 Semester | 1 Credit | Grade 12**

Prerequisites: A final grade of “B” or better in AP Physics C: Mechanics. Must be taking or have taken Calculus. This course explores topics such as electrostatics, conductors, capacitors and dielectrics, electric circuits, magnetic fields, and electromagnetism. Introductory differential and integral calculus is used throughout the course. This course helps students develop a deep understanding of foundational principles of physics in electricity and magnetism by applying these principles to complex physical situations that combine multiple aspects of physics rather than present concepts in isolation. Students succeeding on the AP Physics C: Electricity and Magnetism test may claim up to five college credits in Physics or some other elective. (Note that this varies by college/university.) Grade weighted upon successful completion of course.

## WORLD LANGUAGES

The World Language Department offers five languages: Spanish, French, German, Latin, Sign Language, and Chinese. In addition, Arabic is offered through our partnership with LCCC (see course description below). The core student skills focus on speaking, listening, reading, and writing in the target language. Students also interact with the products, practices and perspectives of the cultures and communities being studied. Students who plan to attend a college/university are strongly advised to schedule a minimum of two years of one world language and are encouraged to take more. Students applying to more competitive colleges/universities should complete four or five years of a world language in order to satisfy more demanding entrance requirements. The ability to communicate with respect and cultural understanding in more than one language is an essential element of global competence in the 21st century.

### THE 500 COURSES: WORLD LANGUAGES



**514 | SPANISH 1 CP**   **2 Semesters | 1 Credit | Grades 9,10,11,12**

The emphasis in this course is directed toward the four basic language skills: listening, speaking, reading, and writing. The target language is spoken in the classroom to develop comprehension and conversation. These two skills are reinforced through the use of audio, video, and technology. Reading and writing skills are developed through written exercises and cultural readings. Basic grammar, vocabulary, and conversation are taught in the course. Supplementary materials are used to strengthen communicative competence and cultural awareness. A variety of assessments are used to evaluate student performance.

**524 | SPANISH 2 CP**   **2 Semesters | 1 Credit | Grades 9,10,11,12**

Prerequisite: Spanish 1 CP The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. The target language is spoken in the classroom to develop the skills of comprehension and conversation Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. A variety of assessments are used to evaluate student performance.

**538 | SPANISH 2 HONORS**    **2 Semesters | 1 Credit | Grades 9,10,11,12**

Prerequisites: Final grade of 90% in Spanish 1 CP and/or teacher recommendation. The target language is spoken extensively in the classroom to develop the skills of comprehension and conversation. The rigor of this course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. A variety of assessments are used to evaluate student performance. Grade weighted upon successful completion of course.

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**534 | SPANISH 3 CP****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisite: Spanish 2 Honors/CP The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more complex grammatical structures to develop skills in writing and reading. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments.

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**539 | SPANISH 3 HONORS****2 Semesters | 1 Credit | Grades 10,11**

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Prerequisites: Final grade of 85% in Spanish 2 Honors and/or teacher recommendation. The target language is spoken exclusively in the classroom to develop the skills of comprehension and conversation. The rigor of this course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Other objectives include using more complex grammatical structures to develop skills in writing and reading. A variety of assessments are used to evaluate student performance. Grade weighted upon successful completion of course.

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**544 | SPANISH 4 CP****2 Semesters | 1 Credit | Grade 11**

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Prerequisite: Spanish 3 Honors/CP Students continuing their language study in this level should have a strong interest and motivation to increase their proficiency level. The emphasis in this course is continued development of the four language skills listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more complex grammatical structures to develop skills in writing and reading. Students study target cultures in order to demonstrate an understanding of the practices and perspectives. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments. Upon satisfactory completion, students can receive 3 college credits through Seton Hall University. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**584 | SPANISH 4 HONORS****2 Semesters | 1 Credit | Grades 11,12**

Prerequisites: Final grade of 85% in Spanish 3 Honors and/or teacher recommendation. The target language is spoken exclusively in the classroom to develop the skills of comprehension and conversation. The rigor of this course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Communicative use of the language in functional contexts is a primary goal of this course. In context students apply new vocabulary, idiomatic expressions, and grammatical structures. Upon completion of this course, students should be able to communicate on the intermediate oral proficiency level. A variety of assessments are used to evaluate student performance. Upon satisfactory completion, students can receive up to 6 college credits, 3 credits per semester, through Seton Hall University. A tuition fee applies. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines

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**555 | SPANISH 5 CP****2 Semesters | 1 Credit | Grade 12**

Prerequisite: Spanish 4 Honors/CP Students continuing their language study in this level should have a strong interest and motivation to increase their proficiency level. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more authentic literature and video in order to increase student's communicative abilities and cultural understanding. Students study target cultures in order to demonstrate an understanding of the practices and perspectives. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments. Upon satisfactory completion, students can receive 3 college credits through Seton Hall University. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**554 | SPANISH AP: LANGUAGE AND CULTURE****2 Semesters | 1 Credit | Grade 12**

Prerequisites: Final grade of 85% in Spanish 4 Honors and/or teacher recommendation. The target language is used exclusively in the classroom. The syllabus for this course has been College Board approved and students are expected to have a strong interest and motivation for language study. The AP College Board themes of beauty and aesthetics, contemporary life, families and communities, global challenges, personal and public identities, and science and technology serve as the foundation of this course. Independent research and practice are necessary in order for the students to increase their individual proficiency level and knowledge. This course continues to develop the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Sample Advanced Placement exercises and activities are used to practice, review, and expand the advanced skills of the language. Students will have the opportunity to earn college credits for the course upon taking the AP exam in May. Upon satisfactory completion, students can receive up to 6 college credits, 3 credits per semester, through Seton Hall University. A tuition fee applies. Grade weighted upon successful completion of course.

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**559 | SPANISH AP: LITERATURE AND CULTURE****2 Semesters****| 1 Credit****| Grade 12**

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Prerequisites: Final grade of 85% in Spanish 4 Honors and/or Spanish AP Language & Culture and/or teacher recommendation. The target language is used exclusively in the classroom. The syllabus for this course has been College Board approved and students are expected to have a strong interest in literature and motivation for language study. The AP College Board themes of beauty and aesthetics, contemporary life, families and communities, global challenges, personal and public identities, and science and technology serve as the foundation of this course. Independent reading and literary analysis are necessary in order for the students to increase their individual proficiency level and knowledge. This course continues to develop the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Sample Advanced Placement exercises and activities are used to practice, review, and expand the advanced skills of the language. Students will have the opportunity to earn college credits for the course upon taking the AP exam in May. Grade weighted upon successful completion of course.

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**505 | HERITAGE SPANISH 1****2 Semesters****| 1 Credit****| Grades 9,10**

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Prerequisite: Final placement in this course is determined by a placement test that focuses on students' reading, writing, listening, and speaking skills. This course is designed for students who have experience speaking Spanish in a home and/or community setting. It is designed for students to expand and build upon their Spanish language skills and to develop individual reading and writing literacy. Students will explore elements of Hispanic cultures. Students will continue to achieve their communicative competence in areas of listening, speaking, reading and writing. Instruction will be primarily in Spanish.

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**506 | HERITAGE SPANISH 2****2 Semesters****| 1 Credit****| Grades 10,11,12**

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Prerequisite: Heritage Spanish 1 or final placement in this course is determined by a placement test that focuses on students' reading, writing, listening, and speaking skills. This course is designed for students who have experience speaking Spanish in a home and/or community setting and seek to further develop academic skills in a formal setting. This course focuses on the expansion of advanced reading and writing literacy. Students will continue to achieve their communicative competence in the areas of listening, speaking, reading, and writing. Instruction will be primarily in Spanish.

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**511 | FRENCH 1 CP****2 Semesters****| 1 Credit****| Grades 9,10,11,12**

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The emphasis in this course is directed toward the four basic language skills: listening, speaking, reading, and writing. The target language is spoken in the classroom to develop comprehension and conversation. These two skills are reinforced through the use of audio, video, and technology. Reading and writing skills are developed through written exercises and cultural readings. Basic grammar, vocabulary, and conversation are taught in the course. Supplementary materials are used to strengthen communicative competence and cultural awareness. A variety of assessments are used to evaluate student performance.

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**521 | FRENCH 2 CP****2 Semesters | 1 Credit | Grades 9,10,11,12**

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Prerequisite: French 1 CP The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. The target language is spoken in the classroom to develop the skills of comprehension and conversation. Proficiency and cultural awareness is strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. A variety of assessments are used to evaluate student performance.

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**560 | FRENCH 2 HONORS****2 Semesters | 1 Credit | Grades 9,10,11,12**

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Prerequisites: Final grade of 90% in French 1 CP and/or teacher recommendation. The target language is spoken extensively in the classroom to develop the skills of comprehension and conversation. The rigor of this course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. A variety of assessments are used to evaluate student performance. Grade weighted upon successful completion of course.

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**531 | FRENCH 3 CP****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisite: French 2 Honors/CP The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more complex grammatical structures to develop skills in writing and reading. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments.

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**561 | FRENCH 3 HONORS****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisites: Final grade of 85% in French 2 Honors and/or teacher recommendation. The target language is spoken exclusively in the classroom to develop the skills of comprehension and conversation. The rigor of this course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Other objectives include using more complex grammatical structures to develop skills in writing and reading. A variety of assessments are used to evaluate student performance. Grade weighted upon successful completion of course.



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**541 | FRENCH 4 CP****2 Semesters | 1 Credit | Grades 11,12**

Prerequisite: French 3 Honors/CP Students continuing their language study in this level should have a strong interest and motivation to increase their proficiency level. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more complex grammatical structures to develop skills in writing and reading. Students study target cultures in order to demonstrate an understanding of the practices and perspectives. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments. Upon satisfactory completion, students can receive 3 college credits through Seton Hall University. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**581 | FRENCH 4 HONORS****2 Semesters | 1 Credit | Grades 11,12**

Prerequisites: Final grade of 85% in French 3 Honors and/or teacher recommendation. The target language is spoken exclusively in the classroom to develop the skills of comprehension and conversation. The rigor of this course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Communicative use of the language in functional contexts is a primary goal of this course. In context students apply new vocabulary, idiomatic expressions, and grammatical structures. Upon completion of this course, students should be able to communicate on the intermediate oral proficiency level. A variety of assessments are used to evaluate student performance. Upon satisfactory completion, students can receive up to 6 college credits, 3 credits per semester, through Seton Hall University. A tuition fee applies. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines

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**556 | FRENCH 5 CP****2 Semesters | 1 Credit | Grade 12**

Prerequisite: French 4 Honors/CP Students continuing their language study in this level should have a strong interest and motivation to increase their proficiency level. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more authentic literature and video in order to increase students' communicative abilities and cultural understanding. Students study target cultures in order to demonstrate an understanding of the practices and perspectives. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments. Upon satisfactory completion, students can receive 3 college credits through Seton Hall University. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**551 | FRENCH AP: LANGUAGE AND CULTURE****2 Semesters | 1 Credit | Grade 12**

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Prerequisites: Final grade of 85% in French 4 Honors and/or teacher recommendation. The target language is used exclusively in the classroom. The syllabus for this course has been College Board approved and students are expected to have a strong interest and motivation for language study. The AP College Board themes of beauty and aesthetics, contemporary life, families and communities, global challenges, personal and public identities, and science and technology serve as the foundation of this course. Independent research and practice are necessary in order for the students to increase their individual proficiency level and knowledge. This course continues to develop the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Sample advanced placement exercises and activities are used to practice, review, and expand the advanced skills of the language. Students will have the opportunity to earn college credits for the course upon taking the AP exam in May. Upon satisfactory completion, students can receive up to 6 college credits 3 credits per semester, through Seton Hall University. A tuition fee applies. Grade weighted upon successful completion of course.

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**513 | GERMAN 1 CP****2 Semesters | 1 Credit | Grades 9,10,11,12**

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The emphasis in this course is directed toward the four basic language skills: listening, speaking, reading, and writing. The target language is spoken in the classroom to develop comprehension and conversation. These two skills are reinforced through the use of audio, video, and technology. Reading and writing skills are developed through written exercises and cultural readings. Basic grammar, vocabulary, and conversation are taught in the course. Supplementary materials are used to strengthen communicative competence and cultural awareness. A variety of assessments are used to evaluate student performance.

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**523 | GERMAN 2 CP****2 Semesters | 1 Credit | Grades 9,10,11,12**

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Prerequisite: German 1 CP The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. The target language is spoken in the classroom to develop the skills of comprehension and conversation. Proficiency and cultural awareness is strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. A variety of assessments are used to evaluate student performance.

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**562 | GERMAN 2 HONORS****2 Semesters | 1 Credit | Grades 9,10,11,12**

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Prerequisites: Final grade of 90% in German 1 CP and/or teacher recommendation. The target language is spoken extensively in the classroom to develop the skills of comprehension and conversation. The rigor of the course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication. (interpersonal, interpretive, and presentational), various activities, and authentic materials. A variety of assessments are used to evaluate student performance. Grade weighted upon successful completion of course.

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**533 | GERMAN 3 CP****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisite: German 2 Honors/CP The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more complex grammatical structures to develop skills in writing and reading. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments.

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**563 | GERMAN 3 HONORS****2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisites: Final grade of 85% in German 2 Honors and/or teacher recommendation. The target language is spoken exclusively in the classroom to develop the skills of comprehension and conversation. The rigor of this course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Other objectives include using more complex grammatical structures to develop skills in writing and reading. A variety of assessments are used to evaluate student performance. Grade weighted upon successful completion of course.

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**543 | GERMAN 4 CP****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisite: German 3 Honors/CP Students continuing their language study in this level should have a strong interest and motivation to increase their proficiency level. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more complex grammatical structures to develop skills in writing and reading. Students study target cultures in order to demonstrate an understanding of the practices and perspectives. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments. Upon satisfactory completion, students can receive 3 college credits through Seton Hall University. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**583 | GERMAN 4 HONORS****2 Semesters | 1 Credit | Grades 11,12**

Prerequisites: Final grade of 85% in German 3 Honors and/or teacher recommendation. The target language is spoken exclusively in the classroom to develop the skills of comprehension and conversation. The rigor of this course is designed for students who demonstrate a strong interest and motivation in language study. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Communicative use of the language in functional contexts is a primary goal of this course. In context students apply new vocabulary, idiomatic expressions, and grammatical structures. Upon completion of this course, students should be able to communicate on the intermediate oral proficiency level. A variety of assessments are used to evaluate student performance. Upon satisfactory completion, students can receive up to 6 college credits, 3 credits per semester, through Seton Hall University. A tuition fee applies. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines

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**552 | GERMAN 5 CP****2 Semesters | 1 Credit | Grade 12**

Prerequisite: German 4 Honors/CP Students continuing their language study in this level should have a strong interest and motivation to increase their proficiency level. The emphasis in this course is continued development of the four language skills: listening, speaking, reading and writing. Communication in the target language is expected and the instructor will use the target language extensively to develop the skills of comprehension and conversation. Other objectives include using more authentic literature and video in order to increase students' communicative abilities and cultural understanding. Students study target cultures in order to demonstrate an understanding of the practices and perspectives. Students strengthen their language proficiency through the use of authentic materials, various activities, and assessments. Upon satisfactory completion, students can receive 3 college credits through Seton Hall University. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**553 | GERMAN AP: LANGUAGE AND CULTURE****2 Semesters | 1 Credit | Grade 12**

Prerequisites: Final grade of 85% in German 4 Honors and/or teacher recommendation. The target language is used exclusively in the classroom. The syllabus for this course has been College Board approved and students are expected to have a strong interest and motivation for language study. The AP College Board themes of beauty and aesthetics, contemporary life, families and communities, global challenges, personal and public identities, and science and technology serve as the foundation of this course. Independent research and practice are necessary in order for the students to increase their individual proficiency level and knowledge. This course continues to develop the four language skills: listening, speaking, reading and writing. Proficiency and cultural awareness are strengthened in the classroom by using the three modes of communication (interpersonal, interpretive, and presentational), various activities, and authentic materials. Sample advanced placement exercises and activities are used to practice, review, and expand the advanced skills of the language. Students will have the opportunity to earn college credits for the course upon taking the AP exam in May. Upon satisfactory completion, students can receive up to 6 college credits, 3 credits per semester, through Seton Hall University. A tuition fee applies. Grade weighted upon successful completion of course.

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**C512 | LATIN 1 CP (ONLINE)****2 Semesters | 1 Credit | Grades 9,10,11,12**

**NOTE: This course is only available in an online format through Parkland's Virtual Academy.** This course presents the phonological, grammatical, and semantic systems of Latin, the mother language of today's Romance languages (French, Spanish, Italian, Portuguese and Romanian). Instruction stresses Latin's influence upon the English language, particularly in the area of vocabulary and etymology. Roman culture and civilization, the basis of our Western Heritage, are also emphasized both by the Latin readings and by various discussion topics, such as mythology, archaeology, and history. In addition to tests, students are also evaluated on the basis of written work, oral reports, homework, class work, and class participation.

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**C522 | LATIN 2 CP (ONLINE)****2 Semesters | 1 Credit | Grades 10,11,12**

**NOTE: This course is only available in an online format through Parkland's Virtual Academy.** Prerequisite: Final grade of 70% in Latin 1 CP and/or teacher recommendation. This course is a continuation of Latin I. It is a more intensive study of the Latin language. Students will continue to expand their base of Latin grammar and to increase reading fluency. The course will emphasize Roman culture and civilization and will continue building on English vocabulary skills. Upon satisfactory completion, students can receive 3 college credits through Seton Hall University. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**516 | SIGN LANGUAGE 1 CP****2 Semesters | 1 Credit | Grades 9,10,11,12**

This beginning language course will provide an introduction to the signed alphabet and basic sign language. New Vocabulary and language patterns will be provided for expressive and receptive practice. Upon successful completion of this course, students will be able to communicate in a limited degree with the deaf and hard-of-hearing community using finger-spelling, signing and gesturing. This is also a Dual Enrollment course. Upon satisfactory completion, students can receive 3 college credits through LCCC. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**526 | SIGN LANGUAGE 2 CP****2 Semesters | 1 Credit | Grades 10,11,12**

Prerequisite: Sign Language 1 CP This course is a continuation of the Sign Language 1 course. More advanced vocabulary and expressions will be introduced and basic skills will be reinforced to produce a greater proficiency of communication. Upon successful completion of this course, students will have a solid foundation in ASL to communicate with the deaf and hard-of-hearing community by means of finger-spelling, signing, and gesturing. This is also a Dual Enrollment course. Upon satisfactory completion, students can receive 3 college credits through LCCC. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**536 | SIGN LANGUAGE 3 CP****2 Semesters | 1 Credit | Grades 11,12**

Prerequisite: Sign Language 2 CP This course will review and build upon vocabulary from Sign Language 2. Emphasis will be placed on receptive and expressive skills to produce greater proficiency in the language. Many interpreting skills will be used. Classroom interaction in Sign Language is expected. This is also a Dual Enrollment course. Upon satisfactory completion, students can receive 3 college credits through LCCC. A tuition fee applies. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**546 | SIGN LANGUAGE 4 CP****2 Semesters | 1 Credit | Grade 12**

Prerequisite: Sign Language 3 CP The purpose of this course is to enable students to further develop advanced skills in American Sign Language through a linguistic, communicative, and cultural approach to language acquisition. Emphasis is placed on receptive and expressive signing, applied grammar, cross-cultural understanding, and real-life applications.

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**590 | CHINESE 1 CP****1 Semester | 1 Credit | Grades 9,10,11,12**

This is a beginning level course that will introduce students to Mandarin Chinese. In this course, students will learn listening, speaking, reading and writing skills through activities that are designed for students who are just starting their studies of this language. Students will learn to express themselves using an ever-increasing vocabulary. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is also sprinkled throughout the course in an attempt to help the learner focus on the Chinese speaking world and its culture, people, geographical locations and histories. This course is offered for dual enrollment for 3 credits from LCCC. A tuition charge applies, and students will need to purchase their own textbook and/or supplementary resources for this course. Note that this course may not run if we have limited enrollment and/or absence of a certified Parkland teacher. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**591 | CHINESE 2 CP****1 Semester | 1 Credit | Grades 9,10,11,12**

Prerequisite: Chinese 1 CP This course builds on the listening, speaking, reading, and writing skills taught in Chinese 1. The course includes a study of the Chinese phonetic system, character writing, sentence structure, and expanded knowledge of Chinese culture. Further acquisition of language skills in listening, speaking, reading, and writing will be emphasized. This course is offered for dual enrollment for 3 credits from LCCC. A tuition charge applies, and students will need to purchase their own textbook and/or supplementary resources for this course. Note that this course may not run if we have limited enrollment and/or absence of a certified Parkland teacher. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**592 | ARABIC 1 CP****1 Semester | 1 Credit | Grades 9,10,11,12**

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This course is designed for students as an introduction to Arabic script and letter pronunciation, basic conversation skills, and gradual building of reading, writing, speaking, and listening skills at a beginning level. Aspects of Arab culture/history will also be introduced. This course is offered for dual enrollment for 3 credits from LCCC. A tuition charge applies, and students will need to purchase their own textbook and/or supplementary resources for this course. This course will only run during the first semester of the school year. Note that the availability of this course is determined by LCCC and may not run every year. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**593 | ARABIC 2 CP****1 Semester | 1 Credit | Grades 9,10,11,12**

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Prerequisite: Arabic 1 CP Arabic 2 is the continuation of Arabic 1. This course will help students to develop basic skills in aural comprehension, speaking, reading, and writing. Basic grammatical concepts will be reviewed, and more complex grammatical and sentence structures will be presented. Students will also be introduced to the cultures in Arabic-speaking countries through a variety of activities. This course is offered for dual enrollment for 3 credits from LCCC. A tuition charge applies, and students will need to purchase their own textbook and/or supplementary resources for this course. This course will only run during the first semester of the school year. Note that the availability of this course is determined by LCCC and may not run every year. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

## BUSINESS, COMPUTER & INFORMATION TECHNOLOGY

Business affects every aspect of a person’s life. When enrolling in Business Computer Information Technology (BCIT) courses, students are exposed to the dynamic world of business and become contributing members of a global society. BCIT courses will engage students in the theory of law, entrepreneurship, digital computer literacy, and web design. Additionally, the basic principles of finance, marketing, management, and accounting will promote critical thinking. As students progress through the Pathways below, they will learn more about the dynamic world of business. Have an interest in one of these areas of BCIT? If so, follow the Pathways guide when selecting your courses.

Pathway	Accounting	Finance	Entrepreneurship	Information Technology	Management	Marketing
<p><b>Consider these BCIT Elective course options for the following Career Pathway</b></p>	<p>Intro to Business (9th-12th) Accounting I (10th-12th) Accounting II (10th-12th) Accounting Honors (11th-12th)</p>	<p>Intro to Business (9th-12th) Personal Finance* (9th-12th) Investing (10th-12th)</p>	<p>Intro to Business (9th-10th) Business Management (10th-12th) Marketing (10th-12th) Entrepreneurship (11th-12th)</p>	<p><b>Information Tech</b> IT Certification Exploration (9th-12th)  <b>Computer Science</b> HTML and Web Page Design (9th-12th)</p>	<p>Intro to Business (9th-10th) Business Management (10th-12th) Sport &amp; Ent Management (10th-12th) Business Law (9th-12th) Accounting II (10th-12th) Accounting Honors (11th-12th)</p>	<p>Intro to Business (9th-12th) Marketing (10th-12th) Sports Administration (9th-12th)</p>

\*NOTE: Starting with the Class of 2028 and beyond, all students must take Personal Finance (652) OR Independent Living (839) to fulfill PDE’s mandate to complete a personal finance course.

<p><b>Additional Electives to consider</b></p>	<p>College &amp; Career Success Skills (10th-12th); Personal Keyboarding (9th-12th) Student Store (12th)</p>
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# THE 600 COURSES: BUSINESS, COMPUTER & INFORMATION TECHNOLOGY

**AP** Advanced Placement   **H** Honors   **PLTW** Project Lead The Way   **DC** Dual Credit   **AHC** Arts & Humanities Credit  
**TAC** Tech Applications Credit   **NCAA** NCAA/Clearinghouse

**600** | **INTRODUCTION TO BUSINESS** **TAC** | 1 Semester | 0.5 Credit | Grades 9,10,11,12

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Note: Successful completion of this course is a prerequisite for Entrepreneurship (649), Marketing Principles (657), and Business Management (656). This course will introduce the student to the exciting and challenging world of business. It will help students become knowledgeable consumers, well-prepared employees, and effective citizens in our economy. It will give the student a better understanding of what it will take to become a business owner as well. Topics to be addressed will include economic systems, social and ethical responsibility, entrepreneurship, human resources, business operations, and management leadership styles. Finance, marketing, risk management and insurance are all addressed as well giving the students a better understanding of how the ever-changing business world operates in a global society. It is strongly recommended for all ninth-grade students to prepare themselves for real world situations in their professional and personal endeavors.

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**634** | **COLLEGE & CAREER SUCCESS SKILLS** **TAC** | 1 Semester | 0.5 Credit | Grades 10,11,12

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This course will help to develop skills that will give students an edge on applying for college or for a job. Students will learn strategies for lifelong learning including proper note taking, and effective testing strategies. In addition, personal learning styles will be identified, and the multiple intelligence theory will be explored. Students will research a variety of careers and complete items useful in the job search process including cover letter and resume writing, interviewing techniques, and time management skills will be developed. Students will research a college of interest and learn about the application process, financial aid, and scholarships.

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**622** | **PERSONAL KEYBOARDING** **TAC** | 1 Semester | 0.5 Credit | Grades 9,10,11,12

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As our world relies more on computers to handle everyday work and leisure activities, the art of accurate keyboarding is necessary. Whether you're emailing a friend, developing a class presentation, or downloading map directions, keyboarding knowledge can make the job easier. This course is designed to develop touch-typing skills on the alphabetic and numeric keyboard. All students can benefit from this course since daily, repetitive keying will increase the speed and accuracy of both novice and experienced typists.

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**621 | IT CERTIFICATION EXPLORATION**

TAC

**1 Semester | 0.5 Credit | Grades 9,10,11,12**

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This course empowers students to explore various career paths in information technology by offering a selection of industry-recognized certifications. Students can choose from certifications such as IT Fundamentals Pro, PC Pro, Network Pro, Security Pro, Ethical Hacking, and more. With the flexibility to pursue different certifications each semester, students can tailor their learning journey to align with their interests and career goals. Additionally, students have the option to choose from four distinct pathways: Cybersecurity, Network, System Administration, and Microsoft Office Specialist (MOS) Certification. This structured approach allows for focused skill development in specific areas of IT, further enhancing their career readiness. Each certification builds on the previous one, enabling students to maximize their potential while gaining valuable skills. NOTE: As students can earn a variety of IT certifications through this course, they may register for it multiple times throughout their high school career to earn different certificates each time it's taken.

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**646 | HTML & WEB DESIGN**

TAC

**1 Semester | 0.5 Credit | Grades 9,10,11,12**

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This course combines HTML coding and web design, allowing students to build and customize websites while learning foundational coding and design skills. By integrating HTML, CSS, and coding principles into real-world projects, students gain practical, hands-on experience and create tangible results, making learning more engaging. The course culminates in a capstone project where students develop a fully functional website, building a portfolio that showcases skills valuable for future opportunities in technology and design.

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**660 | MARKETING**

TAC

**1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Introduction to Business (600). Marketing introduces students to the fundamentals of marketing and management within the hospitality and tourism industries, covering essential topics such as food service, lodging, travel, and tourism. Emphasizing real-world applications, students will develop products and promotional strategies for local businesses, gaining practical insights into marketing from both business and consumer perspectives. The course explores industry challenges, diversity, and the impact of the global market, preparing students with a solid foundation in marketing principles and their connection to the free enterprise system. Designed as a strong precursor to college-level marketing courses, Marketing provides firsthand exposure to the dynamic hospitality and tourism industries.

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**653 | SPORTS ADMINISTRATION**

TAC

**1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Sports Administration provides students with a holistic understanding of the sports industry by combining essential marketing and management concepts into one comprehensive course. This integrated approach allows students to efficiently learn about marketing functions, event planning, facility management, and ethics within a single semester. Through hands-on experiences such as guest speakers, case studies, field trips, and projects, Sports Administration offers practical insights into real-world industry operations. Students will gain valuable skills by creating products, developing promotional strategies for local businesses, and exploring marketing strategies tailored to the teenage market. This course equips students with versatile skills, preparing them for a broad range of careers in the sports and entertainment industries.

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**656 | BUSINESS MANAGEMENT****1 Semester | 0.5 Credit | Grades 10,11,12**

Prerequisite: Introduction to Business (600) This exciting, non-traditional course provides a basic foundation for individuals who are considering a career in business. Students will gain an understanding of topics such as economics, legal, and social aspects along with information on organizing, businesses, marketing products and services, financing operations, managing and developing employees, and making difficult decisions in a global competitive society. Other integral components that will be covered are organizational change, diversity in the workplace, ethics, international competition, the link between business and society, and the vital role that technology plays in the form of the Internet and E-commerce.

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**666 | BUSINESS LAW****1 Semester | 0.5 Credit | Grades 9,10,11,12**

Business Law introduces students to key legal principles that shape the business world, providing a comprehensive foundation from contract law to corporate law. The course examines the formation and enforcement of contracts, explores sales and employment law, and clarifies the rights and responsibilities of businesses and employees. Students will also learn about different business structures, from small businesses to corporations, and gain insights into financial transactions, including borrowing, secured and unsecured credit, and the relationships between creditors, debtors, and bankruptcy. This course equips students with practical knowledge of legal responsibilities and rights essential for business careers.

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**652 | PERSONAL FINANCE****1 Semester | 0.5 Credit | Grades 9,10,11,12**

NOTE: Starting with the Class of 2028 and beyond, all students must take Personal Finance (652) OR Independent Living (839) to fulfill PDE's mandate to complete a personal finance course. This course is intended to give students background in all aspects of dealing with personal finances. It provides them with the opportunity to learn how to make decisions in many key real-life situations including: home acquisition, budgeting, banking services, investment essentials, understanding taxes and credit management.

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**658 | INVESTING****1 Semester | 0.5 Credit | Grades 10,11,12**

Recommended Prerequisite: Personal Finance (652) Americans today are more responsible than ever for their financial futures. Yet, many Americans, adults, and children alike know little about the basic principles and facts of money management, saving and investing. This course introduces students to the world of investing, its benefits and risks, and the critical role it plays in fostering capital formation and job creation in our free market system.

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**649 | ENTREPRENEURSHIP****1 Semester | 0.5 Credit | Grades 11,12**

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Prerequisite: Introduction to Business (600) and Marketing Principles (657) or Business Management (656). This course will prepare students for small business ownership as well as for the workforce of the future. Seven out of ten high school students want to own and operate their own business. Throughout the semester students will learn about Entrepreneurial trends and traits, various types of business ownership, and will study successful entrepreneurs and their businesses. They will have opportunities to put the entrepreneurial process into action. Students will have the ability to pull from their knowledge of this course along with their other business courses to develop an innovative business idea and work with a team to write a Business Plan. It prepares students to carry out the entrepreneurial process and experience its spirit. Students in grades 11 and 12 can also earn 3 college credits through the University of Iowa for a tuition fee of \$150. Students do not pay tuition unless they have successfully completed the course and have earned a 70% or higher on the comprehensive exam.

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**632 | ACCOUNTING I****1 Semester | 0.5 Credit | Grades 10,11,12**

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This course will provide students with an understanding of the importance of accounting principles in both society and the business world. Accounting I covers a complete accounting cycle for a service business organized as a proprietorship. Online computer access at home is expected as students will utilize Aplia for online working papers that supplement our online textbook as well as apply accounting principles by completing a simulated accounting project.

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**633 | ACCOUNTING II****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: "C" or better in Accounting 1 (632). This course studies the accounting cycle for a merchandising business organized as a corporation. Students will apply accounting principles by completing an automated accounting simulation. Online computer access at home is expected as students will utilize Aplia for online working papers that supplement our online textbook as well as apply accounting principles by completing a simulated accounting project.

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**648 | ACCOUNTING HONORS****1 Semester | 0.5 Credit | Grades 11,12**

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This course challenges the honors student with completing both levels of accounting in one semester. The business cycle for service and merchandising businesses is learned as well as the differences in accounting for sole proprietorships, partnerships, and small corporations. Automated accounting software is used. Grade weighted upon successful completion of course.

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**654 | SCHOOL STORE PRACTICE****1 Semester | 0.5 Credit | Grade 12**








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Prerequisites: Employment application and at least three previous Business courses. Application must be picked up in the store and returned with course request form. Students get first-hand experience in the operation and management of a small retail establishment. They are involved in all aspects of running the store from promotions, inventorying, to operating a computerized register. The complete operation of a small business is studied and practiced. Evaluation is accomplished through projects as well as practical applications and written assignments.

## VISUAL ARTS

Parkland High School (PHS) offers a wide variety of elective art courses for students in grades 9-12, from novice to the more advanced art students and those who are considering future study and/or a career in the field. Areas of study include craft electives: jewelry and metals, ceramics, and traditional crafts; new media lab electives include photography and computer graphics; and fine art electives include drawing, painting, portfolio prep., AP Studio Art and AP Drawing 3 as well as the academic course, AP Art History. Most art electives are one semester while the advanced art electives, including all AP Art courses and Portfolio Prep, are full year courses. The end of the school year is culminated with the PHS Art Show and Festival of the Arts where student art created throughout the year is displayed for the entire Parkland Community.

### THE 700 COURSES: VISUAL ARTS

 Advanced Placement  Honors  Project Lead The Way  Dual Credit  Arts & Humanities Credit  
 Tech Applications Credit  NCAA/Clearinghouse

**701 | PAINTING 1**   **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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This is an introductory course in the fundamentals of painting incorporating color theory, design, application techniques, composition, and overall technique. Activities that reinforce these elements will be used throughout the course. Beginning as well as more advanced students should take this course either as an extension in further understanding color after Drawing I or as a precursor to Painting II. Instruction and demonstration will precede each painting activity. Painting media will include acrylic and watercolor and occasional demonstrations of oils or other media to broaden the student's overall understanding of painting. Specific subjects will be assigned for each project. Students may opt to take this course for Dual Enrollment and earn transferable LCCC credits. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

**702 | PAINTING 2**  **1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Grade of "B" or better in Painting 1 This course builds upon experiences from Painting 1. Design, composition and technique will be emphasized. Review of methods and techniques will precede each painting activity. Opportunities for continued painting time as well as experimentation are included. Study of specific media may include watercolor, acrylics, oils, and gouache and possible mixed media combinations. Students will be allowed more freedom of interpretation of subject matter to be used with each painting medium.

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**703 | DRAWING 1****1 Semester | 0.5 Credit | Grades 9,10,11,12**

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This is an introductory course in the fundamentals of drawing. Beginning as well as more advanced students should take this course. Design and composition principles are an integral part of the instruction. Projects will help students understand the concepts of linear perspective, spherical and cylindrical forms, value, shading, form, and positive and negative space. Instruction and demonstration will precede each activity. Projects are designed to teach students how to draw from direct observation, photographic resources and imagination. Materials will include black and white media as well as a colored pencil project that will allow students a broader choice of subject matter and introduce them to some basic color theory. Note that this course focuses on various mediums in drawing and does not include Anime and Pokemon. Students may opt to take this course for Dual Enrollment and earn 3 transferable LCCC credits. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**704 | DRAWING 2****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Grade of "B" or better in Drawing 1 This is a course that carries Drawing 1 experiences to a higher level. Exercises will include experimenting with drawing materials including mixed media. Design and composition concepts will still be emphasized as an integral part of the lessons. The possibility of materials used may include graphite pencil, charcoal, conte, metal point, colored pencil, pastels, and pen and ink. Note that this course focuses on various mediums in drawing and does not include Anime and Pokemon. Students may opt to take this course for Dual Enrollment and earn 3 transferable LCCC credits if Drawing 1 was taken for Dual Enrollment previously. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**700D | AP STUDIO ART: DRAWING 3****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisite: A grade of "A" or better in Drawing 2 and/or teacher recommendation. This course is an advanced studio class designed as an introductory college level drawing course. The AP course framework presents an inquiry-based approach to learning about drawing. Students are expected to conduct an in-depth, sustained investigation of materials, processes and ideas. The framework focuses on drawing concepts and skills emphasized within college level; art classes designed to help students become inquisitive, thoughtful artists and designers who are able to articulate information about their work. In May, students may submit portfolios to the College Board for evaluation based on specific criteria, which includes skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision. Portfolio submission will afford students the opportunity to garner college and/or art school credit. This course has a required summer assignment designed to help students prepare their portfolios needed for AP Exam submission in May of school year. Grade weighted upon successful completion of the course. The course also meets for double periods every other day for the full year.

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**706 | PORTFOLIO PREPARATION**

AHC

2 Semesters | 1 Credit | Grades 11,12

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Prerequisite: A grade of C or better in Drawing 1, Painting 1, and/or teacher recommendation. This course is designed for students who are preparing advanced level portfolio quality work in order to pursue art studies after graduation. It is expected that these students be highly motivated and committed to their art activities and production in order for them to meet the requirements of their potential college or art school choices. Sketchbook assignments outside of class are an important part of the student's development, and deadlines for this work are strictly followed. Work is reviewed through teacher guided peer critique and teacher assessment. Resulting portfolios will show a broad range of studies and pursuits using a variety of subjects and media achieved through teacher initiated projects and independent study within the course outlines. In addition, time will permit in-depth opportunities to explore single media and subject matter. Note that this course focuses on drawing, painting, and mixed media. It does not include digitally created art. The course also meets for double periods every other day for the full year.

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**700 | AP STUDIO ART: 2-D DESIGN**

AP

AHC

2 Semesters | 1 Credit | Grades 11,12

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Prerequisite: Grade of "B" or better in Drawing 1, Painting 1, and/or teacher recommendation. This course is an introductory college-level two-dimensional design course. Students refine and apply skills and ideas they develop throughout the course to produce two-dimensional art and design. Students will create a portfolio of work to demonstrate inquiry through art and their development of materials, processes, and ideas over the course of a year. Portfolios will include works of art, process documentation, and written information about the work presented. In May, students may submit their portfolios to the College Board for evaluation based on specific criteria, including: skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision. Portfolio submission will afford students the opportunity to garner college and/or art school credit. This course has a required summer assignment designed to help students prepare their portfolios need for AP Exam submission in May of school year. Grade weighted upon successful completion of course.

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**700A | 3-D ART & DESIGN AP**

AP

AHC

2 Semesters | 1 Credit | Grades 11,12

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Prerequisite: Grade of "B" or better in Ceramics 2, Jewelry and Metals 2, and/or teacher recommendation. AP 3-D Art and Design is an advanced studio course for students interested in creating three-dimensional art while developing their own artistic voice. Building on skills from Ceramics 1 and 2 and Jewelry and Metals 1 and 2, students will explore a wide range of media, including sculpture, metalwork, ceramics, fibers, and installation art. Guided by their teacher, students will engage in inquiry-based artmaking, experimenting with materials, processes, and techniques while refining their creative ideas. The course emphasizes developing a portfolio that demonstrates mastery of 3-D visual principles and material techniques across various disciplines like architecture, fashion, and design. Students will explore form and space, pushing boundaries through practice, experimentation, and revision.

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**707 | PHOTOGRAPHY 1****1 Semester | 0.5 Credit | Grades 10,11,12**

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This is a foundation course for students who have an interest in learning photography as an art form. Students will create digital images and collages in Photoshop while learning the functions of a 35mm Digital Single-Lens Reflex (SLR) camera. The history of photography will act as a catalyst for contemporary photography projects. There will be an introduction to the darkroom through basic 35mm film projects and cameraless photography techniques. Specific weekly Adobe Photoshop and Lightroom procedures will be discussed through guided resources. This will allow students to earn a Adobe Photoshop certificate and/or a Lightroom certificate through the Adobe Certificate Associate (ACA) testing program. Students may opt to take this course for Dual Enrollment and earn 3 transferable LCCC credits. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**708 | PHOTOGRAPHY 2****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Completion of Photography 1 with a grade of "B" or better. Photography 2 will focus on building image capturing skills through the use of a 35mm film camera. Traditional darkroom techniques, processing negatives, digital cameras, scanner and Photoshop/Lightroom procedures will be discussed. Students will learn to take black and white photography and digital photography to a higher creative level in Photography 2. Printing techniques such as negative printing and sabattier printing will be learned. Digital photography and Adobe Photoshop will be used to enhance images in order to create inkjet prints. Studio lighting techniques will also be introduced during this class. Establishing an overall style and aesthetics will be fostered throughout the semester.

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**709 | PHOTOGRAPHY 3****1 Semester | 0.5 Credit | Grades 11,12**

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Prerequisite: Completion of Photography 2 with a grade of "B" or better. Photography 3 will focus on new lighting techniques and incorporate the dynamics of studio and environmental portraiture. Students will be introduced to the 4X5 view camera and impact on the history of photography. Each student will focus on preparing a creative group of photographs to form their own series of images. Students will utilize scanners and Photoshop to prepare images for large-scale printing. It is helpful for students to have their own cameras for this class.

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**712 | COMPUTER ART 1****1 Semester | 0.5 Credit | Grades 10,11,12**

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This is an introductory course that focuses on using the computer and digital media as a means to create and design art projects. The course will include a variety of drawing, painting, photography, and design projects using exciting art programs through the Adobe Creative Cloud. Apple pencils and iPads are also used throughout the semester. Projects are approached from a fine art and commercial art perspective.



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**713 | COMPUTER ART 2****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Grade of “B” or better in Computer Art 1. Computer Art 2 is an advanced class that builds upon the skills and programs learned in Computer Art 1. It will also introduce students to 2D animation techniques. Additionally, students will learn new Photoshop techniques and complete large-scale graphic design and fine art projects through a creative perspective. Students will also learn Adobe Animate techniques and will create motion graphics on the Animate timeline while working with frame-by-frame animation.

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**725 | COMPUTER ANIMATION****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Grade of “B” or better in Computer Art 1 or Drawing 1. Computer Animation is an introductory course that will allow students to explore the principles of animation. A history of animation will provide a foundation to explore technological advancements in programs such as Adobe Animate, Adobe Character Animator, After Effects, and Fresco.

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**710 | ART HISTORY AP****2 Semesters | 1 Credit | Grades 10,11,12**

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This is an excellent course for the college bound student since Art History is often required or taken as an elective at the university level. At the completion of this course, students may elect to take the Advanced Placement Art History examination, which can be used at many colleges for course credit. This course provides an overview of Western Art History from its primitive beginnings to the present. Examples of units studied are Ancient Egypt, Greece and Rome, the Renaissance, European Art, Impressionism, and American Art. Emphasis will be on looking at artworks—analyzing, interpreting, and criticizing how they were created, what they mean, and understanding the time period in which they were made. Classroom activities may include discussing slides or prints of artworks, group art criticism activities, and supplemental video instruction. This course is not designed for the average high school student. Rather, it is intended for the advanced and motivated student. Grade weighted upon successful completion of course.

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**716 | CERAMICS 1****1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Ceramics 1 is a foundation course focusing on the structural techniques of hand-building, coiling, slab, pinch, and integrated with the sculptural technique of modeling. Students can expect to complete pieces utilizing these techniques centering on functional as well as non-functional concepts and finalized with various glazes and/or finishing approaches. Students may opt to take this course for Dual Enrollment and earn 3 transferable LCCC credits. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines.

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**717 | CERAMICS 2****1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Prerequisite: Grade of B or better in Ceramics 1. The skill of throwing on a potter's wheel will be the goal of student concentration in the beginning stages of Ceramics 2. All assignments will involve advanced hand-building and the potter's wheel in some fashion. Traditional pieces are to include vessels, teapots, mugs, jars, bowls, etc. Non-traditional pieces will appear sculptural and architectural in concept. Surface treatment, decorative techniques and the firing process will be highlighted.

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**718 | JEWELRY AND METALS 1****1 Semester | 0.5 Credit | Grades 10,11,12**

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Jewelry and Metals 1 is a metal working class aimed at building jewelry (functional and sculptural) and to explore the enameling process. Students will have the opportunity to design jewelry and to build that design using fabrication. A studio fee of approximately \$45 will be expected to help defray the cost of sterling silver as the main building material. Students may opt to take this course for Dual Enrollment and earn 3 transferable LCCC credits. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**734 | JEWELRY AND METALS 2****1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Grade of "B" or better in Jewelry and Metals 1. This course involves advanced techniques for hand building and lost wax casting. Advanced hand building techniques will involve multiple plate construction, surface manipulation and stone setting. The introduction to lost wax casting will center on functional as well as decorative constructions. Student emphasis will focus on the fusion of both techniques, to design and execute student work that is either functional or sculptural, and highly original and creative. A studio fee of \$45.00 is required at the beginning of the course to help defray the cost of sterling silver as the main building material.

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**719 | TRADITIONAL CRAFTS****1 Semester | 0.5 Credit | Grades 9,10,11,12**








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A sampling course designed for the student who does not wish to concentrate on a specific medium, but to experiment with a wide variety of traditional craft methods. Centering on three-dimensional design, areas of sampling may be mosaics, 3-D assemblages, sculpture, basketry, tie-dye, etc.

# MUSIC

The philosophy of the Music Department is to actively engage all students in responding creatively to life. The courses are tailored to students who have a genuine interest in music related subjects and provide students with opportunities for study of both performing and non-performing aspects of music. In addition, the courses are structured to meet the varied talents and abilities of our students.

## THE 700 COURSES: MUSIC

-  Advanced Placement
-  Honors
-  Project Lead The Way
-  Dual Credit
-  Arts & Humanities Credit
-  Tech Applications Credit
-  NCAA/Clearinghouse

**765** | **CONCERT CHOIR**  **2 Semesters** | **0.5 Credit** | **Grades 9,10**

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Prerequisite: Ability to match pitch. NOTE: This option is only available to students who also enroll in Band or Orchestra. Chorus rehearses three (3) periods per cycle. During class the student is provided an opportunity to develop the singing voice and to enhance the knowledge of music as applied to choral singing. There will be an emphasis on music literacy (including sight-singing skills) and continued development of responsible rehearsal behavior. Challenging choral literature from many historical periods and styles will be studied. Emphasis is on developing individual and ensemble musicianship skills. This group will perform in regularly scheduled concerts.

**766** | **CONCERT CHOIR**  **2 Semesters** | **0.5 Credit** | **Grades 11,12**

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Prerequisite: Ability to match pitch. NOTE: This option is only available to students who also enroll in Band or Orchestra. Chorus rehearses three (3) periods per cycle. During class the student is provided an opportunity to develop the singing voice and to enhance the knowledge of music as applied to choral singing. There will be an emphasis on music literacy (including sight-singing skills) and continued development of responsible rehearsal behavior. Challenging choral literature from many historical periods and styles will be studied. Emphasis is on developing individual and ensemble musicianship skills. This group will perform in regularly scheduled concerts.

**744** | **CONCERT CHOIR**  **2 Semesters** | **1 Credit** | **Grades 9,10**

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Prerequisite: Ability to match pitch. Chorus rehearses six periods per cycle. During class the student is provided an opportunity to develop the singing voice and to enhance the knowledge of music as applied to choral singing. There will be an emphasis on music literacy (including sight-singing skills) and continued development of responsible rehearsal behavior. Challenging choral literature from many historical periods and styles will be studied. Emphasis is on developing individual and ensemble musicianship skills. This group will perform in regularly scheduled concerts.

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**745 | CONCERT CHOIR****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisite: Ability to match pitch. Chorus rehearses six periods per cycle. During class the student is provided an opportunity to develop the singing voice and to enhance the knowledge of music as applied to choral singing. There will be an emphasis on music literacy (including sight-singing skills) and continued development of responsible rehearsal behavior. Challenging choral literature from many historical periods and styles will be studied. Emphasis is on developing individual and ensemble musicianship skills. This group will perform in regularly scheduled concerts.

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**SCH | SELECT CHOIR****2 Semesters | 1 Credit | Grades 9,10,11,12**

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This group rehearses six periods per cycle. The ensemble is comprised of soprano and alto voices. During class the student is provided an opportunity to develop the singing voice and to enhance the knowledge of music as applied to choral singing. There will be an emphasis on music literacy (including sight-singing skills) and continued development of responsible rehearsal behavior. Students will learn and perform challenging chorale literature for the soprano and alto voice. Emphasis is placed on the development of individual and ensemble musicianship skills. This group will perform in regularly scheduled concerts. Any student who wishes to be placed in Select Choir must first select the Concert Choir course. Acceptance into Select Choir will be made after a successful audition, which will occur by the end of February of the previous year. Students must enroll in Concert Choir first. After a successful audition, the student will be placed in Select Choir by the director and the student's guidance counselor

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**761 | BAND****2 Semesters | 0.5 Credit | Grades 9,10**

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NOTE: This option is only available to students who also enroll in Chorus. Band rehearses 3 times per cycle. This course involves the various members of the percussion, woodwind, and brass families used within the marching and concert bands. This course is taught through a practiced application of basic principles laid down in elementary and middle school, plus the development of these skills to a higher level of understanding and achievement. Primary performances for this ensemble are Parkland varsity football games, local/regional parades, the Winter Holiday Program, the Spring Concert, and the Parkland High School Commencement Program. All band members will perform with the marching band for the fall marching season, which includes participation in band camp, which is held in August before the school term commences.

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**762 | BAND****2 Semesters | 0.5 Credit | Grades 11,12**

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NOTE: This option is only available to students who also enroll in Chorus. Band rehearses 3 times per cycle. This course involves the various members of the percussion, woodwind, and brass families used within the marching and concert bands. This course is taught through a practiced application of basic principles laid down in elementary and middle school, plus the development of these skills to a higher level of understanding and achievement. Primary performances for this ensemble are Parkland varsity football games, local/regional parades, the Winter Holiday Program, the Spring Concert, and the Parkland High School Commencement Program. All band members will perform with the marching band for the fall marching season, which includes participation in band camp, which is held in August before the school term commences.

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**748 | BAND****2 Semesters | 1 Credit | Grades 9,10**

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Band rehearses 6 times per cycle. This course involves the various members of the percussion, woodwind, and brass families used within the marching and concert bands. The course is taught through a practiced application of basic principles laid down in elementary and middle school, plus the development of these skills to a higher level of understanding and achievement. Primary performances for this ensemble are Parkland varsity football games, local/regional parades, the Winter Holiday Program, the Spring Concert, and the Parkland High School Commencement Program. All band members will perform with the marching band for the fall marching season, which includes participation in band camp, which is held in August before the school term commences.

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**749 | BAND****2 Semesters | 1 Credit | Grades 11,12**

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Band rehearses 6 times per cycle. This course involves the various members of the percussion, woodwind, and brass families used within the marching and concert bands. The course is taught through a practiced application of basic principles laid down in elementary and middle school, plus the development of these skills to a higher level of understanding and achievement. Primary performances for this ensemble are Parkland varsity football games, local/regional parades, the Winter Holiday Program, the Spring Concert, and the Parkland High School Commencement Program. All band members will perform with the marching band for the fall marching season, which includes participation in band camp, which is held in August before the school term commences.

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**WND | WIND ENSEMBLE****1 Semester | 0.5 Credit | Grades 10,11,12**

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Wind Ensemble is a semester long course, rehearsing 6 days a cycle in the spring semester only. Students interested in performing in the Wind Ensemble must be enrolled in Concert Band and successfully pass an audition in January/February of the previous year or invitation by director. The group will be comprised of a smaller group of elite winds, brass, and percussion. Students will use the skills learned in Concert Band and expand upon these in greater detail. Advanced techniques studies include intonation, independent part playing, chamber literature, et al. Students will also be exposed to upper level repertoire and techniques. The Wind Ensemble will perform in the Spring Band Concert.

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**750 | ORCHESTRA****2 Semesters | 0.5 Credit | Grades 9,10**

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NOTE: This option is only available to students who also enroll in Chorus or Band. This class is offered for violin, viola, cello, and bass students for 3 periods per cycle, as a continuation for students with previous orchestral experience. Educational emphasis is placed on the advancement of instrumental technique, further development of music reading and comprehension skills, independent musicianship, style, and a deeper understanding of orchestral literature. The Orchestra will perform in the Winter and Spring Concerts.

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**780 | ORCHESTRA****2 Semesters | 0.5 Credit | Grades 11,12**

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NOTE: This option is only available to students who also enroll in Chorus or Band. This class is offered for violin, viola, cello, and bass students for 3 periods per cycle, as a continuation for students with previous orchestral experience. Educational emphasis is placed on the advancement of instrumental technique, further development of music reading and comprehension skills, independent musicianship, style, and a deeper understanding of orchestral literature. The Orchestra will perform in the Winter and Spring Concerts.

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**752 | ORCHESTRA****2 Semesters | 1 Credit | Grades 9,10**

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This course is offered for violin, viola, cello, and bass students for 6 periods per cycle, as an opportunity to study advanced small group ensemble music and symphonic orchestral literature. Symphonic Orchestra offers students great variety and challenge in musical performance with a full orchestra. Students will continue their development of instrumental technique, music reading and comprehension skills, independent musicianship, style, and a deeper understanding of small group ensemble music and orchestral literature with opportunities to perform in quartets and select groups. Symphonic Orchestra will perform in the Winter and Spring Concerts.

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**781 | ORCHESTRA****2 Semesters | 1 Credit | Grades 11,12**

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This course is offered for violin, viola, cello, and bass students for 6 periods per cycle, as an opportunity to study advanced small group ensemble music and symphonic orchestral literature. Symphonic Orchestra offers students great variety and challenge in musical performance with a full orchestra. Students will continue their development of instrumental technique, music reading and comprehension skills, independent musicianship, style, and a deeper understanding of small group ensemble music and orchestral literature with opportunities to perform in quartets and select groups. Symphonic Orchestra will perform in the Winter and Spring Concerts.

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**HCF | HONORS CONCERT CHOIR (1 CREDIT OPTION)****2 Semesters | 1 Credit | Grades 10,11,12**

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Admission to this class is by audition only. Students selected for the Honors Concert Choir program will meet all of the requirements of the Concert Choir course. Additionally, students will be an active member of the Parkland High School Chorale and perform with the Chorale at community events. Rehearsals take place after school at the discretion of the director. Successful audition is required each year of participation. Any student who wishes to be placed in the Honors Concert Choir must first select the non-Honors Concert Choir course. After a successful audition for Honors Concert Choir, the student will be placed in the Honors Concert Choir. The grade will be weighted upon successful completion of course and will be issued one time only.

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**HCH | HONORS CONCERT CHOIR (1/2 CREDIT OPTION)**      **1 Semester | 0.5 Credit | Grades 10,11,12**

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Admission to this class is by audition only. This option is only available to students who also enroll in Band or Orchestra. Students selected for the Honors Concert Choir (1/2 Credit Option) program will meet all of the requirements of the Concert Choir course. Additionally, students will be an active member of the Parkland High School Chorale and perform with the Chorale at community events. Rehearsals take place after school at the discretion of the director. Successful audition is required each year of participation. In order to take this class and receive an Honors credit, the student is required to schedule either regular .5 credit Band or .5 credit Orchestra, or the student is required to schedule .5 credit Honors Band or .5 credit Honors Orchestra. Any student who wishes to be placed in the Honors Concert Choir must first select the non-Honors Concert Choir course. After a successful audition for Honors Concert Choir, the student will be placed in the Honors Choir by the director and the student's guidance counselor. The grade will be weighted upon successful completion of course and will be issued one time only.

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**HBF | HONORS BAND (1 CREDIT OPTION)**      **2 Semesters | 1 Credit | Grades 9,10,11,12**

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Admission to this class is by audition only. Students selected for the Honors Band program will meet all of the requirements of the Band course. Additionally, students will perform in the Parkland High School Jazz Band ensemble and attend area jazz festivals and other community events. Students who do not play a jazz band instrument may satisfy the requirements of the course by participating in a small chamber ensemble such as flute choir, clarinet choir, and/or woodwind quintet. Rehearsals take place before and after school at the discretion of the director. Once a student has successfully auditioned for the Honors Band program, he/she need not re-audition in subsequent years, providing he/she continues to perform with the Jazz Band. Any student not previously a member of the Honors Band who wishes to be placed in the Honors Band must first select the non-Honors Band course. After a successful audition for Honors Band, the student will be placed in the Honors Band by the director and the student's guidance counselor. The grade is weighted upon successful completion of course and will be issued one time only.

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**HBH | HONORS BAND (1/2 CREDIT OPTION)**      **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Admission to this class is by audition only. This option is available only to students who also enroll in Concert Choir. This class meets three times per cycle for band rehearsal. Students selected for the Honors Band (1/2 Credit Option) will meet all of the requirements of the Band course. Additionally, students will perform in the Parkland High School Jazz Band ensemble and attend area jazz festivals and other community events. Students who do not play a jazz band instrument may satisfy the requirements of the course by participating in a small chamber ensemble such as flute choir, clarinet choir, and/or woodwind quintet. Rehearsals take place before and after school at the discretion of the director. Once a student has successfully auditioned for the e Honors Band program, he/she need not re-audition in subsequent years, providing he/she continues to perform with the Jazz Band. In order to take this class and receive an Honors credit, the student is required to schedule either regular .5 credit Concert Choir or .5 Honors Concert Choir. Any student not previously a member of the Honors Band who wishes to be placed in the Honors Band must first select the non-Honors Band course. After a successful audition for Honors Band, the student Page | 70 will be placed in the Honors Band by the director and the student's guidance counselor. The grade is weighted upon successful completion of course and will be issued one time only.

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**HOF | HONORS ORCHESTRA (1 CREDIT OPTION)****2 Semesters | 1 Credit | Grades 9,10,11,12**

Prerequisite: Audition with instructor and at least 1 credit in Orchestra (except 9th grade students). Students selected for the Honors Orchestra program will meet all of the requirements of the Orchestra course. Additionally, students will be active members of Parkland High School's Strolling Strings and Chamber Ensembles and perform at community events. Rehearsals take place weekly after school. Once a student has successfully auditioned for the Honors Orchestra program, he/she need not re-audition in subsequent years, providing he/she continues to perform with the Strolling Strings. All students auditioning must take the non-honors orchestra course. After a successful audition for Strolling Strings, the student will be placed in the Honors Orchestra by the director and the student's guidance counselor. The grade is weighted upon successful completion of course and will be issued one time only, which will be in the junior year.

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**HOH | HONORS ORCHESTRA (1/2 CREDIT OPTION)****1 Semester | 0.5 Credit | Grades 9,10,11,12**

Admission to this class is by audition only. this option is available only to students who also enroll in Concert Choir. Students meet three times per cycle for orchestra rehearsal. Students selected for the Honors Orchestra program will meet all of the requirements of the Orchestra course. Additionally, students will be an active member of Parkland High School's Strolling Strings and Chamber Ensembles and perform at community events. Rehearsals take place after school at the discretion of the director. Once a student has successfully auditioned for the Honors Orchestra program, he/she need not re-audition in subsequent years, providing he/she continues to perform with the Strolling Strings. In order to take this class and receive an Honors credit, the student is required to schedule either regular .5 credit in Concert Choir or Honors Concert Choir. After a successful audition for Strolling Strings, the student will be placed in the Honors Orchestra by the director and the student's guidance counselor. The grade is weighted upon successful completion of the course and will be issued one time only, which will occur in junior year.

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**771 | INTRO. TO STRINGS**AHC**1 Semester | 0.5 Credit | Grades 9,10**

This semester long course, which meets daily for a single period in the first semester, is designed for students who are interested in learning about the violin, viola, cello, and/or string bass. Students will learn note reading, basic fundamentals and techniques involved in sound production, and perform basic repertoire. No previous music experience is required but is certainly beneficial. All instruments and supplementary materials will be provided by the school.

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**772 | INTERMEDIATE STRINGS**AHC**1 Semester | 0.5 Credit | Grades 9,10**

Prerequisite: Any of the following: 1- Intro. to Strings (771) or the equivalent, OR 2- basic, practical knowledge reading and performing written music notation (conventional or lead sheet) on some orchestra instrument (violin, viola, cello, string bass etc.), OR 3- Teacher recommendation for students who can demonstrate proficiency on an orchestra instrument. This semester long course, which meets daily for a single period in the second semester, will build on students' individual skills with an orchestra instrument while preparing them for participation in an orchestra. Students will enhance their note reading, basic fundamentals and techniques involved in sound production, and perform basic repertoire. As a result of participation in this course, students will be prepared for participation in the PHS Orchestra the following school year. All instruments and supplementary materials will be provided by the school.



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**753 | PIANO 1**   **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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This class is designed for the beginning student who wishes to learn the fundamentals of keyboarding. The student will demonstrate adequate motor skill development through the performance of a variety of repertoire. The Yamaha Electronic Keyboard lab facilities will be used for both individual and group instruction. Students who have had more than one year of piano instruction should not take this course.

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**754 | PIANO 2**   **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Prerequisite: Piano 1 or the equivalent of one year of private lessons. This course is a continuation of Piano 1. The student will continue to progress through more difficult repertoire. Pianos are available for student practice. Students with 1½ or more years of piano study should not take this course.

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**756 | MUSIC THEORY 1**   **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Recommended Prerequisites: Performing ability on an instrument or vocal music reading ability. Students become familiar with musical terminology, learn how to write musical manuscript, listen to and construct diatonic intervals, listen to and construct all of the major and relative minor scale forms, and listen to and construct the primary and secondary triads. Aural skills will be developed by singing with syllables and the use of rhythmic and melodic dictation. Part writing will be introduced and applied in writing exercises.

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**757 | MUSIC THEORY 2**   **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Recommended Prerequisites: Successful completion of Music Theory 1, or the equivalent skills, as approved by the instructor. Students continue their study of harmony using primary and secondary chords in root position and inversions, writing chord progressions in simple keyboard and four-part (SATB) textures. Non-harmonic tones and simple melodic form will be introduced, and students will use these, and other skills, to analyze music. Aural skills/ear training continues with singing (using solfege syllables) major and minor melodies, canons, and simple four-part chorales, as well as simple melodic dictation.

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**741 | MUSIC THEORY AP**    **2 Semesters | 1 Credit | Grades 10,11,12**

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Prerequisite: Music Theory 2 Students will be required to read, notate, compose, perform and listen to music. The further development of aural skills (sight-singing, dictation) is a primary objective, as well as continuing the study of harmony to include modes, secondary dominants, modulation, and more expressive formal structures. Students will listen to musical works attentively and analytically and will create music of their own to demonstrate concepts presented. Performance using singing and students' primary performance media will also be a part of the class. The College Board AP Program course outline will be followed. Grade weighted upon successful completion of course.

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**759 | MUSIC PRODUCTION 1**

AHC

TAC

1 Semester

0.5 Credit

Grades 10,11,12

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Prerequisite: Any of the following: 1- Music Theory 1 or the equivalent, OR 2- basic, practical knowledge reading and performing written music notation (conventional or lead sheet) on some instrument (piano, guitar, trumpet, etc.), OR 3- Teacher recommendation for students who can demonstrate an alternative mode of musically expressing themselves (i.e. vocalist, rapper, creator/producer beats/mashups using software, etc.). This semester long course will introduce students to some of the most commonly used software and hardware tools for producing music for the marketplace, including Digital Audio Workstation (DAW) software, audio and MIDI recording and editing, electronic keyboard, audio interface, DSP effects (reverb, EQ, etc.), microphone technique, and music notation software for “lead sheets”. The class will stress application and creative content, using a series of projects to give students exposure to music production tasks such as recording various kinds of signals (live instruments and MIDI), using electronic instruments, basic song arranging, and equipment configuration. The ideal student for this course has interest in recording music of all kinds, possesses some experience playing in either a popular (rock, jazz, etc.) or classical tradition, and is comfortable reading either chord charts or conventional music notation. The student should discuss this class with a member of the music faculty.

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**740 | MUSIC LISTENING AND LITERATURE HONORS**

H

AHC

TAC

2 Semesters

1 Credit

Grades 11,12

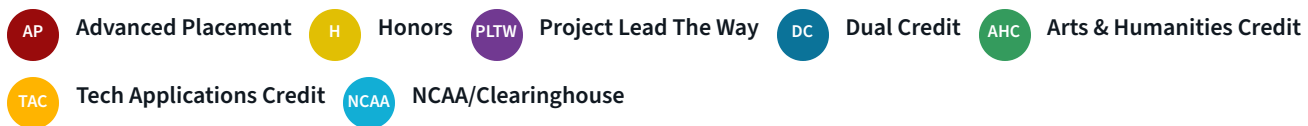
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Prerequisites: Grade of “B” or better in English and strong interest and theory background in subject area. Music Listening and Literature Honors is an intensive course in developing perceptive listening of music literature through study of structure and style of musical composition, score reading, social and historical context of music making. Outside listening assignments are required, as are attendance at live concerts. General objectives of the course are: 1-To develop the art of perceptive listening in the study of music literature. 2-To develop individual thinking on a more advanced and independent level. 3-To develop a deeper understanding of structure and style in musical composition, 4-To develop an understanding of the social and historical context of music making. Grade weighted upon successful completion of course.

## FAMILY & CONSUMER SCIENCE

The mission of Parkland High School's Family and Consumer Sciences department is to strengthen individuals and families for lifelong participation in the home, community, and society by teaching technical and social skills with a practical application resulting in rational thinking. Focusing on planning, management, and decision-making, our Family and Consumer Sciences program addresses current issues of human development and the family, home management and family economics, foods and nutrition, clothing and textiles, and housing and living environments.

### THE 800 COURSES: FAMILY & CONSUMER SCIENCE



#### 831 | **FASHION AND WARDROBE CONSTRUCTION** AHC TAC 1 Semester | 0.5 Credit | Grades 9,10,11,12

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This course will explore the world of fashion by investigating fibers and textiles as well as constructing wearable garments or accessories. Clothing styles, fashion trends, and ways to enhance personal appearance will be explored. Instruction includes consumer hints for pattern and fabric choices, reading instructions with patterns, preparing the fabric and sewing from a commercial pattern. Students are required to purchase their own patterns, fabric and thread for personal projects. Several types of sewing machines (traditional, computerized, and serger) are available for student use to construct the projects. During the first 6-day cycle of class, parents and students must sign and return the materials contract because students are required to purchase supplies to participate in this course.

#### 846 | **FASHION DESIGN/MERCHANDISING** AHC TAC 1 Semester | 0.5 Credit | Grades 9,10,11,12

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The world of fashion is a glamorous one. The fast pace of fashion offers challenges to the person who is creative, flexible, and observant. In this course, students will explore careers available in the area of fashion design and merchandising. Multiple student projects incorporating current fashion and fashion history will help students develop a better understanding of fashion designers and designing. Various individual projects for garment design are completed. A group project in fashion merchandising will allow students to understand the business side of the fashion world.

#### 832 | **CREATIVE CRAFTS** AHC TAC 1 Semester | 0.5 Credit | Grades 9,10,11,12

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This craft program is designed to allow each student to experience many different projects through various mediums such as wood, paper, fabrics, felt, yarn, and thread. Throughout the semester students will complete teacher-directed and guest crafter-directed projects. Each student is required to create a minimum of two independent projects that he/she selects, purchases, and brings to class to complete. All projects are graded on a rubric. During the first 6-day cycle of class, parents and students must sign and return the materials contract because students are required to purchase supplies to participate in this course.

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**833 | INTERIOR DESIGN**

AHC

TAC

1 Semester

0.5 Credit

Grades 9,10,11,12

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This course is designed for students interested in learning how to organize their present and future living space. Students will study housing designs, the elements and principles of design, and learn how to develop floor plans and elevations. Computer technology is incorporated into the course to create floor plans, elevations and 3-D visualizations of rooms. Students will learn to organize and design a small space area such as a college dormitory room, plan for the equipment and supplies needed for the area and create a budget to understand the cost involved.

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**834 | BASIC FOODS**

AHC

1 Semester

0.5 Credit

Grades 9,10,11,12

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Prepare delicious foods, build your nutrition knowledge, learn about food safety, develop consumer knowledge, understand basic cooking terms in recipes, and taste test new foods in this introductory food course. Foods are prepared in a creative way following the USDA Dietary Guidelines. Special emphasis is given to the use of small electrical equipment used in the kitchen. Students will begin to learn the basics of preparing balanced and appetizing meals. Students will develop skills that will help prepare them to work competently with foods at home with the family. Basic Foods must be completed with a grade of “C” or better before enrolling in American or International Foods.

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**836 | AMERICAN FOODS**

AHC

1 Semester

0.5 Credit

Grades 9,10,11,12

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Prerequisite: Grade of C or better in Basic Foods or in LCTI’s Culinary Program. Learn how to plan and organize meals for different occasions, making cooking more efficient and enjoyable. Taste and understand the diverse flavors from various regions across the United States, and discover the rich culinary traditions and recipes of the Pennsylvania Dutch community. By the end of this course, you’ll have a newfound appreciation for American Food, along with practical skills and tasty recipes to enjoy!

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**837 | INTERNATIONAL FOODS**

AHC

1 Semester

0.5 Credit

Grades 9,10,11,12

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Prerequisite: Grade of C or better in Basic Foods or in LCTI’s Culinary Program. This course introduces you to the art of using spices, the variety of breads, and the deliciousness of Italian and Chinese cuisines. You’ll also undertake a hands-on project where you select a country of your choice, cook traditional recipes, and taste your international creations. Get ready to enhance your cooking skills and savor a world of diverse and exciting flavors!

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**838 | NUTRITION FOR FITNESS**

AHC

1 Semester

0.5 Credit

Grades 9,10,11,12

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Recommended prerequisite: Successful completion of Basic Foods (834). This course explores the vital role of nutrition in enhancing overall fitness and well-being. We’ll dive into the six major nutrients—carbohydrates, proteins, fats, vitamins, minerals, and water—and their impact on physical performance, mental clarity, and social health. Through interactive lectures, group discussions, and practical meal planning, students will learn how to optimize their diet to support their fitness goals and promote a balanced lifestyle. By the end of the course, participants will understand how to make informed nutritional choices that benefit their body, mind, and social interactions, fostering a comprehensive approach to health and wellness.

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**839 | INDEPENDENT LIVING**

AHC

**1 Semester | 0.5 Credit | Grades 9,10,11,12**

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NOTE: Starting with the Class of 2028 and beyond, all students must take Personal Finance (652) OR Independent Living (839) to fulfill PDE's mandate to complete a personal finance course. Independent Living is a course designed to give students a realistic view of life after high school and to explore issues related to survival in the adult world. Students will examine the processes of formulating goals and understanding their values in order to make decisions for everyday life. Units studied include housing, credit, budgeting and job seeking skills. These learning competencies will be accomplished through individual and group projects, computer technology, and simulated experiences. This course is recommended for juniors and seniors.

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**841 | PARENTING**

AHC

**1 Semester | 0.5 Credit | Grades 9,10,11,12**

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This course investigates parenthood as a possible life goal and examines reasons for having or not having children. Emphasis is placed on pre-natal health, postpartum care and baby's development during the first two years of life. Instructional techniques include observations, video case studies and interactions that simulate real life situations. By wearing the "Empathy Belly" during class, males and females experience the physical conditions of a full-term pregnancy. Through the computerized "Think It Over" project, students develop their skills needed to care for a new baby. During the first 6-day cycle of class, students and parents must sign the permission contract for "Baby Think It Over" and return it to the teacher in order to participate in the course. "Baby Think It Over" is a required project for this course.

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**842 | CHILD DEVELOPMENT**

AHC

**1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Students who desire to know more about how children grow and develop will gain skills for working with preschool children in this course. During the semester, the students will learn theory, and be immersed in projects, observations, a field trip, and participation in a four-week Nursery School Laboratory. The Nursery School will be held in the specially designed facility in the high school. Students can further their work with preschool-aged children in the Child Development Laboratory course.

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**843 | CHILD DEVELOPMENT LABORATORY**

AHC

**1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Prerequisite: Grade of "C" or better in Child Development This course is designed as a follow up study to the Child Development Course. It is offered second semester to all students who want the experience of actually working in a nursery school pro. The Parkland nursery school laboratory is a specially designed facility located within the high school building. The nursery school operates three days per week for twelve weeks during the second semester. Students will have the responsibility of planning activities for the laboratory, participating as a preschool teacher, and interacting positively with the children. This course is recommended to all students who are considering a career in which preschool aged children are involved.

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Prerequisite: Grade of B or better in Child Development and Child Development Laboratory and teacher recommendation. This course is designed for the student who has completed both the Child Development and Child Development Laboratory courses. It is tailored for students who are seriously interested in the organization and management of a preschool program and who may be contemplating a career in a childcare-related field or in an elementary school setting. Children's physical, emotional, social and intellectual needs are studied through child observation and continuing to participate as a preschool teacher. Exhibiting patience and flexibility, the student will guide children in educational activities. Special areas of study include career preparation through creating a portfolio, creating and presenting developmentally appropriate learning activities for children, and handling challenging situations with children. The culminating class project is planning and participating in the annual closing program where children and teens work together to present finger plays and songs on the PHS stage.

## TECHNOLOGY & ENGINEERING

Technology is part of everyone’s world. Some people think technology is a series of abstract concepts and devices understood by only a few. Nothing could be further from the truth. Technology is human innovation in action. People re-design or “engineer” the natural world to fit their needs or wants. Technology and Engineering Education is the study of this human adaptive process through a laboratory-centered, hands-on and minds-on, activity-based approach. In doing so, we employ math, science and technology principles and evaluate their resulting impacts. A quick look at the Parkland’s Technology and Engineering Department’s course descriptions will reveal these principles and career exploration opportunities for future engineers, engineering technicians, architects, etc.

These are some of the experiences that students will gain through Parkland’s Technology and Engineering program:

- Designing, developing, and utilizing technological systems
- Open-ended, problem-based design activities
- Applying technological knowledge to real world experiences
- Invention and other topics dealing with human innovation
- Working individually as well as in teams to solve problems

## PROJECT LEAD THE WAY

Project Lead the Way (PLTW) provides students with rigorous and innovative Science, Technology, Engineering, and Mathematics (STEM) education curricular programs at the high school level. Developed by PLTW teachers, university educators, engineering professionals, and school administrators, this transformational program promotes high levels of critical thinking, creativity, innovation and real-world problem-solving skills in students. The curriculum, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor and discipline of studies in specific STEM related fields prior to entering college.

All PLTW courses employ the use of a Learning Management System along with traditional instruction. This simply means that the courses are a blend of internet delivered curriculum and teacher facilitated instruction and activities. These courses, however, are not self-paced. Experiments, classroom assignments, homework, and various computer files are submitted and received electronically in the form of Microsoft WORD, EXCEL, and/or POWER POINT files. We strongly suggest that students who are interested in PLTW have good file management skills and are also able to access the internet from home.

Parkland High School offers three PLTW programs, including PLTW Computer Science, PLTW Biomedical Science, and PLTW Engineering. These courses are offered at the Honors or AP levels as indicated within the course titles. Below are the PLTW pathways for each program that show the sequence that students should follow when registering for these courses:

<b>Project Lead the Way: Computer Science</b> <b>Suggested Sequence (Computer Science Essentials- .5 Credit, ½ Year Course, Weighted Grade; All Other Courses- 1 Credit, Full Year Courses, Weighted Grades)</b>			
<b>9th Grade</b> Foundation Course (1/2 year)  (980) Computer Science Essentials Honors	<b>10th Grade</b> Foundation Course  (981) Computer Science Principles AP	<b>11th Grade</b> Foundation Course  (982) Computer Science- A AP	<b>12th Grade</b> Capstone Course  (983) Cybersecurity Honors

**Project Lead the Way: Biomedical Science**  
**Suggested Sequence (1 Credit, Full Year Courses, Weighted Grades)**

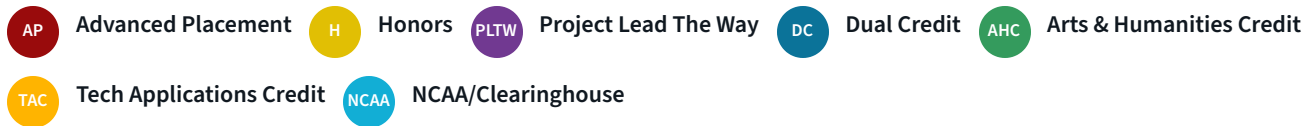
<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
Foundation Course  (941) Principles of Biomedical Science Honors	Foundation Course  (942) Human Body Systems Honors	Foundation Course  (943) Medical Interventions Honors	Capstone Course  (944) Biomedical Innovation Honors

**Project Lead the Way: Engineering**  
**Suggested Sequence (1 Credit, Full Year Courses, Weighted Grades)**

<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
Foundation Course  Math Prereq: Completion of Algebra 1 with a high “B” or better; “B” or better in all other Algebra courses	Foundation Course  Math Prereq: Grade of “B” or better in all Algebra courses taken  Math Co-Req or Prereq: Geometry	Specialization Courses  Math Prereq: Geometry and a grade of “B” or better in all Algebra courses taken	Capstone Course  Math Prereq: “B” or better in Geometry  Recommended Math Co-Req: Precalculus or Calculus
(991) Intro to Engineering Design Honors (See Math Prereq above)	(992) Principles of Engineering Honors (Additional Prereq: “C” or better in 991)  <i>Students may choose a specialty course from the next section (to the right under 11th grade) if schedule permits</i>	(993) Computer Integrated Mfg. Honors-offered again in 2023- 2024 (Additional Prereq: “C” or better in 991)  (994) Digital Electronics Honors (Additional Prereq: “C” or better in 991)  (997) Aerospace Engineering Honors – offered in 2022-2023 (Additional Prereq: “C” or better in 991 and 992)  (998) Civil Eng. and Architecture Honors- offered again in 2023- 2024 (Additional Prereq: “C” or better in 991 or 902- Residential Architecture)	(995) Engineering Design & Development Honors (Additional Prereqs: 991, 992, and either 993, 994, 997, or 998 completed with a “B” or better)  <i>Students may choose a specialty course from the previous section (to the left) if schedule permits</i>



## THE 900 COURSES: TECHNOLOGY & ENGINEERING



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### 901 | **TECH DRAWING & CAD** 1 Semester | 0.5 Credit | Grades 9,10,11,12

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Students should not take this course if they plan to take Introduction to Engineering Design (#991). Students will take a varied look into the many facets of technical and computer-aided design (CAD). This course will give students broad-based exposure to skills that will help them become future designers in various fields. Activities include exercises in technical sketching, drawing geometry, multi-view projection, and 3-dimensional representation through computer-aided design as well as traditional drawing methods. After completing this course, a variety of advanced courses may be selected.

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### 902 | **RESIDENTIAL ARCHITECTURE** 1 Semester | 0.5 Credit | Grades 10,11,12

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Prerequisite: Technical Drawing and CAD or Intro. To Engineering Design (PLTW). This course is a broad description of the architecture and construction of homes in our region. Students are given limited square footage constraints and a building lot to creatively design a functional, yet aesthetic home. They are asked to produce a floor plan, scaled model, and various sketches of their creation. Topics of study include interior home layout, structural concerns, site considerations, cost factors, home styles, human factors, drawing and model-making.

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### 903 | **ADVANCED ARCHITECTURE** 1 Semester | 0.5 Credit | Grades 10,11,12

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Prerequisite: Residential Architecture (902). This course expands upon concepts covered in 902. A similar problem-solving design approach will be employed. Expanded and new topics include structural details, beam and loading calculations, interior design, elevations, foundation systems, and alternative materials. Students will be asked to complete a fully workable set of plans using 3-D computer modeling software utilized by architectural design professionals.

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### 906 | **3-D DESIGN & MODELING** 1 Semester | 0.5 Credit | Grades 10,11,12

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Prerequisite: Technical Drawing & CAD (901) or Intro. to Engineering Design (PLTW) (991). This course expands upon the concepts and skills taught in Technical Drawing & CAD (901). 3D AutoCAD software will be used to apply geometric primitives with Boolean operators to create designs from scratch. These designs will then be used to create virtual models and prototypes. Finally, the additive manufacturing process of 3-D printing will be used to create actual models of the objects you designed to check for accuracy and function. Students should leave this course with an understanding of 3-D printing and its uses in industry.

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**911 | PRODUCTION MATERIALS & PROCESSES**  **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Prerequisite: Intro to Drafting, Design, and CADD or Intro to Engineering Design (PLTW) Did you ever wonder how cars, roller blades, mag wheels and other products are manufactured? Through computer technologies, students will explore Robotics, Computer Numerical Control and Computer Design/Manufacturing processes. Gain hands-on exposure to a variety of manufacturing materials used in today's world. Students will construct projects using a design process in this hands-on course.

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**913 | MANUFACTURING SYSTEMS**  **1 Semester | 0.5 Credit | Grades 10,11,12**

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Prerequisite: Production Materials & Processes Use your skills from course #911 in combination with CNC, Robotics, and Quality Control to set up and manufacture products in a cooperative learning environment. This course will offer advanced topics extending beyond the scope of course #911 and is currently implementing a Science, Technology, Engineering and Math (STEM) Grant in Guitar Manufacturing. The National Science Foundation STEM Guitar Project provides innovative manufacturing techniques in combination with the science, math and engineering principles involved with a solid body electric guitar. There is an approximate \$175.00 lab fee for the course and the student will design, wire, manufacture, and complete his/her own electric guitar.

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**916 | BASIC ELECTRONICS**  **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Recommended Prerequisite: Successful completion of Algebra 1 This project-based course focuses on how electronics affects our lives and also on our dependence upon its constant development. Electricity drives all of the modern technology that we use at home and in school. Students will gain a better understanding of how electricity and electronic circuits work through lab experiments as well as through computer simulations and other instructional media.

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**918 | TRANSPORTATION AND ENERGY TECHNOLOGY**   
**1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Prerequisite: Technical Drawing and CAD or Intro to Engineering Design (PLTW) In this course, students use the technological method to design and build models of transportation and energy systems. Creating working models of planes, boats, racecars and rockets enable students to apply math, science, and technology concepts as they compete to engineer the best possible system.

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**909 | INNOVATION AND INVENTION**  **1 Semester | 0.5 Credit | Grades 9,10,11,12**

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Prerequisite: Technical Drawing and CAD or Intro to Engineering Design (PLTW) Students learn the Creative Problems Solving (CPS) method used in many of today's competitive companies and organizations. The application of CPS techniques, along with machines, materials, and information resources, will result in the processes of invention and innovation to solve various technological problems. Students will invent new games and toys and will produce a prototype of their invention.

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**980 | COMPUTER SCIENCE ESSENTIALS HONORS****1 Semester | 0.5 Credit | Grades 9,10,11,12**

Prerequisite: Successful completion of Algebra 1. In this introductory course of the PLTW Computer Science program, students learn fundamental computer science concepts using MIT App Inventor and Python. The first unit of the course utilizes MIT App Inventor to create basic apps that rely on the concepts of event-driven programming, branching and iteration, variables, and abstraction. The second unit of the course builds on previous experiences with MIT App Inventor. Students will modify apps to exchange data over the Web and create a crowdsourcing app. Students will also discuss ethical, safe behavior and cybersecurity concepts related to the Internet. Additionally, students will learn how to program in Python by creating simulations of games. Grade weighted upon successful completion of course.

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**981 | COMPUTER SCIENCE PRINCIPLES AP****2 Semesters | 1 Credit | Grades 10,11,12**

Prerequisite: Computer Science Essentials Honors (980) This course aims to develop computational thinking, to generate excitement about the field of computing, and to introduce computational tools that foster creativity. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. This course is endorsed by the College Board, giving student the opportunity to take the Computer Science Principles (CSP) AP exam for college credit. NOTE: Students may take this course concurrently with AP Comp Sci A (982) or Cybersecurity (983). Grade weighted upon successful completion of course.

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**982 | COMPUTER SCIENCE A- AP****2 Semesters | 1 Credit | Grades 10,11,12**

Prerequisite: Computer Science Essentials Honors (980) This course teaches students Java and authentic Android App development. Students will receive a primer in the basics of Java programming language and object-oriented programming using Eclipse and Android Studio. Students will be able to incorporate their own code into fully functioning apps. Students will also design and implement apps that incorporate user interface elements, Google's Android libraries, and the use of back-end databases. Students will also learn game development using the LibGDX game development framework. The culminating project consists of students creating their own fully functioning app. This course aligns with the College Board's AP Computer Science- A course, and students will have the option to take the AP exam at the end of this course. NOTE: Students may take this course concurrently with AP Comp Sci Prin (981) or Cybersecurity (983). Grade weighted upon successful completion of course.

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**983 | CYBERSECURITY HONORS****2 Semesters | 1 Credit | Grades 10,11,12**

Prerequisites: Successful completion of Computer Science Essentials Honors (980). This course exposes high school students to the ever growing and far reaching field of cybersecurity through problem-based learning, where students role-play as cybersecurity experts and train as cybersecurity experts do. It also connects to the National Cybersecurity Workforce Framework (also known as the NICE Framework or NCWF), which incorporates many of the big ideas and learning objectives covered in AP Computer Science Principles and AP Computer Science A. The course gives students a broad exposure to the many aspects of digital and information security while encouraging socially responsible choices and ethical behavior. It inspires algorithmic thinking, computational thinking, and “outside-the-box” thinking. Students will also explore the many educational and career paths available to cyburity experts, as well as other careers that comprise the field of information security. NOTE: Students may take this course concurrently with AP Comp Sci Prin (981) or AP Comp Sci A (982) Grade weighted upon successful completion of course.

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**941 | PRINCIPLES OF BIOMEDICAL SCIENCE HONORS****2 Semesters | 1 Credit | Grades 9,10**

Prerequisite: Concurrently taking Honors Biology (424) or full completion of Biology (421) with a “C” or better. This is the introductory course of the PLTW Biomedical Science program. Students will explore concepts of biology and medicine to provide foundational knowledge and skills in fields such as biology, anatomy & physiology, genetics, microbiology, and epidemiology, as well as engage students in how this content can be applied to clinical settings, patient/doctor relationships, emergency scenarios, and research processes. Students will also have the opportunity to design their own experiments to solve medical-focused problems presented to them. This course follows a rigorous pace requiring critical thinking and metacognition skills. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines

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**942 | HUMAN BODY SYSTEMS (HBS) HONORS****2 Semesters | 1 Credit | Grades 10,11**

Prerequisite: Grade of “C” or better in Principles of Biomedical Science Honors (941). NOTE: Only 11th and 12th grade students may double-up in HBS (942) and MI (943). The HBS course provides foundational knowledge and skills in anatomy and physiology, clinical medicine, and laboratory research. Students explore science in action and build tissues and organs using clay on a skeletal Maniken® throughout the year. Students experience real-world scenarios and cases to see medicine in action as they diagnose, and provide treatment and rehabilitation to patients at an outpatient center,keep clients safe and healthy on adventure medicine trips in remote locations, and work in a research center to design laboratory investigations to explore development and aging. Grade weighted upon successful completion of course.As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines

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**943 | MEDICAL INTERVENTIONS (MI) HONORS****2 Semesters | 1 Credit | Grades 11,12**

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Prerequisite: Grade of “C” or better in Human Body Systems Honors (942). NOTE: Only 11th and 12th grade students may double-up in HBS (942) and MI (943). In Medical Interventions, students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection, screen and evaluate DNA, evaluate cancer treatment options, and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education

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**944 | BIOMEDICAL INNOVATION HONORS****2 Semesters | 1 Credit | Grade 12**

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Prerequisite: Grade of “C” or better in all previous Biomedical courses, including Principles of Biomedical Science Honors (941), Human Body Systems Honors (942), and Medical Interventions Honors (943). In this final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. Students will complete a Capstone Project, which is an independent, innovative project that focuses on and attempts to solve a real-world medical problem geared to their specific interests. Grade weighted upon successful completion of course.

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**991 | INTRODUCTION TO ENGINEERING DESIGN HONORS****2 Semesters | 1 Credit | Grades 9,10,11,12**

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Math Prerequisites: Completion of Algebra 1 with a high “B” or better; “B” or better in all other Algebra courses. This is the first course in the Project Lead the Way Engineering sequence. IED is an introductory look into the design and creation of modern products. Students develop an understanding of a 6-step engineering design process and how it may be used for invention and innovation of everyday products. Blueprint reading, sketching for design, Computer Aided Design, Mathematical and Geometric relationships, visual and functional analysis, teamwork and presentation skills are some of the unit topics covered in this course. Additionally, a parametric modeling software is employed to create 3-D computer models of mechanical products and to analyze their physical properties. Students who complete the course and the national exam with high achievement are eligible to receive college credit from the Rochester Institute of Technology and several other colleges for a fee. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines

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## 992 | PRINCIPLES OF ENGINEERING HONORS



2 Semesters | 1 Credit | Grades 10,11,12

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Math Prerequisite: Currently taking or previously completed Geometry and a grade of “B” or better in Algebra 1 and all other Algebra courses taken at the high school level. Additional Prerequisite: Grade of “C” or better in Intro to Engineering Design Honors (991). This is the second course in the Project Lead the Way program. The main purpose of this course is to experience, through theory and hands-on problem-solving activities, what engineering is all about and to answer the question: “Is a career in engineering or engineering technology for me?” By exploring various technology systems and manufacturing processes, students learn how engineers and technicians use math, science and technological resources in an engineering problem solving process to benefit people. Units of study include: mechanisms, fluid dynamics, electrical and control systems, statics, material properties, and kinematics. Students who complete the course and the national exam with high achievement are eligible to receive college credit from the Rochester Institute of Technology and several other colleges for a fee. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines

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## 993 | COMPUTER INTEGRATED MANUFACTURING HONORS



2 Semesters | 1 Credit | Grades 10,11,12

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Math Prerequisite: Currently taking or previously completed Geometry and a grade of “B” or better in all Algebra courses taken at the high school level. Additional Prerequisite: Grade of “C” or better in Intro to Engineering Design Honors (991). The purpose of this course is to teach the fundamentals of computerized manufacturing technology. It builds on the solid modeling skills developed in the 991 IED course. Students use 3-D computer software to solve design problems. They assess their solutions through mass property analysis (the relationship of design, function and materials), modify their designs, and use prototyping equipment to produce 3-D models. The course includes the following concepts: Computer modeling with 3-D software for property analysis; Computer Numerical Control (CNC); Computer-Aided Manufacturing (CAM); Rapid Prototyping; Robotics; Flexible Manufacturing Systems; Programmable Logic Control; CIM Cell Construction. Students who complete the course and the national exam with high achievement are eligible to receive college credits from the Rochester Institute of Technology and several other colleges for a fee. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines

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## 994 | DIGITAL ELECTRONICS HONORS



2 Semesters | 1 Credit | Grades 10,11,12

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Math Prerequisite: Currently taking or previously completed Geometry and a grade of B or better in all Algebra courses taken at the high school level. Additional Prerequisite: Grade of C or better in Intro to Engineering Design Honors (991) This is a course in applied logic as it is used in electronic circuits and devices. Computer simulation software, bread boarding and actual wiring is used to design and test digital circuitry. This course requires the student to have a solid background in Algebra. The rules, laws and theorems of Boolean algebra and truth tables will be used to manipulate and simplify logic expressions. Some topics include: Basic Electron Theory, Simple Circuits, Ohm’s Law, Capacitance, Frequency, Number Systems, Gates, combinational Circuit Design, Binary Addition, Flip-Flops, Shift Registers and Counters, Families and Specifications, and Microprocessors. Students who complete the course and the national exam with high achievement are eligible to receive college credit from the Rochester Institute of Technology and several other colleges for a fee. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines

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**997 | AEROSPACE ENGINEERING HONORS****2 Semesters****| 1 Credit****| Grades 10,12**

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Math Prerequisite: Currently taking or previously completed Geometry and a grade of “B” or better in all Algebra courses taken at the high school level. Additional Prerequisite: Grade of “C” or better in Intro to Engineering Design Honors (991) and in Principles of Engineering Honors (992). Students are introduced to the world of aeronautics, flight, and engineering through PLTW activity and problem-based learning by exploring the world of aerospace engineering. Students will engage in lessons involving aerospace information systems, astronautics, rocketry, propulsion, principles of aeronautics and more. The course of study includes History of Flight, Aerodynamics, and Aerodynamics Testing, Flight Systems, Astronautics, Space Life Systems, Aerospace Materials, and Systems Engineering. One of the programmed activities asks students to design and test several airfoils, then use a wind tunnel to better understand the airfoils relationship to lift, and ultimately to flight. Grade weighted upon successful completion of course.

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**998 | CIVIL ENGINEERING AND ARCHITECTURE HONORS****2 Semesters****| 1 Credit****| Grades 10,11,12**

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Math Prerequisite: Currently taking or previously completed Geometry and a grade of “B” or better in all Algebra courses taken at the high school level. Additional Prerequisite: Grade of “C” or better in Intro to Engineering Design Honors (991) or in Residential Architecture (902). This overview course emphasizes the inter-relationship and mutual dependence of the civil engineering and architecture fields. Students use state-of-the-art software to solve real problems and apply knowledge to hands-on projects and activities. For example, students will experience the responsibilities of architects and civil engineers by developing and implementing plans for a playground/park or vacation home. By the end of the course, students will be able to present a comprehensive plan including three-dimensional renderings of buildings, building improvements, zoning and ordinance constraints, infrastructure requirements, and other essential project documentation. Students who complete the course and the national exam with high achievement are eligible to receive college credit from the Rochester Institute of Technology and several other colleges for a fee. Grade weighted upon successful completion of course. As an Honors level, dual-credit course, this class will receive AP (5.0) weight in your GPA, adhering to Pennsylvania Department of Education’s guidelines

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**995 | PLTW CAPSTONE HONORS****2 Semesters****| 1 Credit****| Grades 11,12**

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Math Prerequisite “B” or better in Geometry. It is recommended that students concurrently enroll in Precalculus or Calculus. Additional Prerequisite: Grade of “B” or better in two or more of the following specialization courses- In Computer Science: 981,982, 983, and in Engineering: 992, 993, 994, 997, or 998. Note that the Biomedical Science Program has its own Capstone Course, 944. In this open-ended research course, students collaborate in teams to design and develop a unique solution to a well-defined problem. Each team leverages the skills and interests of its members to research, select, and justify their chosen problem, ultimately broadening their skill sets and learning from one another. Teams define design requirements, explore multiple solutions, and test or model their chosen prototype, all while refining their organizational, communication, and problem-solving abilities. At the course’s conclusion, teams showcase their solutions to an external panel, demonstrating their achievements and the skills they’ve developed along the way.

## OTHER OFFERINGS

### COURSES

-  Advanced Placement  Honors  Project Lead The Way  Dual Credit  Arts & Humanities Credit
-  Tech Applications Credit  NCAA/Clearinghouse

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**961 | ELEMENTARY TEACHER AIDE PROGRAM (ETAP)**  **1 Semester | 1 Credit | Grade 12**

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This one semester program is designed for senior students who are seriously considering a career in elementary education or special education. The students will travel to an elementary school and serve in the capacity of a teacher's aide in a classroom. High school and elementary faculty jointly supervise students. Students participating in the program must dress in business casual attire.

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**9800 | DIVERSIFIED CAREER OCCUPATIONS (DCO)** **2 Semesters | Grades 11,12**

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Students may enroll in DCO during the junior and senior year. Students who are in good standing academically and on track for graduation may be released from school for half days to work. The employer is required to provide students with job training and skills by following an Occupational Training Plan in cooperation with LCTI. LCTI provides a certified, professional school-to-career coordinator who is responsible to monitor job-site placements. Weekly competency-based instruction takes place at PHS with the LCTI coordinator. Students are formally evaluated by both the LCTI coordinator and the employer each marking period.

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**9900 | EMERGING HEALTH PROFESSIONS PROGRAM**   **2 Semesters | Grade 12**

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The Allied Health Professions Program, approved by PDE and offered through LCTI, Penn State University, and Lehigh Valley Hospital and Health Network, provides highly motivated high school seniors with an opportunity to experience a variety of health care careers. While taking Penn State courses for college credit, students spend a large part of their time three days per week rotating among the various departments in the hospital. Students have the opportunity to work and interact with staff from all departments of the hospital, including critical care units, radiology, respiratory care, pharmacy, physical therapy, clinical laboratories, emergency unit, medical and surgical units, general medicine and more. The classroom portion of the program provides students with instruction in a variety of patient care skills and hospital procedures to enable them to participate in patient care activities during the clinical portion of the program. In addition to these basic skills, students are given an overview of the health care profession, different health care systems, health insurance, and other health related issues. Interested students should see their guidance counselor for more information and registration. Grade weighted upon successful completion of course.



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**9747 | PRIVATE PILOT FLIGHT THEORY (AIRPLANE)****1 Semester | 1 Credit | Grade 12**

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Interested in a career in aviation? Then this is the course for you! Private Pilot Flight Theory is an introductory dual enrollment course through LCCC designed to help students work towards earning their Federal Aviation Administration (FAA) Private Pilot Certificate. Study of the following topics within the FAA approved ground/flight school syllabus includes introductory aerodynamics, meteorology, federal regulations, air traffic control, national airspace system, navigation for Visual Flight Rules flight, use of single-pilot resource management tools, introduction to aircraft systems and aircraft performance. Instruction in a flight training device is also available. Upon successful completion of this course, students will have the necessary skills for success on the FAA written exam for the Private Pilot Certificate, airplane single engine land. Please note: Students can earn 1.0 Parkland elective credit in addition to 3.0 LCCC credits. Students and their families are responsible for all tuition, fees, and transportation to and from this course. Tuition as of the 2023-2024 school year was \$165/three credits but is subject to change. Additional fees may apply. The course is offered in the evening for approximately 15 weeks in the fall semester and again in the spring semester at LCCC's Campus Airport Site located at Lehigh Valley International Airport, 600 Hayden Circle, Allentown, PA 18103. Interested seniors should register for this course during the course registration process and must also register for the course through LCCC's website prior to the start of the fall and spring semesters. As a CP level, dual-credit course, this class will receive Honors (4.5) weight in your GPA, adhering to Pennsylvania Department of Education's guidelines.

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**626 | CAREER EXPLORATIONS****1 Semester | 0.5 Credit**

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NOTE: Students complete this course online and are not scheduled to take a live course during the school day. Through the process of self-exploration and career planning, students will learn how to match personal needs and expectations with satisfying career options. Students will learn self-assessment skills, research major and career alternatives, and make decisions based upon sound factual information, utilizing a variety of resources. Students will complete an online course and a digital portfolio during this self-reflection of interests using tools designed in Xello. Completion of this course will be determined when all online modules are complete. This course is offered pass/fail.

## LCTI

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 9-12** 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 extracurricular 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 coursework 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 I	Algebra I	Principles of Scientific Inquiry	American Studies I	
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	Environmental Science		
	LCCC Academic Courses			

## LEHIGH CAREER & TECHNICAL INSTITUTE ACADEMIC CENTER COURSE SCHEDULE 2025-2026

Grades	Semester I	Semester II
9	Math	Math
	Science	Science
	ELA I	ELA I
	American Studies I	American Studies I
10	Math	Math
	Science	Science
	ELA II	ELA II
	American Studies II	American Studies II
11	Math	Math
	Science	Science
	ELA III	ELA III
	*World Cultures or *Wellness/Fitness	*World Cultures or *Wellness/Fitness

12	ELA IV	ELA IV
	American Government/Civics/Economics	American Government/Civics/Economics
	Wellness & Fitness	Wellness & Fitness
	Math or Science	Math or Science

\*Semester Course

## 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 retaken. 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 students' senior year; 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.

### AMERICAN STUDIES II

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, and 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 & Technical Labs. Students will be assessed formally and informally to determine mastery of the content for the duration of the academic year.

### 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 postsecondary 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 available.

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 Certipoint. 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)**

**Emerging Digital Media:** Content is king and students in our Emerging Digital Media program are future kingmakers. They learn about the creative and technical processes that drive media production for a host of digital platforms. Students explore photography, videography, podcasting and more while mastering a variety of concepts, software and skills. Students can earn Adobe Certified Associate credentials. **(POS)**

## **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. CIT challenges students to develop meaningful business solutions through computer programming in Visual Basic, C+, C#, and Java. Students learn to use data in order to produce information that moves organizations forward and solves problems.\*This program participates in the IT Academy\* **(POS)**

**Computer & Networking Technology:** Students are prepared for advanced network 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 in the IT Academy\* **(POS)**

**Marketing & Entrepreneurship:** 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 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, multi-media 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 in the IT Academy\* **(POS)**

## **ENGINEERING & ADVANCED MANUFACTURING**

**Automated Industrial Technologies:** 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:** 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)**

## **HEALTH AND HUMAN SERVICES**

**Animal Sciences:** The Animal Sciences program provides high school seniors with the opportunity to explore a variety of veterinary and animal-centric careers in a professional setting while taking Lehigh Carbon Community College science courses for college credit. In a typical school week, students spend one half day immersed in the program curriculum at LCTI, two half days in dual enrollment courses at LCCC and two half days shadowing professionals or participating in other activities at Lehigh Valley Zoo and local veterinary clinics. Successful participants complete the program with at least seven readily-transferable college credits, plus industry-recognized credentials. **This program is only available to senior students. (POS)**

**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 Childhood Education:** Students who enroll in this program prepare for careers as caretakers and teachers for young children. As students move through the program curriculum, they will: deliver quality child care that meets youngsters' physical needs and supports their development; collaborate with peers to create safe, engaging play environments for young children; lead fun, educational activities for preschool kids in an on-site child care center. **(POS)**

**Emergency Health Services:** Students who enroll in this program prepare for careers as first responders and more. As students move through the program curriculum, they will: master CPR and other first-aid while earning emergency medical services certifications; train with an ambulance simulator, medical manikins and other high-tech equipment; collaborate with other future first responders and health care providers during simulated emergencies. **(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 throughout 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 care professionals as they work with patients. Also, students have the opportunity to meet various health career professionals during presentations within 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)**

**Future Educators:** This dual-enrollment program is designed for 12<sup>th</sup> graders who aspire to be educators. It gives students a head start on college while exposing them to a variety of education careers. Students job shadow or train with teachers at LCTI and other Lehigh County schools. They also earn seven credits by taking Foundations in Education, Introduction to Special Education and Careers in Education courses at Lehigh Carbon Community College. **This program is only available to senior students. (POS)**

**Health & Medical Sciences:** Health care is among the nation's fastest growing industries and offers a broad range of professional opportunities. In our Health & Medical Sciences 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)**

**Protective Services:** This program prepares students to apply technical knowledge and skills required to perform entry-level duties in law enforcement, firefighting, EMT and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection, especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of math, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication. **(POS)**

**Teacher Education:** Teachers shape the future one child at a time. In our Teacher Education program, students study how teachers create and manage healthy learning environments for K-12 children. As they explore a variety of careers in education, students learn to lead fun, educational activities for elementary, middle and high school students. **(POS)**

**Veterinary Technology:** Students who enroll in this program prepare for careers in animal care and veterinary medicine. As students move through the program curriculum, they will: care for gerbils, guinea pigs, and rabbits while studying animal anatomy; assist with veterinary

procedures and grooming for staff members' dogs and cats; examine animals for behavior and symptoms that could indicate illness or injury. **(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 allows 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)**

**Building Trades:** 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 & 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 & 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, bearings 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 & 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 & Heating:** In this high priority occupation program, Students will learn the basic to the advanced skills of Plumbing & Pipe Fitting. Repairing and installation of 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, hydraulics, hydrostatics and drive systems. Students will learn skills that involve welding, cutting with a torch, cylinder honing and boring. **(POS)**

## OTHER PROGRAM OPTIONS

**Service Occupations Cluster:** Five curricular areas are offered in this program: Auto Specialization Technology, Building Trades Maintenance, Food Services, Indoor/Outdoor Maintenance, and Supply Chain Management & Logistics 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.

### **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** Students in 11<sup>th</sup> and 12<sup>th</sup> grade may participate in a business match program that allows them

**Education** 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 credit course at Lehigh Carbon Community College (LCCC) costs about half the regular tuition rate and less than a fourth of the cost for a comparable credit course 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 testing can be found on [lccc.edu](http://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.

Lehigh Career & Technical Institute has a policy not to discriminate on the basis of race, color, national origin, sex, disability, or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. Inquiries may be directed to LCTI’s Title IX and Section 504 Coordinator for students at 4500 Education Park Drive, Schnecksville PA, 18078 or 610-799-1357 (title9@lcti.org) or LCTI’s Compliance Officer for personnel at 610-799-1385 (title9@lcti.org).