

# **PALISADES HIGH SCHOOL CURRICULUM GUIDE 2023-2024**



Revised (1-30-2023)

**It is the policy of the Palisades School District not to discriminate on the basis of age, color, creed, handicap, national origin, race or sex in activities and programs under its sponsorship as required by Title IX of the Education Amendments of 1972. This applies to application and selection for admission to all courses by students.**

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## REQUIREMENTS FOR GRADUATION

Graduates must meet all graduation criteria described below:

Present a portfolio which meets district standards. Students may receive up to 1.0 credit (.25/year) for successfully meeting the portfolio criteria. However, this credit cannot substitute any of the courses which constitute the 24.5 credits outlined above. Please note students do receive a grade for their portfolio and it is calculated into their class rank and GPA.

<b>Subject</b>	<b>PHS Programming</b>	<b>Technical School</b>
<b>English</b>	4.0 credits	4.0 credits
<b>Math</b>	4.0 credits	3.0 credits
<b>Science</b>	4.0 credits (Biology, Chemistry, Physics)	3.0 credits
<b>Additional math or Science</b>	--	1.0 Math or Science
<b>Social Studies</b>	4.0 credits	4.0 credits
<b>Wellness/Fitness</b>	1.5 credits PE .5 credit Health	.5 credits PE .5 credit Health
<b>Electives</b>	Min. 6.5 credits which must include the required elective - Financial Lit (.5 credit)	Min. 8.5 credits which must include the required elective - Financial Lit (.5 credit)
<b>Other criteria to meet graduation</b>	<ul style="list-style-type: none"> <li>● Complete senior project</li> <li>● Senior portfolio presentation</li> <li>● Act 158 (2023 &amp; later)</li> </ul>	<ul style="list-style-type: none"> <li>● Complete senior project</li> <li>● Senior portfolio presentation</li> <li>● Act 158 (2023 &amp; later)</li> </ul>



## **SPECIAL INFORMATION FOR COURSE SELECTION**

### **COURSE REGISTRATION PROCESS**

During the month of January/February each student will meet with his/her counselor for the purpose of developing next year's program of study. At that time, the student and his/her counselor will utilize the following information in selecting courses for next year:

1. The student's stated career and educational plans/goals.
2. The student's academic achievement thus far.
3. Course and grouping recommendations from the curricular departments.
4. The graduation requirements and what the student needs to graduate.
5. The maximum effective use by the students of the four-period school day and of their remaining school years.

Any questions or concerns about course registration or course scheduling should be referred to the student's counselor.

### **CHOOSING COURSE LEVELS**

In the areas of Social Studies and English, students will select levels of courses according to the following guidelines:

Level One (1):

Reading, Math, or writing skills are at proficient or advanced level and current performance in subject area.

Level Two (2):

Reading, Math or Writing skills are below proficient level and current performance in subject area.

Advanced Placement:

- Completion of [AP Registration Form](#) (online)
- Plans to take AP Exam
- A or B in previous or designated level one or AP course in the subject area
- Demonstrated writing ability
- Completion of any required summer reading/project/writing

## **COURSE FEES – SAFETY AND MATERIALS**

Because of the nature of specific courses offered at Palisades High School, students will incur expenses above and beyond the basic course costs of texts, supplies, and materials. For example, students are required to purchase materials for projects made in shop/lab which become their personal property upon completion; students are expected to purchase calculators for use in science and math courses, and to pay for extraordinary expenses for advanced projects, driver training, advanced placement test fees or those associated with the preparation of a personal portfolio for art school. Any questions regarding materials costs/course fees may be directed to subject-area department heads.

## WEIGHTED COURSES - GRADE POINT AVERAGE – CLASS RANK

The Palisades School Board authorizes a system for calculating grade point average based upon credits attempted and grades received for students in grades 9 through 12. Further, the Board authorizes a system of weighted class ranking based upon credits attempted, weighted course multipliers and grades received for students in grades 9 through 12. Class rank is computed through the addition of weighted course points earned for all courses attempted in grades 9 through 12. Weighted course points are determined by multiplying the numerical value of the final grade, times the course credit, times the weighted course multiplier. In each grade the student accumulating the highest number of weighted course points are ranked number one. Weighted course points are cumulative from year to year in grades 9 through 12.

DEPARTMENT	WEIGHT 8	WEIGHT 7	WEIGHT 6	WEIGHT 5
<b>Art &amp; Engineering Design</b>	AP Studio Art	None	Robotics I, II; Architectural Design I, II; Electrical Engineering Design	Drawing & Painting I, II; Graphic Communications; Studio Art; 3-D Design & Sculpture I, II, III; Intro to Engineering; Mechanical Engineering Design
<b>Business Technology</b>	AP Computer Science Principles	None	TV/Video II, III; Computer Science I; Entrepreneurship; Accounting II	Accounting I; Business Concepts; TV/Video I; Financial Literacy; Financial Literacy Online; Multimedia Communication; Marketing; MOOC; Business Seminar
<b>English</b>	AP Language & Communications (11); AP Literature & Composition (12)	None	English 9-1, 10-1, 11-1, 12-1; English Online 11-1, 12-1; English Blended 10; Journalism II	Advanced Reading Seminar, Creative Writing; English 9-2, 10-2, 11-2, 12-2; SAT Reading/Writing Prep; SAT Reading/Writing Prep Online; Journalism I, Effective Communications, Education Pathway Seminar
<b>Math</b>	AP Calculus; AP Statistics; AP Computer Science A	Advanced Algebra/Trig (H); Algebra II (H)	Algebra I (Level 1); Geometry (Level 1); Algebra II (Level 1); Advanced Algebra/Trig.(Level 1); Pre-Calculus; Calculus,Intro to Statistics; Intro to Statistics Online	Geometry (Level 2); Algebra I-A; Algebra I-B; Algebra II-2; Algebra III;; SAT Math Prep
<b>Music</b>	None	None	None	Jazz; PACT; PACT Online; Madrigals; Concert Band; Concert Choir; Digital Music; Musical Theater Workshop; Strings; Guitar I, II

<b>Science</b>	AP Biology; AP Chemistry; AP Physics 1	None	Anatomy/Physiology I/II; Biology (Level 1); Chemistry I, II; Chemistry (Blended); Physics I, II,	Active Physics; Applied Chemistry; Biology (Level 2); Earth and Space Science; Natural/Environmental Science; Applied Physics (Sports or Transportation); Medical Career Pathway Seminar
<b>Social Studies</b>	AP US History; AP European History	None	Global Perspectives I, II (Level 1); Cultural Diversity and Conflict Resolution; Cult. Div & Conf. Res. Online; Government & Development of Public Policy; Modern World History (Level 1); US & World II & III (Level 1); US & World III online (Level 1); Racism and Genocide; Non-Western Histories and Cultures	Sports in American Society; Cultural Diversity (Level 2); Economics; Economics Online; Global Perspectives I, II (Level 2); Modern World History (Level 2); US & World II & III (Level 2); US & World III Online (Level 2)
<b>Special Education</b>	None	None	Gifted Independent Study; Gifted Seminar I, II, III	Math 9-12; English 9-12 Reading 9-12, Social Studies 9-12, Science 9-12, Study Skills
<b>Wellness &amp; Fitness</b>	None	None	None	Driver Education; Health; Health Online; PE I, II; Team Sports; Group Fitness; Lifetime Fitness; Aerobics; Personal Conditioning; Driver Ed. Online; PE Online
<b>World Languages</b>	AP French; AP German; AP Spanish	None	French III, IV; German III, IV; Spanish III, IV; Less Commonly Taught Languages	French I, II; German I, II; Spanish I, II; Global Issues Seminar
<b>Online/Cyber Academy</b>	None	None	Apex courses approved through PHS	Educere courses approved through PHS
<b>College</b>	Dual enrollment taught at PHS or at the UBCTS, Scholars program courses	None	None	None
<b>UBCTS</b>	None	None	Level II, Level III	Level I

## DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes enrolling at an NCAA Division I school need to meet the following academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

### Core-Course Requirement

Complete 16 core courses in the following areas:

<b>ENGLISH</b>	<b>MATH</b> (Algebra I or higher)	<b>NATURAL/ PHYSICAL SCIENCE</b> (Including one year of lab, if offered)	<b>ADDITIONAL</b> (English, math or natural/physical science)	<b>SOCIAL SCIENCE</b>	<b>ADDITIONAL COURSES</b> (Any area listed to the left, foreign language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

### FULL QUALIFIER

- Complete 16 core courses.
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - Seven of the 10 core courses must be in English, math or natural/physical science.
- Earn a core-course GPA of at least 2.300.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

#### Full Qualifier

College-bound student-athletes may practice, compete and receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division I school.

#### Academic Redshirt

College-bound student-athletes may receive an athletics scholarship during their first year of full-time enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

#### Nonqualifier

College-bound student-athletes will not be able to practice, compete or receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division I school.

#### International Students

Please review the [international initial-eligibility flyer](#) for information and academic requirements specific to international student-athletes.

Click [here](#) for Division II academic requirements.

### ACADEMIC REDSHIRT

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.



## DIVISION II ACADEMIC REQUIREMENTS

College-bound student-athletes enrolling at an NCAA Division II school need to meet the following academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

### Core-Course Requirement

Complete 16 core courses in the following areas:

<p><b>ENGLISH</b></p>	<p><b>MATH</b> (Algebra I or higher)</p>	<p><b>NATURAL/ PHYSICAL SCIENCE</b> (Including one year of lab, if offered)</p>	<p><b>ADDITIONAL</b> (English, math or natural/physical science)</p>	<p><b>SOCIAL SCIENCE</b></p>	<p><b>ADDITIONAL COURSES</b> (Any area listed to the left, foreign language or comparative religion/philosophy)</p>
<p><b>3 years</b></p>	<p><b>2 years</b></p>	<p><b>2 years</b></p>	<p><b>3 year</b></p>	<p><b>2 years</b></p>	<p><b>4 years</b></p>

### FULL QUALIFIER

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.200.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division II full qualifier sliding scale (see back page).
- Graduate high school.

### PARTIAL QUALIFIER

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division II partial qualifier sliding scale (see back page).
- Graduate high school.

### Full Qualifier

College-bound student-athletes may practice, compete and receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division II school.

### Partial Qualifier

College-bound student-athletes may receive an athletics scholarship during their first year of enrollment and may practice during their first year of full-time enrollment at a Division II school, but may NOT compete.

### Nonqualifier

College-bound student-athletes will not be able to practice, compete or receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division II school.

### International Students

Please review the [international initial-eligibility flyer](#) for information and academic requirements specific to international student-athletes.

Click [here](#) for Division I academic requirements.



## PROGRAMS OF STUDY

Quality education should help every student acquire the knowledge, skills, and attitudes necessary to become self-supporting members of society. This goal can be achieved either by preparing students for direct job-entry after graduation or by post-graduate study and eventual entry into the job market. To this end the Board of School Directors has approved College Preparatory and Technical School programs of study.

Students will be required to select and follow a prescribed program of studies. The specific course content of these programs has been designed to meet each student's individual academic needs. ***The minimum course load for all students in grades 9 through 12 is six core courses in each year (three core courses each semester), plus additional elective courses that are required to meet the graduation requirements.*** With guidance from home and school, each student will identify a program which is best suited for him/her.

### **COLLEGE PREPARATORY PROGRAM:**

The College Preparatory Program is designed for students planning to attend a 2-year or 4-year college or university following high school. Students are required to carry core academic courses in addition to electives.

### **COLLEGE COURSES WHILE IN HIGH SCHOOL:**

Palisades High School may award high school credit for college courses taken in grades 9-12 at an approved degree-granting college or university provided the student completes and secures permission through a "Application to Receive High School Credit for College Course" form PRIOR to the start of the college course and submits an official college transcript at the conclusion of the course. Students seeking this opportunity outside of the Dual Enrollment and High School Scholars programs should understand that the grade awarded by the college will be reported on the high school transcript but will not be calculated into grade point average and rank in class. Students and their parents are responsible for all costs incurred (tuition, transportation, books and materials, etc.). Interested students should discuss this opportunity with their counselors. Students must complete an "Application to Receive High School Credit for College Course" PRIOR to registering for the course.

### **TECHNICAL SCHOOL:**

The Upper Bucks County Technical School is an extension of Palisades High School and offers additional opportunities for vocational, technical or occupational training. These educational programs are available to any student in grades 9, 10, 11, and 12. The Course offering book from the Upper Bucks County Technical School will further explain articulation agreements that most programs have with post-secondary institutions. You may obtain college credits for high school work that is done at the technical school. Many courses also carry National Certification credentials for students who qualify. Priority placement will be given to upperclassmen. The technical school programs prepare students for a 2-year, 4-year and/or immediate employment upon graduation.

## ONLINE COURSES & PALISADES CYBER ACADEMY

\*Courses titled “online” are offered completely online, with support provided as needed by the course instructor and/or in the cyber center. Courses titled “blended” are those in which students meet some days of the academic cycle in the classroom with their course instructor, but are not required to meet in the classroom on other days. When a Palisades course is not available, a class offered through a third party vendor, either Apex or Educere, will be assigned.

The Palisades Cyber Academy is a fully accredited subsidiary of Palisades School District. The courses and learning options are aligned with PA standards and are the same courses that have been reviewed and approved by the Palisades School Board of Directors. To continue our tradition and value for community education, whenever possible our PCA online classes are instructed by Palisades’ teachers who hold Pennsylvania teaching certification and are highly qualified in Pennsylvania. The Palisades School District provides all of the software and resources needed by students of PCA. More information regarding the Palisades Cyber program can be found at this [link](#).

***For more information, please contact our PHS Cyber Dean:***

- Mrs. Carole Lee Deemer: [cdeemer@palisadessd.org](mailto:cdeemer@palisadessd.org) or call her at (610)847-5131 Ext: 2346

## GRADE LEVEL PROGRAMS

<b>FRESHMAN PROGRAM</b>	
Subject Area	Grade 9
<b>ENGLISH</b>	English 9
<b>MATHEMATICS</b>	(See Recommended Course Sequence in Math Section) Algebra I-A, Algebra I-B, Algebra 1-1, Geometry 1, Honors Algebra II, (Teacher Recommendation Only)
<b>SCIENCE</b>	Biology – Level 1 or 2
<b>SOCIAL STUDIES</b>	U.S. & the World II – Level 1 or 2
<b>WELLNESS and FITNESS</b>	Physical Education I
<b>ELECTIVES</b>	3.5 Credits Financial Lit is a required ½ credit elective World Language is strongly recommended if a student’s plan include 4 year college

<b>TECHNICAL SCHOOL PROGRAMMING</b>				
Subject Area	Grade 9	Grade 10	Grade 11	Grade 12
<b>ENGLISH</b>	English 9	English 10	English 11	English 12
<b>MATHEMATICS and SCIENCE</b>	Approved Math Course and Approved Biology Course	Approved Math Course and Approved Chemistry or Physics Course	Approved Math Course And Approved Chemistry or Physics Course	Approved Mathematics or Science Course
<b>SOCIAL STUDIES</b>	US & the World II	Modern World History	U.S. & the World III	Cultural Diversity or Government
<b>WELLNESS and FITNESS</b>	Phys. Ed or Health	Phys. Ed or Health	None	None
<b>ELECTIVES</b>	UBCTS shop Financial Lit (.5 credit) must be taken once	UBCTS shop Financial Lit (.5 credit) must be taken once	UBCTS shop Financial Lit (.5 credit) must be taken once	UBCTS shop Financial Lit (.5 credit) must be taken once

<b>PHS PROGRAMMING</b>				
<b>Subject Area</b>	<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
<b>ENGLISH</b>	English 9	English 10	English 11 AP English Language and Composition	English 12 AP English Literature and Composition
<b>SOCIAL STUDIES</b>	U.S. & the World II – Level 1 or 2	Modern World History	U.S. & The World III or AP U.S. History	Cultural Diversity, Government, AP European History or AP U.S. History, Government and Development of Public Policy
<b>MATHEMATICS</b>	(See Recommended Course Sequence in Math Section) Algebra I-A, Algebra I-B, Algebra 1, Honors Algebra II, (Teacher Recommendation Only)	Continuation of current mathematics program of studies. Tenth grade students are recommended to take two mathematics courses. Upon completion of the program, students may choose from math electives.		
<b>SCIENCE</b>	Biology – Level 1 or 2	Chemistry I Applied Chemistry	Physics Applied Physics	Science of Choice
<b>WELLNESS and FITNESS</b>	Physical Education I	Phys Ed Option ***Health	Phys Ed Option ***Health	Phys Ed Option ***Health
<b>*ELECTIVES</b>	3.5 Credits	3.5 Credits	3.0 Credits	3.5 Credits
<b>Required elective</b>	***Financial Lit (.5 credit)	***Financial Lit (.5 credit)	***Financial Lit (.5 credit)	***Financial Lit (.5 credit)

\*If you plan on attending college after high school, at least 2 (two) years of the same World Language are strongly recommended by college admissions staff.

\*\*\*Only 1 course needs to be taken one time



# PALISADES HIGH SCHOOL

*Career Pathway Programs of Study*

## BUSINESS CAREER PATHWAY

The Business and Technology department recognizes the importance of introducing and connecting our students to a growing and evolving global workforce. The Business Career Pathway program prepares students for a postsecondary education and/or a career in business. Our pathway will allow students to explore careers in the field while gaining the essential skills necessary to compete in the competitive job market both globally and locally.

**The Business Career Pathway involves 4 areas of focus:**

- **Required Courses** are key courses that anyone considering the business field should take.
- **Electives** are a selection of courses that offer a breadth of experience offering additional opportunities in business and technology as well as other diverse courses that will increase a student’s skill set as they pursue their interests in the business field.
- **Field experiences** may vary depending on the availability of local partners. The best effort will be made to provide opportunities for students, although we are often limited by the providers. Preference will be given to students who have completed a large majority of coursework prior to their senior year and have demonstrated exemplary educational performance.

***By choosing elective courses in a given area, students have the ability to focus on a certain aspect of the business field.***

**TO TAKE A BUSINESS COURSE, STUDENTS DO NOT HAVE TO BE ENROLLED IN BUSINESS CAREER PATHWAYS**

Required Courses - 2 credits total		Elective courses - at least 4 credits	
Accounting I	.5 credit	Accounting II	.5 credit
Business Concepts	.5 credit	AP Computer Science Principles	1 credit
Business Seminar	.5 credit	MOOC	.5 credit
Financial Literacy or	.5 credit	Multimedia Communications	.5 credit
Financial Literacy OL		TV Video I, TV Video II, TV Video III	1 credit
		Entrepreneurship	1 credit
		TV Video III	1 credit
		AP English	1 credit
		AP World Language or Language Level IV	1 credit
		Calculus or AP Calculus	1 credit
		Economics	1 credit
		Journalism	.5 credit
		Racism & Genocide	.5 credit
		Statistics or AP Statistics	1 credit
		College business course - prior approval needed from Principal	1 credit



# PALISADES HIGH SCHOOL

## *Career Pathway Programs of Study*

### EDUCATION CAREER PATHWAY

The Education Career Pathway is for students interested in a career in early childhood, elementary, middle or secondary education. This pathway explores the postsecondary education requirements needed of a teacher, counselor and teacher assistant and/or opportunities for a career in early childcare.

Students in the Education Career Pathway will complete coursework to prepare them for the postsecondary credits needed to earn an Associate or Bachelor’s degree or pursue a career after graduation. Students develop skills in literacy, research, cultural awareness, and technology through coursework and field experience, including classroom observations and shadow experiences with educators to see the planning and preparation that supports educator and student relationships in the classroom. Job shadow opportunities will be available within the Palisades School District and also in other districts to provide a variety of classroom experiences.

#### EDUCATION PATHWAY PREREQUISITES AND COREQUISITES

(alternative courses may be used in specific circumstances)

<b>Required Courses:</b>		<b>Elective Courses (Choose 3.0 credits from the following):</b>	
Intro to Stats or AP Statistics	1 credit	Global Issues Seminar (highly recommended)	.5 credit
Level III World Language	1 credit	Multimedia Communication (highly recommended)	.5 credit
Education Pathway Seminar	.5 credit	AP World Language	1 credit
Effective Communication	.5 credit	Business Seminar	.5 credit
		MOOC related to Education	.5 or 1 credit
		Drawing & Painting I or Graphic Communications	1 credit
		AP Computer Science	1 credit
		Pre-approved elective within education content area	1 credit
		Racism & Genocide	.5 credit
		Dual enrollment course (Psychology, Sociology, Foundations of Education, Exceptionalities, Human Development)	1 credit
		Pre-approved dual enrollment course	1 credit
		Cultural Diversity or Government & Development of Public Policy (grad project must relate to education)	1 credit

**Field Experiences** may vary depending on the availability of local partners. The best effort will be made to provide opportunities for students, although we are often limited by the providers. Preference will be given to students who have completed a large majority of coursework prior to their senior year and have demonstrated exemplary educational performance.



# PALISADES HIGH SCHOOL

## *Career Pathway Programs of Study*

### ENGINEERING AND DESIGN CAREER PATHWAY

Preparing students for post-secondary education leading to a career in Engineering, Engineering Technology, and Art is the purpose of the Engineering and Design Pathway. The three pathways within this area will allow students to explore careers in the field while gaining essential skills and experiences that will prepare them for post-secondary education. Engineering and Art are diverse career clusters with jobs that require different levels of post-secondary education, whether it be an Associate's or Bachelor's degree. This program allows students to be exposed to the Engineering and/or Art fields while having an authentic and genuine interaction with local professionals.

Students will engage in the department course offerings while taking relevant coursework for each pathway.

#### ENGINEERING PATHWAY

**Recommended for students who will pursue an Engineering Degree at a four-year college or university.**

*\*Level I courses are required*

#### ENGINEERING AND DESIGN PREREQUISITES AND COREQUISITES

(alternative courses may be used in specific circumstances)

Required Courses:		Choose 3 credits from the following:	
Introduction to Engineering	1 Credit	* AP Math and Science Courses Highly Recommended	1 Credit
Engineering Design I - Mechanical	1 Credit	Architecture I	1 Credit
		MOOC - related to engineering	.5 or 1 Credit
		Drawing and Painting I	1 Credit
		Computer Science 1 or AP Computer Science (A or Principles)	1 Credit
		Physics II or AP Physics	1 Credit
Engineering Design II- Electrical	1 Credit	Chemistry II or AP Chemistry	1 Credit
		AP Biology	1 Credit
		Engineering Robotics	1 Credit
		Racism & Genocide	.5 credit
		College Course in Advanced Math, Advanced Physics, or Engineering	1 Credit
		Advanced Math - Calculus or AP Calculus	1 Credit
		Architecture II	1 Credit

**Field Experiences** may vary depending on the availability of local partners. The best effort will be made to provide opportunities for students, although we are often limited by the providers. Preference will be given to students who have completed a large majority of coursework prior to their senior year and have demonstrated exemplary educational performance.

## ENGINEERING TECHNOLOGY PATHWAY

### ENGINEERING TECHNOLOGY PREREQUISITES AND COREQUISITES

(alternative courses may be used in specific circumstances)

Required Courses:		Choose 3 credits from the following:	
Applied Physics or Physics I	1 Credit	Architecture I	1 Credit
Introduction to Engineering	1 Credit	Computer Science 1 or AP Computer Science (A or Principles)	1 Credit
		MOOC - related to engineering	.5 or 1 Credit
		Engineering Design I - Mechanical	1 Credit
		UBCTS - Electrical Technologies	1 Credit
		UBCTS - Mechatronics - repeatable for credits	1 Credit
Algebra I or Algebra IB and Proficient performance on Algebra I Keystone Exam	1 Credit	UBCTS - Machining Technologies	1 Credit
		College Course (Pre-approval required from Department Chair)	1 Credit
		Architecture II	1 Credit
		Racism & Genocide	.5 credit

**Field Experiences** may vary depending on the availability of local partners. The best effort will be made to provide opportunities for students, although we are often limited by the providers. Preference will be given to students who have completed a large majority of coursework prior to their senior year and have demonstrated exemplary educational performance.



# PALISADES HIGH SCHOOL

*Career Pathway Programs of Study*

## ART & DESIGN PATHWAY

Recommended for students who will pursue a degree in either fine arts or media arts. A degree in fine arts can prepare students for careers in artistic fields such as sculpture, drawing, painting, and other visual arts. Degrees focusing on the more commercial aspects of art are often considered media arts.

### ART AND DESIGN PREREQUISITES AND COREQUISITES

(alternative courses may be used in specific circumstances)

Required Courses:		Choose 2 credits from the following:	
Drawing and Painting I	1 Credit	Architecture I	1 Credit
Drawing and Painting II	1 Credit	Architecture II	1 Credit
3 D Design and Sculpture I	1 Credit	Graphic Communications	1 Credit
Studio Art or AP Studio Art	1 Credit	3D Design and Sculpture II or III	1 Credit
		Anatomy and Physiology	1 Credit
		Multimedia Communications	.5 Credit
		Marketing	.5 Credit
		MOOC in Art or Design	.5 Credit
		Introduction to Engineering Design	1 Credit
		Racism & Genocide	.5 credit
		College Art Elective	1 Credit
		Art History	1 credit

**Field Experiences** may vary depending on the availability of local partners. The best effort will be made to provide opportunities for students, although we are often limited by the providers. Preference will be given to students who have completed a large majority of coursework prior to their senior year and have demonstrated exemplary educational performance.



# PALISADES HIGH SCHOOL

## *Career Pathway Programs of Study*

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### GLOBAL STUDIES CAREER PATHWAY

The World Language Department recognizes the importance of preparing and connecting our students to the global community. The Global Studies Pathway Program prepares students for a postsecondary education and/or a career in which proficiency in world language(s), knowledge of world cultures and an understanding of global issues are important.

The pathway affords students the opportunity to explore careers in the field, while gaining the essential skills and knowledge to prepare students for global citizenship and to participate in the global market. Furthermore, the Global Studies Pathway will partner with higher education institutions and multinational/international companies where students will gain experience with individuals working in global studies and related fields.

Through the pathway, students will improve their world language proficiency, compare and contrast the products and practices of cultures, analyze global issues and participate in the global community. Advanced Placement and college level courses will offer interdisciplinary coursework. In the elective courses, students will complete projects by incorporating an international or global focus. Furthermore, the pathway affords students the opportunity to pursue real-world interests and build professional networks.

Students will participate in a variety of external experiences to employ their language skills, explore careers, and interact with native speakers and professionals, while increasing their knowledge of global issues. Students will document their academic and personal growth as global citizens through reflection. Upon successful completion of the Global Studies Career Pathway Program, students will meet with our Pathway Board to discuss their learning and experiences.

#### **The Global Pathway involves 4 areas of focus:**

- **Required Courses** are key courses needed to be globally proficient.
- **Electives** are a selection of courses that offer a breadth of experience offering additional opportunities as well as other diverse courses that will increase a student's overall knowledge in the global arena as they pursue their interests in a global field.
- **Field experiences** may vary depending on the availability of local partners. The best effort will be made to provide opportunities for students, although we are often limited by the providers. Preference will be given to students who have completed a large majority of coursework prior to their senior year and have demonstrated exemplary educational performance.

(alternative courses may be used in specific circumstances)

**TO TAKE A WORLD LANGUAGE COURSE, STUDENTS DO NOT HAVE TO BE ENROLLED IN THE GLOBAL STUDIES PATHWAY**

Required Courses: 4 credits total		Elective Courses: 2 credits total	
<i>Required World Language Courses:</i>			
Level III (French, German, Spanish)	1	1 of the following: Introduction to Statistics AP Statistics	1
Level IV (French, German, Spanish)	1	1 of the following: AP European History Cultural Diversity Development of Public Policy	1
Global Issues Seminar (Capstone)	.5	Business Concepts	.5
<i>CHOOSE 2 CREDITS FROM BELOW</i>		Marketing	.5
<i>Elective World Language Course:</i>		MOOC (Focus: Global Studies)	.5 or 1
AP (French, German, Spanish)	1	Journalism	.5 or 1
Second World Language: Level I (French, German, Spanish) Level II (French, German, Spanish)	1 1	Racism & Genocide	.5
Less Commonly Taught Languages: Arabic	.5	<i>Other courses may be pre- approved by the World Language Department Chair (including pre-approved college courses)</i>	
Less Commonly Taught Languages: Mandarin Chinese	.5		

**Field Experiences** may vary depending on the availability of local partners. The best effort will be made to provide opportunities for students, although we are often limited by the providers. Preference will be given to students who have completed a large majority of coursework prior to their senior year and have demonstrated exemplary educational performance.



# PALISADES HIGH SCHOOL

*Career Pathway Programs of Study*

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## MEDICAL CAREER PATHWAY

The intent of the Medical Career Pathway is to prepare students for post-secondary education leading to a career in the medical field. Students will be exposed to valuable experiences in the field and take coursework that will prepare them for post-secondary education and the job market beyond. The pathway utilizes partnerships with local medical providers and community colleges to offer students experiences beyond the scope of a traditional high school curriculum.

The medical field is diverse with careers that require different levels of post-secondary education (2 years for some Associates Degrees to 12+ years for certain Medical Board Certifications). One goal of the Medical Careers Pathway is to expose students to the varied opportunities in the field and to have students be able to have a general understanding of the requirements of each job.

**The pathway involves 3 areas of focus:**

- **Required Courses** are key courses that anyone considering the medical field should take. They include high level math and science courses that will prepare students for similar coursework beyond high school.
- **Electives** are a selection of courses that offer a breadth of experience offering additional opportunities in science and math as well as other diverse courses that will increase a student's skill set as they pursue their interests in the medical field.
- **Field experience** may vary depending on the availability of local partners. The best effort will be made to provide opportunities for students, although we are often limited by the providers. Preference will be given to students who have completed a large majority of coursework prior to their senior year and have demonstrated exemplary educational performance.

## MEDICAL CAREER PREREQUISITES AND COREQUISITES

(alternative courses may be used in specific circumstances)

Algebra I-1 (Proficient on Keystones)

Biology 1 (Proficient on Keystones)

Chemistry I

Physics I or AP Physics 1

Required Courses (3 credits total):		Elective Courses (3 credits total):	
Anatomy & Physiology	1 Credit	Advanced Science not chosen in column 1	1 credit
Advanced Science (pick 1)	1 Credit	Physics II	1 credit
<ul style="list-style-type: none"> <li>• AP Biology</li> <li>• Chemistry II</li> <li>• Anatomy &amp; Physiology II</li> </ul>		Accounting I	.5 credit
		Business Concepts	.5 credit
		College course with prior approval	1 credit
		World Language - Level IV or AP	1 credit
Advanced Math (pick 1)	1 Credit	MOOC related to science/medicine Science department chair approval required	1 credit
<ul style="list-style-type: none"> <li>• Statistics or AP Statistics</li> <li>• Calculus or AP Calculus</li> </ul>		Racism & Genocide	.5 credit
		Medical Career Pathway Seminar	1 credit

**Highly recommended:** Medical Careers I, Medical Careers II or other experience approved by the Science Department Chair

# COURSE DESCRIPTIONS

## ART AND ENGINEERING DESIGN

### 3-D DESIGN & SCULPTURE I

Credit: 1

Weight: 5

Grades: 9-10-11-12  
Repeatable for Credit: No  
Prerequisite: none

Meets: **Daily/Semester**  
Dept: ART & ENGINEERING DESIGN

This course provides students with experience of applying the elements of art and principles of design to the creation of 3-dimensional art work in a variety of mediums. The manipulation of the materials will provide the students with a process of investigation, growth and discovery. Hands-on exploration of found materials, clay, plaster, metal, paper, glass, and wire will be utilized. This course is separated into units of study based upon the sculptural technique and/or material(s). Students will also have the opportunity to work on the pottery wheel. Students will learn the safe and appropriate use of tools and materials. No previous experience in working with 3-dimensional materials is necessary in order to take this course. Field trips provide additional access and exposure to art resources.

### 3-D DESIGN & SCULPTURE II

Credit: 1

Weight: 5

Grades: 9-10-11-12  
Repeatable for Credit: No  
Prerequisite: Earned a minimum grade of C- in 3-D Design & Sculpture I

Meets: **Daily/Semester**  
Dept: ART & ENGINEERING DESIGN

In this course, students continue to investigate materials and processes relative to the three-dimensional arts. Students work on a series of problem sequences leading to final works investigating different issues than those encountered in 3-D Design and Sculpture I. Materials used in this course include metals, wood, stained glass, Precious Metal Clay (PMC), and clay. Students will continue to learn safe and appropriate use of tools and materials. Field trips provide additional access and exposure to art resources.

### 3-D DESIGN & SCULPTURE III

Credit: 1

Weight: 5

Grades: 10-11-12  
Repeatable for Credit: Yes  
Prerequisite: Earned a minimum grade of C- in 3-D Design II with a passing grade

Meets: **Daily/Semester**  
Dept: ART & ENGINEERING DESIGN

Students taking this studio course will explore traditional and contemporary sculpture materials and processes at an advanced level. Emphasis is on both additive, subtractive, assemblage, and casting methods. Goals include acquiring technical skills, understanding the physical and expressive possibilities of diverse materials (such as soapstone, alabaster, precious metals, clay, and wood). Students will continue to learn safe and appropriate use of tools and materials. While some units of study are required by all students taking the course, each student will have the opportunity to develop a concentration or focus of study while working with specific materials or techniques. Field trips provide additional access and exposure to art resources.

**STUDIO ART**Credit: **1**Weight: **5**Grades: **11-12**

Repeatable for Credit: Yes

Prerequisite: Earned a minimum grade of C- in Drawing, Painting &amp; 2-D Design II

Meets: **Every other day for a year**

Dept: ART &amp; ENGINEERING DESIGN

This course is designed to explore contemporary art and artists of the 20th and 21st century including current trends in the visual world. The course will concentrate on both technique and concept development. Studio Art provides students with the opportunity to produce digital artwork, drawing, painting, collage, and graphic design while exploring art history, criticism, and aesthetics.

**AP STUDIO ART 2-D DESIGN**Credit: **1**Weight: **8**Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Studio Art &amp; Approved AP Application

Meets: **Every other day/Year**

Dept: ART &amp; ENGINEERING DESIGN

This course is designed to further students' knowledge and techniques of contemporary artists of the 21st century and links to the past. The course provides an opportunity to integrate both the elements and principles of design into various works of art along with teaching art history, criticism, aesthetics, and visual culture. In addition, this course will be used to provide the students with the opportunity to produce a body of artwork that can be used towards a personal portfolio, for submission to both Advanced Placement Board for college credit, and admission to art colleges and universities.

**DRAWING, PAINTING & 2-DIMENSIONAL DESIGN I** Credit: **1**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

This is a studio-based course that introduces students to various painting, drawing and computer techniques used for art production. Students will produce basic level art projects in design, drawing and painting while understanding basic knowledge of western art history and art criticism.

**DRAWING, PAINTING & 2-DIMENSIONAL DESIGN II** Credit: **1**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Drawing, Painting and 2-D Design I

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

This is a studio-based course which provides an opportunity for students to continue their basic skills and knowledge of painting, drawing and computer techniques used for art production. Students will provide art projects in design, drawing and painting while understanding basic knowledge of contemporary and 21st century artists and techniques.

**ART HISTORY**Credit: **1**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

This course is designed to further students' knowledge and techniques of contemporary artists of the 21st century and links to the past. The course provides an opportunity to integrate both the elements and principles of design into various works of art along with teaching art history, criticism, aesthetics, and visual culture. In addition, students will develop their portfolio for college applications or AP credit.

**COMPUTER ANIMATION**Credit: **1**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: No

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

Prerequisite: Earned a minimum grade of C- in Drawing, Painting & 2-D Design II or a minimum of one-year experience with the 3DS Max program and with recommendation of the teacher.

This course will explore an overview of the history of animation and computer animation, visual aesthetics, cinematography and the production of an animated short. Students will learn to model using a 3D animation program along with the application of texture mapping, lighting, camera movement, and animation.

**GRAPHIC COMMUNICATIONS**Credit: **1**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

Graphic Communications, also known as Digital Design, is one way to create commercial design and works of art through technology. In this course students will explore an overview of graphic communication areas such as advertising design, graphic arts, print production, product design and printed materials. Students will use Adobe Suite including Photoshop, Illustrator and In-Design.



## **ENGINEERING DESIGN and DESIGN CONCEPTS**

Students considering a profession within a technical field, such as Engineering and Design should consider these courses. Technological career choices could include: Robotic Technology, Medical Technologies, Automotive Technologies, Manufacturing Technologies, Construction Technologies, etc. Interested students should take the courses Engineering Design I-Mechanical, Engineering Design II-Electrical, Robotics I and II and Design Concepts I. These classes will provide a solid foundation for entering all of these careers. Students who want to enter the Design Careers such as Architecture, Industrial Design, Interior Design, or Product Design will need to take the classes of Design Concepts I, II and III.

**ARCHITECTURAL DESIGN I**

Credit: 1

Weight: 6

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

The primary focus of the course will be the design and engineering of civil architectural problems using three-dimensional design software. Students will use computer aided design programs which are used in the industry today (AutoCAD and Autodesk Revit). They will explore topics such as: prominent architects in history, innovative building techniques, individual and group needs in designing spaces, cost analysis of structures, building codes and regulations, traffic patterns, landscaping, etc. Architectural design projects will encompass the design and function of primarily residential spaces. Emphasis will be placed on developing problem solving, critical thinking, time management, and exploring the impact of technology on the field of civil engineering, architecture, and design.

**ARCHITECTURAL DESIGN II**

Credit: 1

Weight: 6

Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Architectural Design I

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

Architectural Design II allows the designer to create commercial spaces as well as the industrial design of common structures. Students will use computer aided design programs which are used in the industry today (AutoCAD, Autodesk Inventor, and Autodesk Revit). Students will apply theory of structural design and support, utilities, site considerations, and building and construction codes to their design. In addition, students will acquire the skills and background necessary to pursue various post-secondary architectural and engineering design programs. Emphasis will be placed on developing problem solving and critical thinking skills in planning, developing and application of design projects.

**INTRO TO ENGINEER DESIGN**

Credit: 1

Weight: 5

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

In Engineering Design, the student will develop an understanding of mechanical drawings and their application to engineering and robotics. Technical drawings include multi-view, isometric, auxiliary, and working. Engineering design concepts and methods are applied through research, models, interdisciplinary study, and development of career exploration. Students will use computer aided design programs found in the industry today (AutoCAD and Autodesk Inventor). Students also solve real life problems in engineering and robotics.

**ENGINEERING DESIGN -MECHANICAL SYSTEMS**

Credit: 1

Weight: 5

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Intro to Engineering Design

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

This course introduces basic engineering concepts such as force, work, rate, resistance, energy, power, and momentum and how to apply them in a mechanical system. The student will develop thinking processes aimed at solving engineering design problems. The problem-solving procedure developed in this course is an invaluable tool that can be used in any professional or personal situation the student may face. Students work in groups and are given a real-world mechanical/robotics problem to solve. By strictly defining the problem, brainstorming, discussing, building, testing and evaluating, students will have to actually solve the given problem and present the results to the class. Students also develop a design portfolio outlining the procedures used throughout the design process. Students create a set of manufacturing drawings using Autodesk Inventor. In addition to engineering problem solving, students will explore various emerging technologies and examine the role of technology in both society and their personal lives.

**ENGINEERING DESIGN -ELECTRICAL SYSTEMS** Credit: 1

Weight: 6

Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Intro to Engineering Design

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

This course introduces basic Electrical Engineering concepts such as analog and digital electronics theory. Students develop a thinking process aimed at solving electrical engineering design problems. The problem-solving procedure is refined in this course in order to tighten the development process. The brainstorming section is expanded to include a more in-depth understanding of electrical concepts through research, text work and through the use of interactive software tools. The skills refined at this level give the student a solid understanding in regards to "real-world" product development methods. Students will also work with programmable logic controllers and develop electrical systems for competitive robotics.

**ROBOTICS I**

Credit: 1

Weight: 6

Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Mechanical and Electrical Engineering

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

Students will be introduced to the world of Robotics in this course. The Vex Robotics curriculum for developing engineering skills will be utilized. Students will continue to use the "systems approach" for problem solving creating their solutions in order to build upon their existing communication skills. The problem will involve students learning manufacturing skills, CAD skills, DC Electronics and students working prototypes. Student teams will compete in a competition at the end of the semester. Any student interested in technical careers will want to take this course.

**ROBOTICS II**

Credit: 1

Weight: 6

Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Robotics I

Meets: **Daily/Semester**

Dept: ART &amp; ENGINEERING DESIGN

Robotics is one of the fastest growing industries in the United States. This course will give students the opportunity to enhance their problem-solving skills while creating a solution for the competition held at the end of the semester. Students will use their CAD, manufacturing and electronic skills to design, manufacture and test their prototypes. In utilizing Inventor in the design process, students will be able to animate and test their designs before starting construction. All students interested in technical careers will want to take this class.

## **BUSINESS AND TECHNOLOGY**

### **ACCOUNTING I**

Credit: **0.5**

Weight: **5**

Grades: **9-10-11-12**  
Repeatable for Credit: No  
Prerequisite: None

Meets: **Every other day/Semester**  
Dept: BUSINESS & TECHNOLOGY

In this course, students will learn the fundamental accounting cycle for a service business. Students will use Google Sheets to complete textbook problems and create real world businesses. Accounting careers and concepts are explored using the internet and project-based learning.

### **ACCOUNTING II**

Credit: **0.5**

Weight: **6**

Grades: **9-10-11-12**  
Repeatable for Credit: No  
Prerequisite: Passing grade in Accounting I

Meets: **Every other day/Semester**  
Dept: BUSINESS AND TECHNOLOGY

This course is a continuation of concepts studies in Accounting I. Specifically the merchandising business accounting cycle will be studied. In addition to text books and real-world problems, students will work towards and earn a Quicken Loans certification.

### **BUSINESS SEMINAR**

Credit: **0.5**

Weight: **5**

Grades: **11-12**  
Repeatable for Credit: No  
Prerequisite: none

Meets: **Every other day/Semester**  
Dept: BUSINESS & TECHNOLOGY

Students will learn about various career paths in the business world through research, guest speakers, and field experiences. They will explore aspects of each career, such as job requirements, how to be a competitive candidate, and current issues in the field. Students will go off-site to complete a number of field experiences during class and will be required to present information on their experiences. Students will also prepare digital resumes. They will participate in mock interviews with professionals in the business field as a culminating activity.

### **BUSINESS CONCEPTS**

Credit: **0.5**

Weight: **5**

Grades: **9-10-11-12**  
Repeatable for Credit: No  
Prerequisite: None

Meets: **Every other day/Semester**  
Dept: BUSINESS & TECHNOLOGY

The goal of this course is to give students a well-rounded understanding of how businesses operate in the U.S. and overseas. The class will cover the following topics: how businesses are set up by researching the advantages and disadvantages of sole proprietorships, partnerships, LLCs, Corporations. Additional topics include: job preparation skills, business ethics, labor unions, international business, business etiquette. Some long-range major projects are: Restaurant Project; local/international company research. Guest speakers on specific topics visit the class.

**AP COMPUTER SCIENCE PRINCIPLES**

Credit: 1

Weight: 8

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Completion of Algebra 1 with a minimum grade of C-

Meets: **Daily-or every other/Year**

Dept: BUSINESS &amp; TECHNOLOGY

Pathway Program: College Prep/Tech

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems-including the internet-work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

**ENTREPRENEURSHIP**

Credit: 1

Weight: 6

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C -in Business Concepts

Meets: **Daily/Semester**

Dept: BUSINESS &amp; TECHNOLOGY

The major focus of the class is the formation of a student company. After completing and analyzing marketing research surveys, students decide what product/service to sell. From that point officers are elected, materials are purchased, and the business is advertised. Students gain hands-on and practical experience about the procedures of starting, running, and liquidating a business. In addition to running the company, students will prepare a formal business. Other supplemental projects and activities include: business ethics, franchises, research of entrepreneurs, research of successful and unsuccessful companies and various readings on current business trends and technology.

**FINANCIAL LITERACY**

Credit: 0.5

Weight: 5

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: BUSINESS &amp; TECHNOLOGY

Students taking Financial Literacy will learn the knowledge, skills, and processes required to make sound financial decisions and manage their own personal finances. Topics include: goals and decision making, careers and planning, budgeting, saving and investing, credit, banking services, transportation issues, housing issues, risk protection. Speakers will be brought in to discuss specific topics. All activities will be hands-on and will engage students in critical thinking, problem-solving and decision-making. **This class is a requirement for graduation for all students starting with the class of 2021. This course will count as ½ credit of the 6.5 elective credits.**

**FINANCIAL LITERACY ONLINE**

Credit: 0.5

Weight: 5

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: BUSINESS &amp; TECHNOLOGY

Students taking Financial Literacy online will learn the knowledge, skills, and processes required to make sound financial decisions and manage their own personal finances. Topics include: goals and decision making, careers and planning, budgeting, saving and investing, credit, banking services, transportation issues, housing issues, risk protection. Speakers will be brought in to discuss specific topics. All activities will be hands-on and will engage students in critical thinking, problem-solving and decision-making. **This class is a requirement for graduation for all students starting with the class of 2021. This course will count as ½ credit of the 6.5 elective credits.**

**MARKETING**Credit: **0.5**Weight: **5**

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Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: BUSINESS &amp; TECHNOLOGY

Students learn marketing principles with an emphasis on promotion and advertising in these specialty areas: travel and tourism, hospitality, e-commerce, international, sports, entertainment, fashion, and social media. This is a hands-on course held in a computer lab. Students will develop marketing strategies and create a variety of publications, including websites for projects. Students will be required to read a curriculum-related, non-fiction book and/or current articles chosen by the teacher from marketing publications.

**MOOC SEMINAR**Credit: **0.5 or 1**Weight: **5**

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Grades: **10-11-12**

Repeatable for Credit: Yes

Prerequisite: None

Meets: **Daily/Semester**

Dept: CYBER ACADEMY

This course will provide students with a cutting-edge learning experience. Driven entirely by their own preferences and interests, students will work with their instructor to develop an individual plan for the semester. This plan will include participation in one or more MOOCs (Mass Open Online Courses) available through one of several vendors (including world-class Colleges and Universities) and the completion of a comprehensive portfolio as the culminating course assessment. The course will be flexible and completely individualized, supervised and assessed by a member of the high school faculty. Depending on the online courses chosen, participating students may be eligible to earn dual enrollment credit through a participating college or university.

**MULTIMEDIA COMMUNICATIONS**Credit: **0.5**Weight: **5**

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Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: BUSINESS &amp; TECHNOLOGY

This course emphasizes the skills needed to communicate effectively for various purposes using multimedia. Students will learn how to create effective digital images, graphics, infographics, web pages, blogs, videos, podcasts, slideshows, social media posts, spreadsheets and app designs. Students will be challenged to apply critical and creative thinking during this process, and will develop their presentation skills as they share their work with peers.

**TV/VIDEO PRODUCTION I**Credit: **1**Weight: **5**

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Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: BUSINESS &amp; TECHNOLOGY

Pathway Program: College Prep/Tech

Students will be exposed to the TV/Video production field and will be responsible for the production of the high school's morning and afternoon shows. The principles and methodology of the entire television production process will be explored in depth. Students in this program will learn to operate studio and field cameras, video production switchers, character generators, and video editing equipment, lighting and audio systems. Each student will continue to build their communication skills by specialized writing for news and promotional script writing. Students will learn creative set design, computer animation and skills necessary to become a full producer.

**TV/VIDEO PRODUCTION II**Credit: **1**Weight: **6**Grades: **9-10-11-12**

Repeatable for Credit: No

Meets: **Daily/Semester**

Dept: BUSINESS &amp; TECHNOLOGY

Pathway Program: College Prep/Tech

Prerequisite: Earned a minimum grade of C- in TV Video Production I &amp; Teacher Recommendation

TV/Video Production II is a rigorous continuation of TV/Video Production I. The course is designed to build on the basic video production principles learned in the first course. TV/Video II students will not only learn and apply higher-level skills in Adobe Premiere video editing software but they will incorporate both studio and field production techniques using both analog and digital technology. The class will work closely with our Community Relations Director in developing documentaries and informational ads about Palisades High School and the Palisades School District. In addition, the class will maintain and add programming to the Palisades School District's educational cable station.

**TV/VIDEO PRODUCTION III**Credit: **1**Weight: **6**Grades: **9-10-11-12**

Repeatable for Credit: Yes

Meets: **Daily/Semester**

Dept: BUSINESS &amp; TECHNOLOGY

Pathway Program: College Prep/Tech

Prerequisite: Earned a minimum grade of C- in TV Video Production II &amp; Teacher Recommendation

Students who have successfully applied what they have learned in TV/Video I and II will be able to take their skills to the next level in TV/Video III. TV/Video III goal is to incorporate unique field work and then continue applying it to higher-level skills in Adobe Premiere that was taught in TV/Video II. Through a variety of projects, they will create stories for Palisades High School as well as Palisades School District. Students will be covering stories that happen in and around the Palisades School District. The stories will be captured and edited then shown on our Service Electric cable station and/or the PSD website. Students who take the course are required to film at least one after school or evening event per marking period. The course will demand collaborative, creative, critical thinking and decision-making skills. It will prepare students for college and or a career in video production.

**ENGLISH****ADVANCED PLACEMENT ENGLISH: LANGUAGE & COMPOSITION**Credit: **1**Weight: **8**Grades: **11**

Repeatable for Credit: No

Prerequisite: Approved AP Application

Meets: **Every other day/Year or Daily/Semester**

Dept: ENGLISH

This course emphasizes high-level skill development in expository writing and critical reading. The student is expected to have strong language and writing skills. Students read a variety of prose from many different time periods, disciplines, and contexts. The goal for each student is to become a skilled writer for a variety of audiences and purposes. Students will compose narrative, exploratory, expository, and argumentative papers. At the conclusion of the course, students are expected to take the AP English Language and Composition exam. Summer readings, note taking, and completion of a variety of writing assignments are required. A test fee is required if the AP exam is taken. Buying the classics for this course is strongly suggested.

**ADVANCED PLACEMENT ENGLISH: LITERATURE & COMPOSITION**

Credit: 1

Weight: 8

Grades: 12

Repeatable for Credit: No

Prerequisite: Approved AP Application

Meets: **Every other day/Year or Daily/Semester**

Dept: ENGLISH

This course emphasizes high-level skills in reading, literary analysis, and writing. The student is expected to read a wide range of literature and develop both insight and skills of expression. At the conclusion of the course, students are expected to take the AP English exam. Summer reading and completion of writing assignments are required. A test fee is required if the AP exam is taken. Buying the classics for this course is strongly suggested.

**ADVANCED READING SEMINAR**

Credit: 0.5

Weight: 5

Grades: 9-10-11-12

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: ENGLISH

This course is designed for students who would like to continue to develop their college level reading and vocabulary skills. Self-selected fiction and nonfiction are read and analyzed. Emphasis is placed on both developing strategies and understanding personal strengths and weaknesses when reading challenging material.

**CREATIVE WRITING**

Credit: 0.5

Weight: 5

Grades: 9-10-11-12

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: ENGLISH

This course is for students already grounded in the basics of literature. It is for those students who wish for more than an overview in writing fiction and are serious about developing their own creative writing skills. The emphasis is on exploring modern writers' styles. Students will be experimenting with the written form in various genres. Students are required to develop an original short story.

**EDUCATION PATHWAY SEMINAR**

Credit: 0.5

Weight: 5

Grades: 11-12

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: English

Is Teaching for me? Many students enter college, choosing a major in Education without a clear understanding of the profession, requirements, or skills necessary to succeed in one's chosen major of study. Through field experiences, long-range projects, cooperative learning, discussion, and reflective journal writing, this discussion-based course will expose students to the skills necessary to be successful as an educator. Students will also begin to develop the professional communication skills needed to work in the education profession.

**EFFECTIVE COMMUNICATIONS**

Credit: 0.5

Weight: 5

Grades: 9-10-11-12

Repeatable for credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: English

Effective Communications is a language arts-based course that will introduce students to the basic principles of communication. Beginning with recognizing and understanding communication styles, students will build strategies to develop effective communication skills in their personal lives, in the classroom, and career readiness. Students will apply written and speaking communications skills required in small group discussions, interviews, speeches and presentations.

**ENGLISH 9**Credit: **1**Weight: **6 (9-1) 5 (9-2)**

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Grades: **9**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ENGLISH

Students develop strategies for independent critical reading and writing. Projects are developed using the writing process. Students analyze short stories, novels, drama, and poetry. They write a variety of expository, descriptive, narrative, and persuasive compositions. Students continue with vocabulary and grammar studies, and study skills development. Independent reading and responses to that reading are required at all levels. A research paper is required.

**ENGLISH 10**Credit: **1**Weight: **6 (10-1) 5 (10-2)**

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Grades: **10**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ENGLISH

Students continue polishing strategies for reading and writing in this course. An added emphasis in tenth grade is the development of critical reading, vocabulary, and test taking strategies appropriate for students taking standardized tests. Students take the Keystone Literature exam towards the end of the course. Students analyze a variety of fiction and nonfiction material from many perspectives and many cultures.

**ENGLISH 10 BLENDED ONLINE**Credit: **1**Weight: **6**

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Grades: **10**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of B in English 9-1 or 9-2

Meets: **Semester**

Dept: ENGLISH

This is a web-based course taught in a blended format. Students continue polishing strategies for reading and writing. An added emphasis in tenth grade is the development of critical reading, vocabulary, and test taking strategies appropriate for students taking standardized tests. Students analyze a variety of fiction and nonfiction materials from many perspectives and many cultures.

**ENGLISH 11**Credit: **1**Weight: **6 (11-1) 5 (11-2)**

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Grades: **11**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ENGLISH

Expository writing and intense critical reading of American classics and other works are the focal points of this course both verbally and in writing. Students analyze American literature from the 1600s to the present. Students continue to develop their vocabulary skills. A variety of prose writing techniques is studied and practiced. Test taking strategies are emphasized for students taking standardized tests, such as the SAT. Remediation is offered for those students who must retake the Keystone Literature exam towards the end of the course.

**ENGLISH 11 ONLINE**Credit: **1**Weight: **6 (11-1) 5 (11-2)**

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Grades: **11**

Repeatable for Credit: No

Meets: **Semester**

Dept: ENGLISH

Prerequisite: Earned a minimum grade of B in English 10-1 or 10-2 & be available to meet with the instructor periodically throughout the semester.

In this asynchronous web-based course, students will develop expository writing and intense critical reading of American classics. Students analyze literature from the early 1600s to the present. Students continue to develop vocabulary skills. A variety of prose writing techniques is studied and practiced. Test taking strategies are emphasized for students taking standardized tests, such as the SAT. Remediation is offered for those students who must retake the Keystone Literature exam towards the end of the course.

**ENGLISH 12**Credit: **1**Weight: **6 (12-1) 5 (12-2)**

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Grades: **12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: ENGLISH

A variety of reading and writing strategies is applied to the study of literature and essays. Students learn to analyze and interpret many genres of literature. Composition styles are reviewed and polished at this level, projects are completed, grammar is studied, and students give oral presentations. British literature and tragedies are emphasized.

**ENGLISH 12 ONLINE  
(12-1) 5 (12-2)**Credit: **1**Weight: **6**

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Grades: **12**

Repeatable for Credit: No

Meets: **Semester**

Dept: ENGLISH

Prerequisite: Earned a minimum grade of B in English 11-1 or 11-2 & be available to meet with the instructor periodically throughout the semester.

In this asynchronous web-based course, students will study the development of British literature chronologically. A variety of reading and writing strategies will be applied to the study of literature and nonfiction essays. Composition styles will be reviewed and polished at this level, and the projects will be completed using an interactive curriculum. Tragedies and British literature from the Anglo-Saxon period to the contemporary will be emphasized.

**JOURNALISM I**Credit: **0.5 or 1**Weight: **5**

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Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Year or Daily/Semester**

Dept: ENGLISH

This course will introduce students to the world of journalism. Six units of study include: History of Journalism, Writing for Publication, Photojournalism, Graphic Design/Layout, News Editing, and Web-based News. Students will also take on various roles in the operation of the school newspaper, the *Pirates' Pearl*. Ongoing analysis of print news, project presentations, and student portfolio maintenance are also critical course elements.

**JOURNALISM II**Credit: **0.5 or 1**Weight: **5**Grades: **9-10-11-12**Meets: **Every other day/Year or Daily/Semester**

Repeatable for Credit: No

Dept: ENGLISH

Prerequisite: Earned a minimum grade of C- for one full elective credit in Journalism I

This course will extend students' exposure in the world of journalism. Six units of study include: Opinion/Editorial Writing, Software/Process Seminar, Public Opinion, Media as Social Institutions, Race, Gender, and The Media, and Ethics and Journalism. Through roles in the operation of the school newspaper, the *Pirates' Pearl*, students will be expected to assume leadership responsibilities and mentor Journalism I students. Ongoing analysis of print news, project presentations, and student portfolio maintenance remain critical course elements.

**SAT PREP CRITICAL READING & WRITING** Credit: **0.5**Weight: **5**Grades: **9-10-11-12**Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: ENGLISH

Prerequisite: None

This is a language arts-based course that builds knowledge, skills, and test-taking strategies required for the SAT examination. The units are based on recommendations from the College Board, developers of the SAT. Students in any grade (9-12) will benefit from an intensive study of vocabulary, reading strategies, and writing techniques. Even those students not planning on taking the SAT will improve their reading and writing skills.

**SAT PREP CRITICAL READING & WRITING ONLINE** Credit: **0.5**Weight: **5**Grades: **9-10-11-12**Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: ENGLISH

Prerequisite: None

This is an asynchronous web-based language arts-based course that builds knowledge, skills, and test-taking strategies required for the SAT examination. The units are based on recommendations from the College Board, developers of the SAT. Students in any grade (9-12) will benefit from an intensive study of vocabulary, reading strategies, and writing techniques. Even those students not planning on taking the SAT will improve their reading and writing skills.

**GIFTED****GIFTED INDEPENDENT STUDY**Credit: **0.5**Weight: **6**Grades: **11-12**Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: GIFTED

Prerequisite: Earned a minimum grade of C- in Gifted Seminar III and/or gifted support teacher recommendation. Must have an active GIEP

Students who have successfully completed Gifted Seminar III will design an independent study in which they pursue the investigation of a self-selected focus. Students design an independent study that emphasizes the development of higher-level thinking skills of analysis, synthesis and evaluation and identify the content standards related to the independent study and product. A culminating project/product presentation is required. This independent study is graded on an A, B, C scale.

**GIFTED INDEPENDENT STUDY ONLINE**Credit: **0.5**Weight: **6**

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Grades: **11-12**Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: GIFTED

Prerequisite: Earned a minimum grade of C- in Gifted Seminar III and/or gifted support teacher recommendation. Must have an active GIEP

This is a web-based course; however, there will be scheduled mandatory face-to-face check-in meetings throughout the semester. Students who have successfully completed Gifted Seminar III will design an independent study in which they pursue the investigation of a self-selected focus. Students design an independent study that emphasizes the development of higher-level thinking skills of analysis, synthesis and evaluation and identify the content standards related to the independent study and product. A culminating project/product presentation is required. This independent study is graded on an A, B, C scale.

**GIFTED SEMINAR I**Credit: **0.5**Weight: **6**

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Grades: **9-10**Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: GIFTED

Prerequisite: Must have an active GIEP

Students identified as intellectually gifted may participate in this course. The objective is to challenge the high intellectual and creative potential of each student. Students pursue ideas and attempt to solve problems in an interdisciplinary context through a philosophical framework. The development of the higher-level thinking skills of analysis, synthesis and evaluation is achieved as students explore and create an independent project, research paper and presentation in an area of self-selected interest.

**GIFTED SEMINAR II**Credit: **0.5**Weight: **6**

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Grades: **9-10**Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: GIFTED

Prerequisite: Must have an active GIEP

Students identified as intellectually gifted may participate in this course. The objective is to challenge the high intellectual and creative potential of each student. Students pursue ideas and attempt to solve ethical problems in an interdisciplinary context through a philosophical framework. The development of the higher-level thinking skills of analysis, synthesis and evaluation are achieved as students explore and create an independent project, research paper and presentation in an area of self-selected interest.

**GIFTED SEMINAR III**Credit: **0.5**Weight: **6**

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Grades: **11-12**Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: GIFTED

Prerequisite: Must have an active GIEP. Earned final grade of C- or better in Gifted Seminar I and/or II or taking an AP social studies course in senior year.

The purpose of this course is to develop the student's critical thinking and problem-solving skills through developing media analysis and research skills. Students will explore current topics related to cultural diversity and conflict resolution in the national and international arenas. The methods used to explore these issues may include but are not limited to reading, discussion, debate and journal reflection. Students will develop, research, complete and present their Senior Graduation Project. Students in 11th grade in this course are expected to enroll in gifted independent study in their senior year and are encouraged to apply for AP Social Studies courses in their senior year.

# MATHEMATICS

Palisades offers three different programs of study: Honors Mathematics, Level 1, and Level 2. The programs vary by focusing on different styles of learning, depth of content, and utilizing different teaching methods.

The Honors Mathematics program is a rigorous study of the different areas of traditional mathematics. Placement in the honors program is based on teacher recommendation and continued evaluation of assessment scores. The core courses offered at the high school include Honors Algebra II, Honors Advanced Algebra/Trigonometry, AP Calculus, and AP Statistics.

The Level 1 and 2 Math programs are college preparatory sequences that include courses in Algebra I, Geometry, Algebra II, Advanced Algebra/Trigonometry, and additional electives.

To change to a higher level of mathematics - Level 2 up to Level 1 or Level 1 up to Honors - students must meet the following criteria:

- Average of B+ or higher in current course
- Earn a B or higher on both the midterm and final exams
- Take the final exam for the higher-level course they are currently enrolled in and earn a score comparable to the average of the higher-level course (only for movement to honors courses)
- Teacher/Department approval

Students are responsible for learning any topics from the higher-level course that they did not have in the lower level courses.

The courses listed as electives in this curriculum guide serve two purposes. The courses will either permit the student to choose more advanced study in high levels of mathematics (after completing their chosen core curriculum), or they will provide students with options for completing their current course of studies.

## RECOMMENDED PALISADES HIGH SCHOOL MATH DEPARTMENT SEQUENCING

	LEVEL 2		LEVEL 1		HONORS
8th	Pre-Algebra		Pre-Algebra	Algebra I	Geometry Honors
9th	Algebra IA	Algebra IB	Algebra I-1	Geometry	Algebra II Honors
10th	Geometry Algebra II		Geometry; Algebra II	Algebra II; Advanced Algebra/ Trigonometry	Advanced Algebra/ Trigonometry Honors
11th	Algebra III		Advanced Algebra/ Trigonometry	Pre-Calculus	AP Calculus AP Computer Science- A
12th	Math Elective (1.0)		Math Elective (1.0)	Math Elective (1.0)	AP Statistics

Math Electives Offered: Pre-Calculus, Intro to Statistics, Intro to Computer Science, Calculus, AP Statistics, AP Calculus, or AP Computer Science A.

Other Non-Math Elective Offered: Computer Science I, SAT Math

-Referring to the chart above: **College Prep students must take four credits of math. Students are encouraged to take a fifth math course that will count as an elective credit.**

-**Honors students must take 4 credits of math, whereas Tech students must take a combined 7 credits of math and science level 1 and level 2 courses.** If a student passes an Algebra I class but does not pass the Algebra I Keystone exam, he/she will be placed in an Algebra II class before Geometry, if possible. The department encourages students to earn extra credits in mathematics. Any student who elects to take a Pre-Calculus/Calculus course and a Statistics or AP Computer Science A course must take the Calculus course first or concurrently.

**ADVANCED ALGEBRA/TRIGONOMETRY**Credit: **1**Weight: **6**

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Grades: **10-11-12**

Repeatable for Credit: No

Meets: **Daily/Semester**

Dept: MATHEMATICS

Prerequisite: Earned a minimum grade of C- in Algebra II-1 or a minimum grade of B- in Algebra III if this course will count as a fourth math. If this course is used to satisfy an elective, no prerequisite is necessary.

This course is designed to review and expand upon the fundamentals of Algebra II such as linear, quadratics, polynomial functions, inequalities, and other functions. Students will learn the theory and the use of the basic circular and trigonometric functions. Additionally, the course will serve to introduce students to concepts preparatory to Pre-Calculus or Calculus.

**ADVANCED ALGEBRA/TRIGONOMETRY (HONORS)**Credit: **1**Weight: **7**

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Grades: **10**

Repeatable for Credit: No

Meets: **Daily/Semester**

Dept: MATHEMATICS

Prerequisite: Earned a minimum grade of B- in Algebra II (Honors)

This course is designed to review and expand upon the fundamentals of Algebra II and to teach the theory and the use of the basic circular and trigonometric functions. Additionally, the course will serve to introduce students to concepts preparatory to Calculus. Students in this Honors section will engage in more individual investigations, more advanced applications and more advanced Trigonometric topics.

**ADVANCED PLACEMENT CALCULUS**Credit: **1**Weight: **8**

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Grades: **11-12**

Repeatable for Credit: No

Meets: **Daily/Semester or Every other day/Year**

Dept: MATHEMATICS

Prerequisite: Honors AA Trig with a minimum grade of B- or Pre-Calculus with a grade of A- or higher or earned a minimum grade of C- in Calculus & Approved AP Application

Advanced Placement Calculus is a college level course designed for accelerated students who wish to receive college credit prior to graduation. It is an especially good choice for those students who plan to concentrate in mathematics, science or engineering in college. It includes all topics fundamental to differential and integral calculus such as derivatives and their applications, differential equations and definite and indefinite integration and their applications to problem solving. It is expected that students who enroll in an AP course will take the AP Exam. Students who pass the AP Exam in Calculus may be eligible for college credit from many state colleges and universities. A test fee is required for the advanced placement exam.

**ADVANCED PLACEMENT COMPUTER SCIENCE A**      Credit: **1**Weight: **8**Grades: **10-11-12**

Repeatable for Credit: No

Meets: **Daily/Semester or Every other day/Year**

Dept: MATHEMATICS

Prerequisite: Level 1 students: Earn a minimum grade of a B- in Algebra II.

Honors level students: Can go directly into AP Computer Science A if the student earns a C- in Algebra II Honors. This course may only count as a math credit if it is the last course in a student's algebra sequence. However, students wishing to pursue a STEM major are strongly encouraged to continue through AP Calculus

The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures) approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. It is expected that students who enroll in an AP course will take the AP Exam. Students who pass the AP Exam may be eligible for college credit. A test fee is required for the advanced placement exam.

**ADVANCED PLACEMENT STATISTICS**Credit: **1**Weight: **8**Grades: **11-12**

Repeatable for Credit: No

Meets: **Daily/Semester or Every other day/Year**

Dept: MATHEMATICS

Prerequisite: Earned a minimum grade of B- in AA/Trig or Intro to Statistics or earned a minimum grade of C- in PreCalculus. Approved AP Application required.

Advanced Placement Statistics is a college level course specifically designed for accelerated students who wish to receive college credit prior to graduation. The pace is rigorous and it is a good course choice for advanced students who plan to major in any field in college. Students will gain skills in the areas of exploring data (observing patterns and departures from patterns), planning a study (deciding what and how to measure a phenomenon), anticipating patterns (producing models using probability theory and simulation), and statistical inference (confirming models). It is expected that students who enroll in an AP course will take the AP Exam. Students who pass the AP Exam in Statistics may be eligible for college credit from many state colleges and universities. A test fee is required for the advanced placement exam.

**ALGEBRA I**Credit: **1**Weight: **6**Grades: **9**

Repeatable for Credit: No

Meets: **Daily/Semester**

Dept: MATHEMATICS

Prerequisite: Recommendation of PALMS Math Dept. &amp; performance on placement tests

The Algebra I objectives are to develop a thorough understanding of the basic concepts and structure of the real number system and the applications of linear functions. Course content includes operations with real numbers, ways of displaying data, solving equations and inequalities, analyzing graphs of functions and relations, linear models, systems of equations in two variables, exponent rules, polynomials and factoring, and problem solving. By the end of this course students will take the Algebra 1 Keystone exam and need to score proficient or better as a graduation requirement. Students that do not score proficient or better will retake this exam in their Algebra 2 course.

**ALGEBRA I-1 ONLINE**Credit: **1**Weight: **6**

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Grades: **9**

Repeatable for Credit: No

Prerequisite: Recommendation of PALMS Math Dept. &amp; performance on placement tests

Meets: **Daily/Semester**

Dept: MATHEMATICS

This is a web-based course. The Algebra I objectives are to develop a thorough understanding of the basic concepts and structure of the real number system and the applications of linear functions. Course content includes operations with real numbers, ways of displaying data, solving equations and inequalities, analyzing graphs of functions and relations, linear models, systems of equations in two variables, exponent rules, polynomials and factoring, and problem solving.

**ALGEBRA I-A**Credit: **1**Weight: **5**

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Grades: **9**

Repeatable for Credit: No

Prerequisite: Recommendation of PALMS Math Dept. &amp; performance on placement tests

Meets: **Daily/Semester**

Dept: MATHEMATICS

The objectives are to develop a thorough understanding of the basic concepts and structure of the real number system and the applications of linear models. Course content includes operations with real numbers, ways of displaying data, solving equations and inequalities, linear models, and problem solving. This course goes into depth on each topic by presenting various approaches and methods, and also includes real-life applications.

**ALGEBRA I-B**Credit: **1**Weight: **5**

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Grades: **9-10**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Algebra I-A

Meets: **Daily/Semester**

Dept: MATHEMATICS

The objectives are to develop a thorough understanding of the basic concepts and structure of the real number system and the applications of linear and exponential models. Course content includes operations with real numbers, analyzing graphs of functions and relations, linear models, systems of equations in two variables, polynomials, factoring and problem solving. This course goes into depth on each topic by presenting various approaches and methods, and also includes real-life applications. By the end of this course students will take the Algebra 1 Keystone exam and need to score proficient or better as a graduation requirement. Students that do not score proficient or better will retake this exam in their Algebra 2 course.

**ALGEBRA II HONORS**Credit: **1**Weight: **7**

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Grades: **9**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of B- in Honors Geometry @ PALMS

Meets: **Daily/Semester**

Dept: MATHEMATICS

The objectives of Algebra II Honors are to broaden and strengthen the concepts developed in Algebra I Honors and Geometry Honors and to develop logical thinking. Course content includes a study of the real and complex number systems; using algebra and graphing techniques with linear, quadratic, exponential, polynomial, radical and other types of functions to solve problems; working in two or more variables; using equations, inequalities and matrix equations; linear programming; operations with rational and irrational numbers; logarithms; and an introduction to Probability and Statistics. Students in this Honors section will engage in more individual investigations, more advanced applications and more advanced Algebraic topics.

**ALGEBRA II-1**Credit: **1**Weight: **6**

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Grades: **10-11**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Algebra I-1

Meets: **Daily/Semester**

Dept: MATHEMATICS

The objectives of Algebra II-1 are to broaden and strengthen the concepts developed in Algebra I and to develop logical thinking in a problem-solving approach. Course content includes a study of the real and complex number systems using algebra and graphing techniques with linear, quadratic, exponential, polynomial, radical and other types of functions to solve problems working in two or more variables, using equations, inequalities and matrix equations, linear programming, operations with rational and irrational numbers, and an introduction to Probability and Statistics. Students that did not score proficient or better on their first administration of the Algebra I Keystone exams will retake it by the end of this course.

**ALGEBRA II-2**Credit: **1**Weight: **5**

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Grades: **10-11**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Algebra I-B

Meets: **Daily/Semester**

Dept: MATHEMATICS

Course content includes a study of the real and complex number systems; using algebra and graphing techniques with linear, quadratic, exponential, polynomial, radical and other types of functions to solve problems; working in two or more variables; using equations, inequalities and matrix equations; linear programming; and an introduction to probability and statistics. This course goes into depth on each topic by presenting various approaches and methods, and also includes real-life applications. Students that did not score proficient or better on their first administration of the Algebra I Keystone exams will retake it by the end of this course.

**ALGEBRA II-2 ONLINE**Credit: **1**Weight: **5**

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Grades: **11**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Algebra I-B

Meets: **Daily/Semester**

Dept: MATHEMATICS

This is a web-based course. Content includes a study of the real and complex number systems; using algebra and graphing techniques with linear, quadratic, exponential, polynomial, radical and other types of functions to solve problems; working in two or more variables; using equations, inequalities and matrix equations; linear programming; and an introduction to probability and statistics. This course goes into depth on each topic by presenting various approaches and methods, and also includes real-life applications. Students that did not score proficient or better on their first administration of the Algebra I Keystone exams will retake it by the end of this course. Any students that pass Algebra II but do not score proficient or better on the Algebra I Keystone exam will be placed in Algebra III class.

**ALGEBRA III**Credit: **1**Weight: **5**

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Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Algebra II-2

Meets: **Daily/Semester**

Dept: MATHEMATICS

Course content includes a study of the real and complex number systems; using algebra and graphing techniques with linear, quadratic, exponential, polynomial, radical and other types of functions to solve problems; working in two or more variables; using equations and expressions; operations with rational and irrational numbers; and an introduction to right triangle trigonometry. This course goes into depth on each topic by presenting various approaches and methods, and also includes real-life applications for understanding.

**CALCULUS**

Credit: 1

Weight: 6

Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- Pre-Calculus or a minimum grade of A- in AA Trig (**with teacher recommendation**)Meets: **Daily/Semester**

Dept: MATHEMATICS

This course is designed to develop knowledge of differential and integral calculus and applications of calculus. This is the ideal college preparation course for students who will need to take higher levels of mathematics in college. Course content includes elementary functions, the concept of limits, derivatives and their application, differential equations, and the definite integral and its application.

**COMPUTER SCIENCE I (Elective credit only)**

Credit: 1

Weight: 6

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Algebra I

Meets: **Daily/Semester**

Dept: MATHEMATICS

Computer Science I is an intro-level course that teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and the impacts of computing. Various programming languages will be utilized with an emphasis on functions, parameters, and event handlers. This course counts for elective credit only.

**GEOMETRY 1**

Credit: 1

Weight: 6

Grades: **9-10**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Algebra I-1

Meets: **Daily/Semester**

Dept: MATHEMATICS

The objective is to develop knowledge of geometry and its relationships to other mathematics systems. Students will develop and use the processes of inductive and deductive reasoning to affirm or deny conjectures. The course content includes the study of perpendicular and parallel lines, congruent polygons and similar polygons, right triangle properties, circles and related segments, lines, arcs and angles, construction and locus problems, coordinate geometry, and applications of geometry to angle measure, distance, area, volume problems and problem solving.

**GEOMETRY 2**

Credit: 1

Weight: 5

Grades: **10**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Algebra I-B

Meets: **Daily/Semester**

Dept: MATHEMATICS

The objective is to develop knowledge of geometry and its relationships to other mathematics systems. Students will develop and use the processes of inductive and deductive reasoning to affirm or deny conjectures. The course content includes the study of perpendicular and parallel lines, congruent polygons and similar polygons, right triangle properties, circles and related segments, lines, arcs and angles, construction and locus problems, coordinate geometry, and applications of geometry to angle measure, distance, area, volume problems and problem solving.

**INTRODUCTION TO STATISTICS**Credit: **1**Weight: **6**

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Grades: **11-12**Meets: **Daily/Semester**

Repeatable for Credit: No

Dept: MATHEMATICS

Prerequisite: Earned a minimum grade of C- in AATrig or Algebra III. Juniors who have completed Algebra II or Algebra II-2 and need one more math credit, may take Intro to Stats instead of AATrig or Algebra III.

Students will develop skills in statistical thinking, the assessment of credibility, and value of inferences made from data. Students will use statistical reasoning for the manipulation and integration of data. They will explore probability, single sample inferences, population definitions and comparisons, and linear regressions. Students will be exposed to a variety of statistical techniques, tools and resources.

**INTRODUCTION TO STATISTICS ONLINE**Credit: **1**Weight: **6**

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Grades: **11-12**Meets: **Daily/Semester**

Repeatable for Credit: No

Dept: MATHEMATICS

Prerequisite: Earned a minimum grade of C- in AATrig or Algebra III. Juniors who have completed Algebra II or Algebra II-2 and need one more math credit, may take Intro to Stats instead of AATrig or Algebra III.

This is a web-based course in which students will develop skills in statistical thinking, the assessment of credibility, and value of inferences made from data. Students will use statistical reasoning for the manipulation and integration of data. They will explore probability, single sample inferences, population definitions and comparisons, and linear regressions. Students will be exposed to a variety of statistical techniques, tools and resources.

**PRECALCULUS**Credit: **1**Weight: **6**

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Grades: **11-12**Meets: **Daily/Semester**

Repeatable for Credit: No

Dept: MATHEMATICS

Prerequisite: Earned a minimum grade of C- in AATrig or minimum grade of A- in Algebra II-1 (***with teacher recommendation***)

This course is designed to review and expand upon the fundamentals of Algebra and Trigonometry. Additionally, the course will include conics, logarithms, more advanced trig identities, and introduce students to concepts from Calculus. Essential topics for understanding calculus (including but not limited to: sequences and series, limits, and the concept of a derivative) are covered and will give students a solid background for Calculus.

**SAT MATH**Credit: **0.5**Weight: **5**

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Grades: **10-11-12**Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: MATHEMATICS

Prerequisite: Algebra II

A review of the skills, concepts, and tactics to be successful on the Math section of the SAT. Students will learn the format, scoring guidelines, and specific strategies of the SAT. Diagnostic tests will be given throughout the course and at the completion of units, students will be assessed on their growth. ***\*Students must purchase a supplementary workbook*** (approx. \$15)

# MUSIC

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## **CONCERT BAND**

Credit: **1/0.5**

Weight: **5**

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Grades: **9-10-11-12**

Meets: **Every other day/Year**

Repeatable for Credit: Yes

Dept: MUSIC

Prerequisite: Middle School Band or demonstration of performance ability commensurate with entrance level senior high music. Concert band class students are not required to participate in marching band.

The object of Concert Band is to provide ensemble instruction to students of woodwind, brass, and percussion instruments. Instruction in music reading, music phrasing and ensemble performance technique is provided while preparing programs for public performance. The High School Band prepares music of many styles for its educational value. The band will perform winter and spring concerts, and present other concerts outside the district when the opportunity arises. Students must meet minimum performance requirements as determined by the director. After school rehearsals are scheduled to prepare for the concert. Students in concert band are also required to perform in the stands with the marching band at one home football game.

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## **CONCERT CHOIR**

Credit: **1/0.5**

Weight: **5**

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Grades: 9-10-11-12

Meets: **Every other day/Semester/Year**

Repeatable for Credit: Yes

Dept: MUSIC

Prerequisite: None

Concert Choir is an elective for any student in grades 9-12 who loves to sing, and desires to improve their vocal skills while performing within a group. Students explore how to use their voices through preparing a wide variety of music. An emphasis is placed on developing vocal technique, ear training, and musicianship. Concert Choir students also select areas of interest to study, including the piano, pop music, and musical theater. Attendance at winter and spring concerts is required, including additional after school rehearsals to prepare for concerts.

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## **DIGITAL MUSIC**

Credit: **0.5**

Weight: **5**

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Grades: **9-10-11-12**

Meets: **Every other day/Semester**

Repeatable for Credit: No

Dept: MUSIC

Prerequisite: None

Digital Music is an introductory course intended to provide fundamental knowledge of aspects pertaining to digital music creation. This course will focus on the creation of musical composition, sequencing, and elements of theory through the use of electronic keyboards, MIDI and audio devices. This course will examine the technical aspects of digital music production including keyboard performance, sound recording, multi-track sequencing, composition, and film scoring. Instruction in computer-based music reading, notation, and composition is provided during an intensive study of digital music. The course will also examine preparation for Internet uploading, podcasting and creative music rights. Knowledge and participation in music is helpful, but not necessary.

**GUITAR CLASS I**Credit: **0.5**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: MUSIC

This beginner level guitar class is for anyone interested in learning how to play the guitar. No experience is preferred! Students will learn the necessary skills required to tune and care for a guitar, read music and chord symbols, play major, minor and pentatonic scales, play melodies and harmonies in ensemble, and play chords by strumming in several keys. Popular music will be used to generate interest and encourage daily practice. Creativity will be encouraged through song-writing of a Blues song. Students are encouraged to bring their own guitars, but classroom guitars are available for school use if students do not have access to their own guitar.

**GUITAR CLASS II**Credit: **0.5**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Guitar Class I @ PHS or private lessons

Meets: **Every other day/Semester**

Dept: MUSIC

This level II guitar class will continue where the level one class ends, with the same goal of pursuing life-long learning through the development of a positive attitude about personal goals and potential. The class will review all skills learned in level I, then move on to more in-depth study of pentatonic and blues scales, PIMA picking, and more intricate strumming styles. Popular music using power chords and barre chords will be incorporated to pique student interest and encourage daily practice. Creativity will be encouraged by teaching the skill sets necessary to be able to improvise short melodies over a blues chord pattern. Technology will be put to use through online exercises, such as Music Theory.net, Guitar Guru, et al. Assessments will include written and playing exams, informal and formal observations, and small group performances.

**JAZZ BAND**Credit: **1/0.5**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: Yes

Prerequisite: Middle School Band or demonstration of performance ability commensurate with entrance level senior high music.

Meets: **Every other day/Semester**

Dept: MUSIC

The objective of this course is to study and perform Jazz music of many styles. The course is designed for performers on: flute, saxophone, trumpet, trombone, guitar, piano, vibes, string bass (electric or acoustic), and drum set and accessory percussion. Members of the class must show proficiency on their instrument equal to Level 4 (medium) music. While the main objective of the course is to prepare for public performance, instruction in theory, jazz harmony, jazz styles and improvisation will be offered as it pertains to the music being studied in class. After school rehearsals are scheduled to prepare for the concert. **Students in jazz band are required to perform as a member of the concert band and attend rehearsals for the ensemble.** Students in concert band are also required to perform in the stands with the marching band at one home football game.

**MADRIGAL SINGERS**Credit: **1/0.5**Weight: **5**

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Grades: **9-10-11-12**Meets: **Every other day/Year**

Repeatable for Credit: Yes

Dept: MUSIC

Prerequisite: By audition - must have been in Concert Choir, Band or Orchestra to be eligible.

A scheduled group of 16 to 24 singers will be chosen by audition to perform a variety of Choral Music. Each singer must display a high level of individual musicianship and vocal production. The performing group will sing during the school year for various community functions and will represent the Palisades Vocal Music Department when traveling outside the district, including Honors Choir auditions. Some highlights of the year are Christkindlmarkt, Quakertown Choral Festival, and an A Cappella Festival.

Attendance at all Madrigal Singer and Concert Choir functions is required. Singers (grade 9-11) may audition in spring for the following school year.

**MUSIC PACT (PIANO, APPRECIATION, COMPOSITION THEORY)** Credit: **1**Weight: **5**

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Grades: **10-11-12**Meets: **Daily/Semester**

Repeatable for Credit: No

Dept: MUSIC

Prerequisite: None

Music Pact is highly recommended for anyone interested in pursuing a career in music, but is available to all students with a sincere interest in acquiring music-reading, singing, and piano skills. Students will generate original compositions using a variety of notation forms, including traditional notation. By the end of this course, students will have a wide range of musical experiences regarding a variety of musical topics.

**MUSIC PACT (PIANO, APPRECIATION, COMPOSITION THEORY) ONLINE** Credit: **1**Weight: **5**

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Grades: **10-11-12**Meets: **Daily/Semester**

Repeatable for Credit: No

Dept: MUSIC

Prerequisite: None

Offered as an Asynchronous online course, Music Pact is highly recommended for anyone interested in pursuing a career in music, but is available to all students with a sincere interest in acquiring music-reading, singing, and piano skills. Students will generate original compositions using a variety of notation forms, including traditional notation. By the end of this course, students will have a wide range of musical experiences regarding a variety of musical topics.

**MUSICAL THEATER WORKSHOP**Credit: **0.5**Weight: **5**

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Grades: **9-10-11-12**Meets: **Every other day/Semester**

Repeatable for Credit: Yes

Dept: MUSIC

Prerequisite: None

The objective of Musical Theater Workshop class is to learn about all aspects of musical theater performance including acting technique, improvisation, stage management, singing, and dancing. Students will explore how character motivation impacts acting choices, while studying selections from Musical Theater's vast collection of shows. Students study song selections and scenes utilizing a variety of acting and improvisation techniques.

**STRINGS**Credit: **1/0.5**Weight: **5**Grades: **9-10-11-12**Meets: **Every other day/Year**

Repeatable for Credit: Yes

Dept: MUSIC

Prerequisite: None

This course is for students who play orchestral string instruments. Opportunities will be given for a small ensemble and a full orchestra with an emphasis on developing musical as well as technical skills. The string class uses a self-paced approach to learning music theory.

**SCIENCE****Science course sequence:**

Grade Level	Level 1	Level 2
9	Biology 1 *Students who have completed Algebra I may take Chemistry I, sophomore students are given priority	Biology 2
10	Chemistry I *Students who have completed prerequisites may take Physics I or an AP science course, upperclassmen are given priority	Applied Chemistry
11	Physics I	Applied Physics
12	Choice of Science	Choice of Science

**ADVANCED PLACEMENT BIOLOGY**Credit: **1**Weight: **8**Grades: **11-12**Meets: **Every other day/Year**

Repeatable for Credit: No

Dept: SCIENCE

Prerequisite: Earned a minimum grade of C- in Biology &amp; Chemistry I and Approved AP Application

In the Advanced Placement Biology course, students will continue their study of living systems by exploring the biochemistry of life, molecular biology, genetics, systems physiology, comparative biology of plants and animals, and selected topics in ecology. Students will participate in class and laboratory activities related to these topics and will develop a working knowledge of the material presented through a varied class format which emphasizes preparation of the student for the AP Exam for college credit in biology. Students are expected to take the AP exam. A test fee is required for the AP exam. Students enrolling in AP Biology are encouraged to take Anatomy & Physiology prior to or at the same time as AP Biology. The themes and topics of these classes support each other well.

**ADVANCED PLACEMENT CHEMISTRY**Credit: **1**Weight: **8**

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Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of B in Chem I, Chem II, &amp; Algebra I (Algebra II &amp; AA Trig are recommended) &amp; Approved AP Application

Meets: **Daily/Semester**

Dept: SCIENCE

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. Lab experiments will be one of the main foci of the course, with a strong emphasis on physical manipulations, processes and procedures, observations and data manipulation, communication, group collaboration, and quantitative and qualitative data analysis. There is a strong emphasis in AP Chemistry on algebraic computations of chemical and mathematical equations. Students are expected to take the AP exam. A test fee is required for the Advanced Placement exam.

**ADVANCED PLACEMENT PHYSICS 1**Credit: **1**Weight: **8**

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Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of B in Algebra 1, Geometry, Algebra 2 and Advanced Algebra Trig; Approved AP Application

Meets: **Daily/Semester**

Dept: SCIENCE

Advanced Placement Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and an introduction to simple circuits. 25 percent of the course will be based upon hands-on laboratory work with an emphasis on inquiry-based investigations. The course includes the use of basic trigonometric functions. No prior course work in physics is required. Students are expected to take the AP exam for which a test fee is required. Summer assignments are required for this course.

**ANATOMY/PHYSIOLOGY I**Credit: **1**Weight: **6**

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Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Biology

Meets: **Daily/Semester**

Dept: SCIENCE

In Anatomy and Physiology, students will investigate the components of body systems. They will describe the functions of the systems so they may analyze diseases and their effects on the human body. Body systems will be studied on a cellular as well as macroscopic level. Lab investigations, dissections, microscope work, cooperative group projects and individual research assignments will be done in combination with text readings and use of technology to further develop an understanding of the human body and how it works. Students will produce laboratory investigations, illustrations, oral reports and other various projects in addition to traditional methods of assessment. This course is recommended for students considering a career in health-related fields.

**ANATOMY/PHYSIOLOGY II**Credit: **1**Weight: **6**Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Anatomy &amp; Physiology I

Meets: **Daily/Semester**

Dept: SCIENCE

In Anatomy and Physiology II, students will continue their investigation of the components of body systems. The focus will be on the interaction of the structures of the human body and how they affect its function. This will include the analysis of diseases and their effects on the human body. Body systems will be studied on a cellular as well as macroscopic level. Lab investigations, dissections, microscope work, cooperative group projects and individual research assignments will be done in combination with text readings and the use of technology to further develop an understanding of the human body and how it works. Students will produce laboratory investigations, illustrations, oral reports and other various projects in addition to traditional methods of assessment. This course is recommended for students considering a career in health-related fields and is a recommended course within the Medical Career Pathway.

**APPLIED CHEMISTRY**Credit: **1**Weight: **5**Grades: **10-11**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: SCIENCE

Through the use of demonstrations, hands-on exploration, and self-discovery, this course allows students to learn chemistry concepts that require fewer higher-level math skills. Many practical applications are given to support the chemical concepts discussed in this course. This class is not for those students considering a science, medical or health-related career.

**APPLIED PHYSICS-SPORTS**Credit: **1**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: SCIENCE

Physics can be understandable for all students! The course provides a more practical approach to the study of physics. Only basic algebra skills are required for the successful completion of this course. Using a thematic approach, Applied Physics-Sports uses hands-on activities to study the physics of sports. Some topics of study may include straight-line motion, projectile motion, momentum, and energy conservation.

**APPLIED PHYSICS-TRANSPORTATION**Credit: **1**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: SCIENCE

Physics can be understandable for all students! The course provides a more practical approach to the study of physics. Only basic algebra skills are required for the successful completion of this course. Using a thematic approach, Applied Physics-Transportation uses hands-on activities to study the physics found in automobiles, planes, hot air balloons, backhoes, etc.-any conveyance that transports something. Some topics of study may include floating and sinking, straight-line motion, and Bernoulli's Principle.

**APPLIED PHYSICS ONLINE**

Credit: 1

Weight: 5

Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: SCIENCE

Physics can be understandable for all students! The course provides a more practical approach to the study of physics. Only basic algebra skills are required for the successful completion of this course. Some topics of study may include straight-line motion, projectile motion, momentum, and energy conservation.

**BIOLOGY**

Credit: 1

Weight: 6 (Level 1) 5 (Level 2)

Grades: **9**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: SCIENCE

The objective of biology is to develop a basic literacy in the underlying themes of life. The course will also prepare students for the Pennsylvania Keystone Biology exam. Eight units of study will be covered: basic biological principles, the chemical basis for life, bioenergetics, homeostasis and transport, cell growth and reproduction, genetics, theory of evolution, and ecology. Students will investigate each unit using inquiry-based laboratory activities and group work along with traditional teaching methods. Upon completion of the course, students will take the Pennsylvania Keystone Biology exam.

**CHEMISTRY I**

Credit: 1

Weight: 6

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Minimum grade of B- in Alg I is recommended, but not required.

Meets: **Daily/Semester**

Dept: SCIENCE

The objective of Chemistry I is to involve students in the investigations of chemical systems and the connections between science and other courses. The basic generalizations that will be stressed are the chemical bond, periodicity in the behavior of the chemical elements, the quantum mechanical model of the atom, molecular structure, the mechanics of chemical reactions, the gas laws concept of the mole, and science and technology. The course is designed so that students can gain an understanding of the applications of basic chemistry. Students with a stronger algebraic background will feel more comfortable with the mathematical applications of this class.

**CHEMISTRY I BLENDED**

Credit: 1

Weight: 6

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a grade of B- in Algebra I is recommended, but not required.

Meets: **Daily/Semester**

Dept: SCIENCE

This is a web-based course taught in a blended format. The objective of Chemistry I is to involve students in the investigations of chemical systems and the connections between science and other courses. The basic generalizations that will be stressed are the chemical bond, periodicity in the behavior of the chemical elements, the quantum mechanical model of the atom, molecular structure, the mechanics of chemical reactions, the gas laws concept of the mole, and science and technology. The course is designed so that students can gain an understanding of the applications of basic chemistry. Students with a stronger algebraic background will feel more comfortable with the mathematical applications of this class.

**CHEMISTRY II**Credit: **1**Weight: **6**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Chem I &amp; Alg II or equivalent

Meets: **Daily/Semester**

Dept: SCIENCE

The objective of Chemistry II is to provide students with the opportunity to further their study of chemistry in a rigorous academic and project-oriented environment. Topics of study may include thermodynamics, biochemistry, equilibrium, analytical chemistry, electrochemistry, and basic instrumental analysis and environmental chemistry. This course has a strong emphasis in algebra and trigonometry as it applies to chemistry. Chemistry II will also serve as pre-AP Chemistry, helping to prepare students for the rigor and content of Advanced Placement Chemistry. Students who take Chemistry II are not required to continue on to take AP Chemistry, but it will be an option.

**EARTH & SPACE SCIENCE**Credit: **1**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: SCIENCE

In Earth and Space Science, students will study topics in geology, chemistry, physics, oceanography, meteorology, and astronomy. Students will apply concepts learned in mathematics to calculations including density, speed of waves, percents, gravitation, and angles. Students will use their understanding to explain Earth's processes and make predictions. Students will produce cooperative projects, perform activities and laboratory investigations, interact with their text, technology and other references, as well as be assessed through traditional and alternative methods.

**MEDICAL CAREERS SEMINAR (BLENDED)**Credit: **1**Weight: **5**Grades: **12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: SCIENCE

Students will develop a broad understanding of the field of medicine past, present and future. Through direct instruction, research, guest speakers, and field experiences, students will gain an understanding of opportunities in the medical field. They will explore aspects of careers of interest, such as job requirements, how to be a competitive candidate, pathways to qualify for a job in that field, and current issues in the field. Students will go off-site to complete a number of field experiences during class and will be required to present information on their experiences. The course will use a blended model of learning to enable students to individualize career exploration experiences.

**NATURAL & ENVIRONMENTAL SCIENCE**Credit: **1**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Biology

Meets: **Daily/Semester**

Dept: SCIENCE

In Natural and Environmental Science, students will describe the components of ecosystems, their interactions and interdependence. They will investigate man's effects on ecosystems and our use of energy. Global, regional, and local environmental problems will be studied. Students will become adept at the identification of representative members of the various natural populations in our area. During this course, students will produce cooperative projects, perform activities and laboratory investigations, interact with their text, technology, and other references, as well as be assessed through traditional and alternative methods. This course is not available to students who have already completed and passed either Natural & Environmental Science Online or Applied Ecological Science.

**NATURAL & ENVIRONMENTAL SCIENCE ONLINE** Credit: **1**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Biology

Meets: **Daily/Semester**

Dept: SCIENCE

In Online Natural & Environmental Science, students will study the components of ecosystems and how they function. They will investigate human impacts on the environment at local, regional and global levels. Topics include issues with water, air, land and energy. During this course, students will use various online resources and interactive activities to explore the topics. Students will participate in online discussions and complete individual projects. Students interested in this course should feel comfortable with the use of computers and be self-motivated. This course is not available to students who have already completed and passed either Natural & Environmental Science or Applied Ecological Science.

**PHYSICS I**Credit: **1**Weight: **6**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Alg II-1

Meets: **Daily/Semester**

Dept: SCIENCE

The objective of Physics I is to help students discover the laws and principles that describe the interaction of matter and energy and to use these discoveries to predict future events in a variety of applications: kinematics, dynamics, momentum, energy, and work. The students will observe, measure, reason analytically, and perform mathematical calculations to successfully design and complete lab experiments, understand and explain concepts, apply concepts to "real life", and interpret and solve mathematical problems. Algebra and geometry concepts are necessary for the successful completion of Physics I. A working knowledge of three trigonometric relationships (sine, cosine, and tangent) is also necessary but will be taught in the course.

**PHYSICS II**Credit: **1**Weight: **6**Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Physics I

Meets: **Daily/Semester**

Dept: SCIENCE

Using a non-calculus approach, the student in Physics II will build upon the mechanics foundation laid in Physics I. Students will use algebra and trigonometry as mathematical tools to explore topics such as work & energy, waves & sound, light & optics, thermodynamics, fluid mechanics, and electricity. Mathematical problem solving, laboratory experimentation, demonstrations, class discussion, and self-directed learning enable motivated students to get an in-depth view into these areas of physics.

## **SOCIAL STUDIES**

### **ADVANCED PLACEMENT EUROPEAN HISTORY**

Credit: **1**

Weight: **8**

Grades: **12**

Repeatable for Credit: No

Prerequisite: Earned B or better in U.S. and the World III (level 1) or AP United States History & Approved AP application

Meets: **Every other day/Year**

Dept.: SOCIAL STUDIES

The AP European History course focuses on developing students' understanding of European history from approximately 1450 to the present. The course has students investigate the content of European history while developing the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. Students will be required to read selections from a variety of college level history books, as well as numerous primary and secondary source supplementary materials. Frequent essays will be written to prepare the student for the Advanced Placement European History examination, which the student is encouraged to take upon the conclusion of the course. Colleges may grant credit based upon a student's score. A test fee is required for the Advanced Placement exam.

### **ADVANCED PLACEMENT US HISTORY**

Credit: **1**

Weight: **8**

Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Earned a B or better in United States & World II and in Modern World History (level 1) and Approved AP Application.

Meets: **Every other day/Year**

Dept.: SOCIAL STUDIES

Advanced Placement U.S. History is designed to give students a grounding in U.S. History and in interpretive questions derived from the study of selected themes. Students will be required to read a comprehensive textbook and a collection of supplementary articles and/or primary sources. Students may be required to read one or more book-length studies of a particular era or event. Frequent essays will be written on topics being studied. Students are expected to take the Advanced Placement U.S History examination prepared by the College Board for college credit. Colleges may grant credit based upon a student's score. A test fee is required for the Advanced Placement exam. If a student takes this course in their junior year it will replace the U.S. and the World III course.

### **CULTURAL DIVERSITY**

Credit: **1**

Weight: **6 (Level 1) 5 (Level 2)**

Grades: **12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

This course focuses on developing social awareness, respect for others, and knowledge of cultural diversity as students prepare to take their place in a pluralistic and complex world. This course will cover larger units focused on current world events such as Culture, Religion, Gender, and Race. Students will have opportunities to learn and practice skills that will enable them to confront the contemporary political and humanitarian challenges of the world in the 21st century. Cultural Diversity is for the student who requires some structure and guidance in completing the senior project. Between 30% and 60% of the course will be devoted to the completion of the senior project as per the academic level of the class.

**CULTURAL DIVERSITY ONLINE**Credit: **1**Weight: **6**

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Grades: **12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C in U.S. &amp; World III-1 and in English 11-1, department approval, and mandatory availability to meet with the instructor periodically throughout the semester.

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

In the online course students will focus on developing social awareness, respect for others, and knowledge of cultural diversity as students prepare to take their place in a pluralistic and complex world. This course will cover larger units focused on current world events such as Culture, Religion, Gender, and Race. Students will have opportunities to learn and practice skills that will enable them to confront the contemporary political and humanitarian challenges of the world in the 21st century. Cultural Diversity is for the student who requires some structure and guidance in completing the senior project. Between 20% and 40% of the course will be devoted to the completion of the senior project as per the academic level of the class.

**ECONOMICS**Credit: **1**Weight: **5**

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Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

Economics is an elective designed to give a basic understanding of important concepts and understandings in this discipline for students in the 21st century. A primary objective of the teaching of economics is to prepare students to make rational decisions, as individuals and as members of society based on objective analysis, and on the values of the choice makers. Students who elect this course will have abundant opportunities to develop skills in the areas of evaluation, analysis, interpretation, problem solving, decision making, and interdisciplinary studies and activities. The course incorporates math skills into most units.

**ECONOMICS ONLINE**Credit: **1**Weight: **5**

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Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

This is a web-based course designed to give a basic understanding of important concepts and understandings in this discipline for students in the 21st century. A primary objective of the teaching of economics is to prepare students to make rational decisions, as individuals and as members of society based on objective analysis, and on the values of the choice makers. Students who elect this course will have abundant opportunities to develop skills in the areas of evaluation, analysis, interpretation, problem solving, decision making, and interdisciplinary studies and activities. The course incorporates math skills into most units.

**GOVERNMENT & DEVELOPMENT OF PUBLIC POLICY** Credit: 1

Weight: 6

Grades: 12

Repeatable for Credit: No

Prerequisite: Earned a B or better in Modern World History or US and the World III (level 1)

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

This course may count as the Social Studies senior requirement. This course focuses on the principles, structures and decision-making processes of the United States government at the national, state, and local levels. It demonstrates how the government affects the lives of ordinary citizens and students and how they, in turn, can participate in the democratic process and influence government decision-making. Through a wide variety of readings, case studies, simulations and activities, students will have opportunities to analyze issues, make decisions, and take action both inside and outside the classroom. Students will also complete a ten-page research paper as part of their graduation requirements.

**MODERN WORLD HISTORY**

Credit: 1

Weight: 6 (Level 1) 5 (Level 2)

Grades: 10

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

Modern World History (1900-present) is designed to give the student an awareness of the developments in history and culture around the world in the 20th century and into the 21st century. Students will participate in class discussions, simulations and various other activities. They will complete readings, reports, critical thinking activities and projects to establish the historical background which will enable them to understand the cultural and social developments in the regions studied. To help develop historical thinking skills, students will interpret primary and secondary sources and utilize documents as they write analytical pieces.

**NON-WESTERN HISTORIES & CULTURES**

Credit: .5

Weight: 6

Grades: 9-10-11-12

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept.: SOCIAL STUDIES

Non-Western History focuses on 1900-present Asian, South-East Asian, Australian and African History. Utilizing class discussions, readings, projects and other activities the course is designed to give the student an awareness of the developments in history and culture in these often less studied areas of the world. To help develop historical thinking skills, students will interpret primary and secondary sources and utilize documents as they write analytical pieces.

**RACISM & GENOCIDE**

Credit: .5/1.0

Weight: 6

Grades: 10-11-12

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept.: SOCIAL STUDIES

**This course will run either as a full credit, every day OR a half credit, every other day, dependent upon which option is most requested by students during registration**

This course will seek to investigate the causes and effects of racism within societies. Students will investigate the psychological and sociological theories for why and how prejudice develops in the first place, followed by a deep dive into the often harmful implications that arise due to said biases. We will explore topics of social justice, systemic racism, and outright ethnic violence, by looking into case studies in America and abroad, past and present.

**\*\*Given the sensitive nature of this course, it is important to note that topics and discussions will be conducted in a mature, academic setting. A variety of materials and readings will require higher-level comprehension skills\*\***

**RACISM & GENOCIDE**

Credit: 1.0

Weight: 6

Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept.: SOCIAL STUDIES

**This course will run either as a full credit, every day OR a half credit, every other day, dependent upon which option is most requested by students during registration**

This course will seek to investigate the causes and effects of racism within societies. Students will investigate the psychological and sociological theories for why and how prejudice develops in the first place, followed by a deep dive into the often harmful implications that arise due to said biases. We will explore topics of social justice, systemic racism, and outright ethnic violence, by looking into case studies in America and abroad, past and present.

***\*\*Given the sensitive nature of this course, it is important to note that topics and discussions will be conducted in a mature, academic setting. A variety of materials and readings will require higher-level comprehension skills\*\****

**SPORTS IN AMERICAN SOCIETY**

Credit: .5

Weight: 5

Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept.: SOCIAL STUDIES

The course will focus on the unique place sports occupy in our society. Students will study their transformation from humble beginnings in America to the multi-billion-dollar creation they are today. In addition, special attention will be paid to the special role athletics have played in advancing ethnic minorities and women's equality in our society. Students will work with a variety of primary documents and secondary source materials in the course to raise interest level and maximize learning opportunities.

**U.S. & THE WORLD II**

Credit: 1

Weight: **6 (Level 1) 5 (Level 2)**Grades: **9**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

The course will encompass United States history from 1824 through 1919. This time period includes: first time popular votes, Jacksonian democracy, Antebellum America, the Civil War, Reconstruction and the path to industrialization where the U.S. becomes a leading world power. Students will learn in a variety of ways as they focus on exciting time periods. A requirement of this class is the completion of a 3 to 5-page research paper which will include focused instruction on thesis writing, outlining, and an introduction to in-text citations.

**U.S. & THE WORLD III  
(Level 2)**

Credit: 1

Weight: **6 (Level 1) 5**Grades: **11**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of B in Modern World History level 1 or level 2 and English 10-1 or 10-2 & be available to meet with the instructor periodically throughout the semester.

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

The objective of the U.S. & The World III is to provide students with a basic understanding of the events, ideas, attitudes, and institutions which have led to the rise of the modern American nation. Students will focus on the period of the postwar era of the Roaring Twenties to the present. They will study political, social, and economic history, foreign policy, and the development of American society. In addition, the study of government as the foundation and an integral part of the American experience will be included. A requirement of this class is the completion of a 5 to 7-page paper which will include focused instruction on annotated bibliographies and in-text citations.

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Grades: 11

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of B in Modern World History level 1 or level 2 and English 10-1 or 10-2 & be available to meet with the instructor periodically throughout the semester.

Meets: **Daily/Semester**

Dept.: SOCIAL STUDIES

In this web-based course, students will study the development of the modern American nation. Beginning with the post-World War I era of the 1920s, students will study political, social and economic history, foreign policy, and the development of our current American society. In addition, the study of government as the foundation and an integral part of the American experience, will be included. A requirement of this class is the completion of a 5 to 7-page paper which will include an annotated bibliography and in-text citations.



## TECHNICAL SCHOOL

Students interested in attending Upper Bucks Technical School must submit a completed application for the program of their choice. Students interested in attending the tech school for the 22-23 school year must complete an online application. The application is available using this [link](#) and should be completed by February 25th. Completed applications are required to be considered for all shop areas. Videos are available to review the programs through their [website](#) and students/parents are encouraged to view videos for shops for which they are interested in applying. In the event the number of students applying for a particular program exceeds the school district quota for that program, priority is given to the upperclassmen, and a lottery will be held for same grade level students. Students who did not secure a space through the lottery will be put on a waiting list for the next available slot.

***All students enrolled in the technical program will be required to successfully complete the program each year. A final grade of "F" in a shop will prohibit a student from returning to the same shop.***

**AGRICULTURAL TECHNOLOGY & LIFE SCIENCES** Credit: 1st yr: 2/2nd & 3rd yr: 3 Weight: 1st yr: 5, 2nd & 3rd yr: 6

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Grades: 9-10-11-12

Repeatable for Credit: N/A

Prerequisite: None

Meets: **1/2 day every day/Year**

Dept: TECHNICAL SCHOOL

Pathway Program: Technical

Under the guidance of professional staff, students will learn units of study related to animal science (nutrition, reproduction, genetics, health, marketing) and plant science (hydroponics, plant anatomy, taxonomy, genetics, reproduction), biotechnology, cell biology, molecular biology, research methodology and development.

**AUTO COLLISION TECHNOLOGY** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**Grades: **9-10-11-12**

Repeatable for Credit: N/A

Prerequisite: None

Meets: **1/2 day every day/Year**

Dept: TECHNICAL SCHOOL

Pathway Program: Technical

Students learn to perform many activities from assessing to repairing small dents to rebuilding the bodies of damaged vehicles, often using technology such as laser beams and digital assistance. Students are taught the types of materials used in filler compounds, the colors and chemical make-up of paints used to refinish, welding and cutting procedures, design and installation of trim, cost estimation and preparation for finish work. There is extensive training in metal, fiberglass and plastics repair, metal straightening, auto refinishing, spray painting and glass installation. This program has received national certification by NATEF (National Automotive Technicians Education Foundation). Certification available: Pennsylvania State Safety Inspection and Automotive Service Excellence (ASE). Articulation with: Lehigh Carbon Community College, Pennsylvania College of Technology, Automotive Training Center.

**AUTOMOTIVE TECHNOLOGY** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**Grades: **9-10-11-12**

Repeatable for Credit: N/A

Prerequisite: None

Meets: **1/2 day every day/Year**

Dept: TECHNICAL SCHOOL

Pathway Program: Technical

This course emphasizes technical knowledge and repair of automobiles. Students learn to locate and diagnose malfunctions in vehicles using digital instruments and on-board computer systems, make repairs or adjustments and complete periodic inspections for preventive maintenance. Units of instruction include: braking, emissions, engine, electrical, suspension, alignment, fuel, computerized fuel injection and ignition systems. This program has earned national certification by NATEF. (National Automotive Technicians Education Foundation). Certification available: Pennsylvania State Safety and Emission Inspection, Automotive Service Excellence certifications (ASE). Articulation with: Northampton Area Community College, Lehigh Carbon Community College, Pennsylvania College of Technology, Automotive Training Center, University of Northwestern Ohio. Services provided: Brake work, tire work, suspension work, state pre-inspections, oil changes, emission system diagnosis, alignment.

**BAKING & PASTRY ARTS** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**Grades: **9-10-11-12**

Repeatable for Credit: N/A

Prerequisite: None

Meets: **1/2 day every day/Year**

Dept: TECHNICAL SCHOOL

Pathway Program: Technical

The food industry is the nation's largest employer, creating a demand for thousands of skilled women and men every year. Students work with professional chefs to create mouth-watering desserts. Students learn to express their individual creativity through baking while building a solid foundation of essential baking methods with attention to detail and quality. The program operates its own bakery, bake shop, bistro, and catering services, which provide students with the opportunity to interact with customers. Articulation with: Johnson and Wales, Pennsylvania College of Technology. Services provided: LaBella Bistro and Bakery.

**CAREER INTERNSHIP PROGRAM** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**Grades: **12**

Repeatable for Credit: N/A

Prerequisite: None

Meets: **1/2 day every day/Year**

Dept: TECHNICAL SCHOOL

Pathway Program: Technical

In this program, students will have the opportunity to earn and learn in a paid internship experience that they will gain high school credit for their work experience. Students are responsible for securing employment and transportation to and from the job site. Employment can be scheduled during or after the school day, as well as on weekends. Students will be required to meet with the coordinator 45 minutes per week and complete all required time logs, journals and assignments. This program will help them build a resume that will assist them with their college or career.

**CARPENTRY PROGRAM** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**Grades: **9-10-11-12**

Repeatable for Credit: N/A

Prerequisite: None

Meets: **1/2 day every day/Year**

Dept: TECHNICAL SCHOOL

Pathway Program: Technical

Carpenters cut, fit and assemble wood and other materials for the construction of houses, buildings, decks and many other structures. Most carpenters are skilled in both rough and finish carpentry. Rough carpentry includes framing, boarding, sheathing and the installation of sub-flooring, partitions and studying. Finish carpentry includes the installation of finished flooring, stair work, siding, trim, wallboard and hardware. Students will learn to read blueprints, survey, frame and finish from foundation to roof. This program holds certification from the Home Builders' Association (HBA). Certifications available: OSHA Worker Standards certification, Residential Construction Academy, National Association of Home Builders. Articulation with: Pennsylvania College of Technology.

**COMPUTER NETWORKING & CYBER SECURITY** Credit: **1st yr: 2/2nd & 3rd yr: 3** Weight: **1st yr: 5, 2nd & 3rd yr: 6**Grades: **9-10-11-12**

Repeatable for Credit: N/A

Prerequisite: None

Meets: **1/2 day every day/Year**

Dept: TECHNICAL SCHOOL

Pathway Program: Technical

Obtain the knowledge and skills necessary to install, configure, administer, and support the primary services of Microsoft Windows Server operating systems. Be introduced to virtual computing and its uses throughout the computer industry, as well as computer forensics, a branch of forensic science pertaining to legal evidence found in computers and digital media storage. Learn about network cabling technology.

**CONSTRUCTION TECHNOLOGY PROGRAM** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**Grades: **9-10-11-12**

Repeatable for Credit: N/A

Prerequisite: None

Meets: **1/2 day every day/Year**

Dept: TECHNICAL SCHOOL

Pathway Program: Technical

Students learn the residential construction skills needed for a career in the home building and remodeling industry. Hands-on projects involve carpentry, electrical, plumbing, and masonry. Employment opportunities and apprenticeship programs in the field of construction are discussed. The Construction Technology program can lead to a Bachelor's Degree and a profitable career in Construction Management. This program holds certification from the Home Builders' Association (HBA). Certifications available: OSHA Construction Industry certification, National Association of Home Builders. Articulation with: Pennsylvania College of Technology, Northampton Area Community College (pending).

**COSMETOLOGY PROGRAM** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

The exciting art and science of improving beauty through care and treatment of skin, hair and nails is called cosmetology. Cosmetologists shampoo, cut, style, lighten, tint and give permanent waves. They also may give manicures, scalp and facial treatments; provide makeup analysis and shape eyebrows. Students learn how to schedule appointments with clients, sanitize and disinfect equipment, and keep accurate records. These skills are practiced in our on-site beauty salon. Students may show their style by competing against other students in makeup, hair, and nail art competitions. Articulation with: Lehigh Carbon Community College. Students earn hours to qualify for the State Board of Cosmetology licensing exam. Services are available and those offered are similar to those provided in a salon. Appointments needed.

**CULINARY ARTS/QUANTITY FOOD PRODUCTION** Credit: **1st yr: 2/2nd & 3rd yr: 3** Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

This course provides students with the essential skills needed for employment by emulating the food service industry through a school-based restaurant. In addition to skills in culinary arts, students are taught an in-depth safety program, leadership, career development, job seeking and job keeping techniques. The program is delivered through a sequence of performance-based instruction. The course content is based on an occupational analysis of the food service industry and has been adjusted to reflect the job requirements of the local employers. Students will be able to explore the inner workings of successful restaurant operations through field trips. Certification available: Food Safety Manager Certification. Articulation with: Bucks County Community College, Johnson and Wales. Services provided: The Quiet Corner Café is a student operated restaurant which is open to the public.

**DENTAL CAREERS** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

New technology has made dental care high-tech and exciting. In this course, students will gain the knowledge and skills necessary to assist in a dental practice. Students will have the opportunity to practice these skills and gain the experience of working hands-on with various dental professionals in our on-site dental clinic. This experience enhances their abilities and gives the students the qualifications needed to seek immediate employment. It can also be a basis for further education in dental hygiene, dental laboratory technology or dentistry. Students will have the opportunity to use their artistic talents to craft dental prosthetics as well as educate young children on the importance of dental hygiene. Certifications available: CPR, Pennsylvania Radiation Certification. Articulation with: Pennsylvania College of Technology. Services provided: Dental Clinic by appointment only.

**DIESEL TECHNOLOGY** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

The program emphasizes the skills to maintain all types of diesel-powered equipment; repair and maintain related equipment including fire trucks, buses, ambulances, trucks, dozers, graders and exploration equipment; repair and maintain over-the-road trucks; work for dealerships and independent garages performing repairs or rebuilding; and work in related fields such as parts supply, warehousing, equipment sales or customer relations. The course includes hands-on training, introduction to heavy equipment technology, schematics, electrical/electronic theory, hydraulics, mathematics, interpersonal communications, system troubleshooting skills, computer skills, heavy equipment repair and maintenance. Certification available: Pennsylvania State Safety and Emissions Inspection, Automotive Service Excellence certification (ASE). Articulation with: Lehigh Carbon Community College, Pennsylvania College of Technology, Automotive Training Center. Services provided: air conditioning services, clutch repair, brakes, electrical diagnosis and repair, engine diagnostics.

**ELECTRICAL TECHNOLOGY** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

This program incorporates theory and practical experience in generating and transmitting electricity. Students install and maintain communication, security and other electrical systems, using both AC and DC circuits. Students are taught residential wiring and learn how a home is wired from start to finish. In conjunction with these wiring techniques, the National Electrical Code is also taught. Electricity is used in commercial and industrial systems as well. These areas require such skills as blueprint reading, concepts of motors and generators, transformers and working with motor control circuits. Students will prepare for employment in modern commercial settings with motor control and programmable logic controller (PLC) training. Students will also go green and learn about alternative, solar and wind energy systems. This program holds certification from the Home Builders' Association (HBA). Certification available: OSHA Career Safe certification. Articulation with: Pennsylvania College of Technology.

**EXERCISE SCIENCE & SPORTS TECHNOLOGY** Credit: **1st yr: 2/2nd & 3rd yr: 3** Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

This program introduces students to the exercise science and sports technology industry. The program will prepare students for sports medicine, health care, and kinesiology careers. Students will learn medical terminology, safety procedures, nutritional facts, first aid, CPR and basic anatomy and kinesiology. In addition, they will learn theories of building exercise & rehabilitation programs, emergency care, injury recognition, and prevention, along with overall mental and physical health wellness. Units of study will include Health & Well being, legal/ethical issues, injury prevention, emergency care and infection control, treatment, rehabilitation and clinical skills, exercise science and prescription, human development, mental health, medical terminology, and anatomy & physiology. Certification available: AED, CPR, First Aid, NOCTI, Personal Training Certification, OSHA Certification for Healthcare, HIPPA Alliance.

**GRAPHIC COMMUNICATIONS** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

As the fourth largest employer in the United States, the graphic arts industry reproduces words, pictures, paintings, charts and forms onto paper. Students use desktop publishing software to digitally design various forms and custom displays as well as producing traditional methods of offset printing, plate making, image assembly and impositions. The course prepares students for the changing technology in the industry and will help prepare students for additional study at a college or university. Students operate sheet-fed printing presses, digital imaging equipment and various types of bindery machines. Students have the opportunity to earn national Printed certifications. Students will develop a professional portfolio to present to prospective employers and colleges. Articulation with: Bucks County Community College, Pennsylvania College of Technology. Services provided: Graphic design and production of displays and commercial printing for the UBCTS and the sending school districts.

**HEATING, VAC, AIR CONDITIONING/PLUMBING** Credit: **1st yr: 2/2nd & 3rd yr: 3** Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

Under the guidance of professional staff, students will: Diagnose, service, troubleshoot and maintain HVAC and Refrigeration systems, Diagnose, service, and maintain Plumbing systems. The student will earn EPA certification and meet OSHA requirements.

**HEALTH CARE CAREERS** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

The program is designed to introduce students to various health careers; teach students the necessary skills, knowledge and attitude for a job in the healthcare field, and to prepare students for further education in selected careers. Classroom and laboratory instruction are combined with field trips and on-site work at partnering residential care settings and hospitals to expose students to a variety of health career choices. Students will use high-tech equipment such as SimMan, InvaCare Lifts, and the Schiller EKG machine with lung study capability. Certifications available: CPR, First Aid, EMT, Nurse Aide certification and prepare for Pharmacy Technician National Exam. Articulation with: Bucks County Community College, Pennsylvania College of Technology, Montgomery County Community College, Gwynedd-Mercy College.

**LAW ENFORCEMENT** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

Our communities require trained personnel to respond to emergencies, save lives, prevent harm and protect property. This innovative and timely course provides instruction and training in comprehensive public safety. Many students pursue a career in law enforcement, emergency medical, fire or emergency management services. Related areas of employment include private security, industrial safety and government agencies. Students will investigate simulated crime scenes, participate in physical training on par with the State Police Academy, and learn about the force continuum, weapon safety and FireArms Training Simulator (FATS Machine). Certifications available: EMT, CPR, First Aid. Articulation with: Pennsylvania College of Technology, Bucks County Community College

**MACHINING TECHNOLOGIES** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

Almost every product that we use in our daily lives has been associated with a machining process of one type or another. Machine tool operators use power and hand tools to cut, drill, grind and form metal into a desired shape and size with an extremely high degree of accuracy. In this course, students learn to apply mathematical calculations, interpret engineering drawings and CAD/CAM data, use precision metrology equipment, plan machining processes, specify tooling and equipment requirements, use machining equipment (including manual and CNC equipment) and apply metallurgical processes. Machine tools include computers, lathes, drill presses, grinding and milling machines. This course will help develop a sound foundation for a career in engineering and manufacturing. Certification available: National Institute of Metal-Working Skills (NIMS). Articulation with: PA College of Technology, Lehigh Carbon C.C, Northampton Area C.C.

**MECHATRONICS** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

The Mechatronics program offered at UBCTS provides a holistic approach to understanding the physics of automated work. Mechatronics focuses on machines that are controlled by programmable logic and powered by various forms of energy, such as electricity of pressurized fluids (pneumatic/hydraulic). Mechatronic workers design, troubleshoot, maintain and repair sophisticated automated equipment. Areas of study include: Lab Safety, Blueprint reading, electrical systems, electronics, robotics, mechanical systems, fluid power systems, programmable logic controllers and control systems. Articulation with: Pennsylvania College of Technology, University of Northwestern Ohio.

**SMALL ENGINE TECHNOLOGY** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

Students will learn to diagnose and repair small and medium sized engines. In doing so, they will work with new and old technologies, from gasoline to electric. Students will work on motorcycles, snow mobiles, tractors, boat motors, and much more.

**VETERINARY ASSISTING** Credit: **1st yr: 2/2nd & 3rd yr: 3**Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

This program introduces students to the exciting and dynamic animal care industry. By choosing a career in this area, students are stepping into a field that is growing and constantly changing. The program is an animal science course covering scientific principles in large and small animal care, breeding, selection, nutrition and management. Students will develop veterinary clinical skills such as assessing animal health and administering medications. Students participate in supervised occupational experiences where proper handling, health care and breed identification are learned in our active large and small animal facilities. Students will work as a team with other students to manage a daycare for dogs in our licensed kennels as well as raise a variety of animals including sheep, pigs, chinchillas, snakes, and ferrets. The student organization, FFA, provides students with the opportunity to develop leadership skills among peers and community. Certification available: Certified Pet Care Technician. Services provided: Dog Daycare, Dog Bathing.

**WELDING TECHNOLOGIES** Credit: **1st yr: 2/2nd & 3rd yr: 3**

Weight: **1st yr: 5, 2nd & 3rd yr: 6**

Grades: **9-10-11-12**  
Repeatable for Credit: N/A  
Prerequisite: None

Meets: **1/2 day every day/Year**  
Dept: TECHNICAL SCHOOL  
Pathway Program: Technical

Students become skilled in all types of welding that are common in our area as well as the use of metal cutting, forming equipment, flammable gasses, hand and power tools. Students pursuing a welding career need to have excellent depth perception, fine-motor coordination, sound judgment, good eyesight, and high math aptitude. Students will fabricate individual and team projects for real world applications. They will participate in state-of-the-art virtual reality weld training and learn to melt, form, fuse, and cut metal to specifications. Certification is recommended and is a routine component of the course. This program is certified by the American Welding Society. Certifications available: American Welding Society entry level certification, Welding Code certification. Articulation with: Pennsylvania College of Technology, Lehigh Carbon Community College, Northampton Area Community College. Services provided: General welding repair and fabrication as deemed feasible.



## **WELLNESS AND FITNESS**

**DRIVER EDUCATION**

Credit: **0.5**

Weight: **5**

Grades: **9-10-11-12**  
Repeatable for Credit: No  
Prerequisite: None

Meets: **Every other day/Semester**  
Dept: WELLNESS & FITNESS

The primary goal of Driver Education is designed to help students become responsible drivers, well aware of – and better able to manage – the risks associated with driving. Driver Education also addresses such issues as resisting harmful peer and social pressures, exercising emotional control, and developing social responsibility. This course also provides students with an opportunity to learn the meaning of risk, how to avoid high-risk situations and how to minimize them if they're unavoidable. Throughout the text, students are given practical driving instruction, helpful tips and information, and risk-management strategies. Typical driving situations are described to engage students in evaluating and considering how they would manage risk. The goal of this course is to teach students about the factors that have an impact on driving so they will gain the confidence necessary to become safe and responsible drivers.

**DRIVER EDUCATION (Online)**

Credit: **0.5**

Weight: **5**

Grades: **9-10-11-12**  
Repeatable for Credit: No  
Prerequisite: None

Meets: **Every other day/Semester**  
Dept: WELLNESS & FITNESS

The primary goal of Driver Education is designed to help students become responsible drivers, well aware of – and better able to manage – the risks associated with driving. Driver Education also addresses such issues as resisting harmful peer and social pressures, exercising emotional control, and developing social responsibility. This course also provides students with an opportunity to learn the meaning of risk, how to avoid high-risk situations and how to minimize them if they're unavoidable. Throughout the text, students are given practical driving instruction, helpful tips and information, and risk-management strategies. Typical driving situations are described to engage students in evaluating and considering how they would manage risk. The goal of this course is to teach students about the factors that have an impact on driving so they will gain the confidence necessary to become safe and responsible drivers.

**GROUP FITNESS**Credit: **0.5**Weight: **5**

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Grades: **10-11-12**

Repeatable for Credit: Yes

Prerequisite: Physical Education I

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

This course will focus on some of the following aerobic activities: walking/jogging, yoga, Pilates, kickboxing, self-defense, and dance fitness. This course will also focus on current group fitness trends. We will continue to develop all areas of fitness through regular physical education participation, as well as through the above-mentioned activities. Physical Education is required for a minimum of three semesters throughout a student's high school career.

**HEALTH**Credit: **0.5**Weight: **5**

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Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

In this course, students will learn about the following topics: nutrition & fitness; substance abuse; human sexuality; mental health; & healthy relationships. This course will incorporate mini-lectures, group work, readings, discussions, presentations, reflections, and various projects into the learning process.

**HEALTH (Online)**Credit: **0.5**Weight: **5**

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Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

In this web-based course, students will learn about the following topics: nutrition & fitness; alcohol, tobacco, & drugs; human sexuality; mental health; & healthy relationships. This course will incorporate readings, discussions, audio and video presentations, reflection, and various projects into the learning process.

**PHYSICAL EDUCATION I**Credit: **0.5**Weight: **5**

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Grades: **9**

Repeatable for Credit: No

Prerequisite: None

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

Physical Education is essential for the healthy development of each student and our community as a whole. The well-being of our students will largely determine the quality of life they will have throughout their lifetime. To thrive in our ever-changing society, our students will acquire and use knowledge, skills, and habits necessary to promote individual, family and community wellness and personal fitness. Cardiovascular fitness and ways to assess your fitness will be stressed. This is a mandatory course that must precede all other Physical Education course options. This course will provide students with a focus on "Getting to Know" the fitness center. In addition, they will be participating in various activities, which will provide students with a "glimpse" into their future course options.

**PHYSICAL EDUCATION II**Credit: **0.5**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Physical Education I

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

This course is an extension of Physical Education I and will be comprehensive in its activities. The course will not focus on any one specialty; rather will address all content areas such as personal conditioning, aerobics, team sports, and lifetime fitness.

**PHYSICAL EDUCATION (Online)**Credit: **0.5**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Physical Education I/Waive for UBCTS students

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

Throughout this Online Physical Education course, students will be expected to complete all written assignments, activities, and projects as well as submit them properly. Students will be expected to perform the required physical activities. Students will also be expected to video tape certain activities to ensure that proper technique and form is being executed. It is the student's responsibility to work through the course at a self-directed pace.

**LIFETIME FITNESS**Credit: **0.5**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: Yes

Prerequisite: Physical Education I

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

This course will focus on individual or partner lifetime activities (tennis, disc golf, paddleball, badminton, volleyball, walking courses, and fitness). Students will develop their knowledge and skill level, as well as transfer these skills into game play. We will practice proper warm-up and cool-down activities; however, most fitness will be gained through the activities.

**PERSONAL CONDITIONING**Credit: **0.5**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: Yes

Prerequisite: Physical Education I

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

This course will focus on individualized personal conditioning programs using all school exercise facilities (fitness center, gymnasium, track, turf, and other athletic fields.) Students will be responsible for the design, implementation, monitoring, and evaluation of their workouts. Students will be working to meet their own personal fitness goals, as well as improve in all five components of fitness. Students will be introduced to and practice various training principles, as well as more advanced exercises and the latest developments in training.

**TEAM SPORTS**Credit: **0.5**Weight: **5**Grades: **10-11-12**

Repeatable for Credit: Yes

Prerequisite: Physical Education I

Meets: **Every other day/Semester**

Dept: WELLNESS &amp; FITNESS

This course will mostly focus on competitive team sports (soccer, basketball, football, volleyball, softball, hockey, etc.). There will be a heavy focus on developing skills, as well as transferring the skills into high-level game play. There will be a combination of teacher and student led instruction (player/coaches). We will practice proper warm-up and cool-down activities, however, most fitness will be gained through the activities.

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## **WORLD LANGUAGE AND CULTURES**

**AP FRENCH, GERMAN or SPANISH LANGUAGE & CULTURE** Credit: **1**Weight: **8**Grades: **11-12**

Repeatable for Credit: No

Prerequisite: at least a B- in World Language IV &amp; Approved AP Application

Meets: **Every other Day/Semester**

Dept: WORLD LANGUAGE

The Advanced Placement language course is designed to develop and refine the skills that have been acquired in the four previous levels. The course utilizes a thematic approach to achieve functional language proficiency in listening, speaking, reading, and writing on an intermediate college level is the course goal. The development of vocabulary to support these four language skills is essential. Emphasis will be placed upon the student's ability to understand the spoken and written language, as well as the student's ability to accurately express ideas in speaking and writing. In addition to the textbooks, a variety of audio-visual materials and readings will be used. Compositions, listening activities, and supplementary readings will be required, as well as the completion of summer assignments. At the conclusion of the course, students are expected to take the Advanced Placement exam which may earn college credit. A test fee is required for the AP exam. This course fulfills an elective requirement for the Global Studies Pathway.

**FRENCH I or GERMAN I or SPANISH I**Credit: **1**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: None

Meets: **Daily/Semester**

Dept: WORLD LANGUAGE

In Level I, the student will be introduced to the four language skills, listening, speaking, reading, and writing and will develop cultural awareness. Participation in various activities which emphasize pronunciation, vocabulary, and structure will aid the student in producing language for effective communication.

**FRENCH II or GERMAN II or SPANISH II**Credit: **1**Weight: **5**Grades: **9-10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Level I

Meets: **Daily/Semester**

Dept: WORLD LANGUAGE

In Level II, the student will further develop the four language skills and cultural awareness introduced in level I. Emphasis continues to be on pronunciation, vocabulary growth, and structure. The student will participate in activities to promote oral and written proficiency.

**FRENCH III or GERMAN III or SPANISH III**Credit: **1**Weight: **6**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Earned a minimum grade of C- in Level II

Meets: **Daily/Semester**

Dept: WORLD LANGUAGE

In Level III, the student will achieve increased proficiency in the four language skills and will continue to develop cultural awareness. The student will continue to expand the vocabulary base and will employ more complex structures to communicate effectively. If enrolled in the Global Studies Pathway, one Level III course needs to be successfully completed.

**FRENCH IV or GERMAN IV or SPANISH IV**Credit: **1**Weight: **6**Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: Earned minimum grade of C- in Level III

Meets: **Daily/Semester**

Dept: WORLD LANGUAGE

In Level IV, the student will demonstrate increased comprehension of longer and more complex authentic sources. The student will expand and refine speaking and writing skills and will be able to summarize, discuss, and express opinions on a variety of themes. The student will also demonstrate a heightened awareness of culturally appropriate behavior. If enrolled in the Global Studies Pathway, one level IV course needs to be successfully completed.

**GLOBAL ISSUES SEMINAR**Credit: **0.5**Weight: **6**Grades: **11-12**

Repeatable for Credit: No

Prerequisite: Completed two consecutive levels of the same language at PHS.

Meets: **Every other day/semester**

Dept: WORLD LANGUAGE

In the Global Issues Seminar students will build their global competency to investigate, evaluate, and participate as productive members of the global community. Not only will current issues be discussed, but the history that has shaped our current societies and their practices will be analyzed. This course is required for students in the Global Studies Pathway and is recommended for students considering a career with a global focus. As part of the course, students will take part in a multitude of learning opportunities. A variety of topics will be discussed and researched based upon current events and world issues. Other units of study will include: globalism, international organizations and human rights, the environment, world health, global migration patterns, and religion. This is the required capstone course for the Global Studies Pathway. Due to the limited number of seats, preference will be given to students in the Global Studies Pathway.

**LESS COMMONLY TAUGHT LANGUAGES: ARABIC**

Credit: 0.5

Weight: 6

Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: &gt;B- in a Level III World Language

Meets: **Every other day/Semester**

Dept: WORLD LANGUAGE

This World Language elective course focuses on introducing students to Less Commonly Taught Languages (LCTLs) and their cultures. One of the objectives of the course is to equip students with the skills needed to learn LCTLs independently for future academic, personal or professional goals. From a linguistic perspective, students will explore the relationships among world languages by utilizing their knowledge from previously studied world languages (i.e. French, German and Spanish). Via computer assisted language software and videos, students will become acquainted **with everyday conversational phrases in Arabic and a second independently explored LCTL of his/her choice**. In addition, foundational activities will explore the concept of global citizenship and students' participation in the global community now and in the future. Students will use authentic resources to compare and contrast contemporary cultural practices and products. Students will access the cultures through the study of current events and issues. Culture will be explored through the lenses of film, art, music, literature and media. Note: Students will be expected to purchase their own headset with microphone for use in the course. This course (as well as upper level language study) fulfills an elective requirement of the Global Studies Pathway and enriches the Business Career Pathway.

**LESS COMMONLY TAUGHT LANGUAGES: CHINESE**Credit: **0.5**

Weight: 6

Grades: **10-11-12**

Repeatable for Credit: No

Prerequisite: &gt;B- in a Level III World Language

Meets: **Every other day/Semester**

Dept: WORLD LANGUAGE

This World Language elective course focuses on introducing students to Less Commonly Taught Languages (LCTLs) and their cultures. One of the objectives of the course is to equip students with the skills needed to learn LCTLs independently for future academic, personal or professional goals. From a linguistic perspective, students will explore the relationships among world languages by utilizing their knowledge from previously studied world languages (i.e. French, German and Spanish). Via computer assisted language software and videos, students will become acquainted with **everyday conversational phrases in Mandarin Chinese and a second independently explored LCTL of his/her choice**. In addition, foundational activities will explore the concept of global citizenship and students' participation in the global community now and in the future. Students will use authentic resources to compare and contrast contemporary cultural practices and products. Students will access the cultures through the study of current events and issues. Culture will be explored through the lenses of film, art, music, literature and media. Note: Students will be expected to purchase their own headset with microphone for use in the course. This course (as well as upper level language study) fulfills an elective requirement of the Global Studies Pathway and enriches the Business Career Pathway.

## OTHER LEARNING OPPORTUNITIES

Palisades High School offers students unique learning opportunities which extend beyond the traditional school setting and allow students to excel in a variety of areas. These opportunities include the following:

### **Career Internship Program**

Palisades High School offers an opportunity for ALL students to earn elective credits towards graduation by gaining valuable work experience that will assist them with their college or career. The work-based experience will occur during school hours based upon a student's schedule (late arrival/early dismissal). The Upper Bucks County Technical School (UBCTS) will be responsible for evaluating the work site and student performance which includes student attendance. The student is responsible for their own transportation. UBCTS will comply with state and federal statutes regarding employment and insurance protection will be provided for the school and students.

Career Internship students will:

- Be responsible for securing employment prior to entering elective course
- Have work-based experience held at school approved worksite
- Obtain working papers prior to beginning of internship experience
- Complete monthly time logs, journals and assignments
- Be legally employed a minimum of 15 hours a week during the school year
- Provide their own transportation to the worksite
- Meet with his/her coordinator 45 minutes per week

### **Concurrent Enrollment off the PHS campus**

Some students may elect to take college courses at their own expense, provided all graduation requirements have been met. Students who are interested in pursuing this should speak with their counselor. Courses taken can be included on the transcript but do not count towards GPA and class rank. It is the student's responsibility to research the college courses they are interested in enrolling to determine if the courses can be transferred to other institutions. Students must follow the college's guidelines and deadlines for these courses.

### **Dual Enrollment offered through the PHS partnership's w/BCCC**

College courses are offered at Palisades High School through Bucks County Community College. These classes are taught at PHS by BCCC's faculty during the regular school day. Students may begin taking these courses in their junior year and must have a cumulative GPA of a 3.0 or better. College course work is awarded with a college transcript and high school elective credit toward the student's graduation requirement (a "C" or better must be earned to receive high school credit for the class). The following courses are offered each semester depending upon students' interests and enrollment. Here is the link for further information: <https://www.bucks.edu/catalog/courses/social/philosophy/>

- Introduction to Psychology
- Introduction to Sociology
- Critical Thinking

Parents are responsible for all tuition and costs associated with these courses, unless specified otherwise. Parents and students are encouraged to speak with their counselor for details.

### **Scholar's Program**

Each semester the top students in the senior class may apply to take college courses at Lehigh University, Lafayette College, Moravian College, or DeSales University. Interested students must complete an application and submit it to the counseling office by the specified deadlines. The participating universities and colleges make decisions independent of Palisades High School. Typically, tuition costs are waived by the sponsoring college. Parents and students are encouraged to speak with their counselor for details.