

# CHOOSE YOUR FUTURE



UPPER DAUPHIN AREA  
HIGH SCHOOL

PROGRAM OF STUDIES

2019-2020



Courtesy of TNN

UPPER DAUPHIN AREA HIGH SCHOOL

2019 – 2020

PROGRAM OF STUDIES

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## HIGH SCHOOL FACULTY AND STAFF

Todd Ayers	Science
Blake Bowman	Social Studies
Joann Brim	Health / Wellness
Bryan Buddock	Industrial Arts
Katie Burian	Family & Consumer Science / Mathematics
Shelli Casner*	Business / Computer
Elaine Cramer	Humanities / Instrumental Music / Vocal Music
Janet Denlinger	Library
Mark Dietrich	Agri-Science
Eric Fite*	English
Michelle Fulkroad	CBVI Job Coach
Russ Gavalis	Mathematics
Amy Gehring	Cooperative Education / Special Education
Clint Gehring	Special Education
Bridget Glunz-Wenner	Life Skills Support Teacher
Orie Hanley	Building Trades
Heather Haupt	Student Services Director
Jesse Heath	Mathematics / Science
Amy Heinbach	School Counselor
Craig Henninger*	Social Studies
Jan Hoffner*	Mathematics
Brian Hoover	Health / Wellness
Shelly Johns	Personal Care Assistant (PCA)
Lora Kerwin	English
Ruthie Kerwin	Inclusion Support Aide
Dana Lomma	Spanish
Roy Maurer	Agri-Science
Becci Mauser	High School Secretary
Robert Miller	Art / Humanities
Cynthia Minnich	English
Lora Nestor	School Counselor
Jackie O'Neill	Inclusion Support Aide
Chris Paul	High School Secretary
Jane Pianovich	Nurse
Emily Renn	Mathematics
Brooke Runkle*	Special Education
Todd Rupp	Business / Computer / Yearbook (Co-Teacher)
Marcia Schell	Athletic Department Secretary / Guidance Department Secretary
Amber Seiler	CAOLA Language Supervisor (French, German) / English / Yearbook (Co -Teacher)
Jared Shade	High School Principal
Elijah Shutt	Social Studies
Todd Smeltz	Mathematics / Science
Raquel Smith	Inclusion Support Aide
Vicky Smith*	Science
Rose Snyder	Life Skills Support Aide
Roseane Straub	Personal Care Assistant (PCA)
Diane Wolfgang	Inclusion Support Aide

\*designates Department Head

## NONDISCRIMINATION POLICY

The Upper Dauphin Area School District is an equal opportunity education institution and will not discriminate in its educational programs, activities, or employment practices on the basis of race, color, national origin, sex, age, religion, ancestry, disability, union membership or other legally protected classification. Announcement of this policy is in accordance with state and federal laws, including Title VI, Title IX, Section 504 and the Americans with Disabilities Act.

For information regarding 1) civil rights, 2) grievance procedures, 3) service, activities and facilities that are accessible to and useable by disabled persons, or 4) employee or participant complaints of harassment or discrimination, contact Mr. Evan Williams, The Section 504 Compliance Office, 5668 State Route 209, Lykens, PA 17048. For Title IX (Sex Equity) issues please contact Mrs. Mary Bateman (717-362-6547) (Title IX Coordinator) for information at the same address.

Federal Drug-Free Workplace Act requires that our workplace be totally free of illegal use of drugs and requires that we issue the following statement: No one is allowed to use, make, sell, distribute or have in his/her possession and illegal drugs. Any violation of the Act will lead to severe disciplinary action, which will normally include dismissal.

## SCHOOL COUNSELING SERVICES

The high school counseling department implements a team approach to integrating counseling within the school curriculum. The counselors collaborate with administrators, faculty and parents to ensure positive social and academic development for all students. The role of the counselor is to guide, advise, recommend, consult, and assist with the nearly limitless variety of concerns that students, parents, school staff, and the community may have. Specifically, the thrust of the counseling program at Upper Dauphin Area High School is defined by three major goals:

1. Students will exhibit personal and academic growth. Students will learn how to cope with stress, how to study, and how classroom behavior affects academic achievement. Counselors will work with parents and school staff to ensure that students are reaching their personal and academic potential.
2. Students will develop effective educational and career decision-making skills. The counseling department utilizes a variety of programs to promote career development such as interest inventory testing, PSAT testing, career inventories, college and vocational mini-fair, alumni-breakfast with panel discussions, individual counseling and assessment, as well as career –focused classroom guidance sessions. Students are encouraged to visit the career library to learn more about college and vocational programs.
3. Students will develop interpersonal skills such as learning how to resolve conflicts. Counselors help students develop communication skills to empower them to make their own healthy decisions. Individual counseling sessions are supplemented by group and classroom guidance counseling sessions.

## SCHEDULING PROCEDURES

The following is an outline of suggested scheduling procedures which will aid the student in selecting the most appropriate course of study. Parents and/or guardians are urged to be involved and to assist their child(ren) in the important task of program and course selection.

1. Review graduation requirements to ensure that all required courses are selected (minimum of 25 credits).
2. Review the recommended sequence of courses for each of the programs as listed on the following pages.
3. Carefully read the course descriptions as listed in the Program of Studies, located on the high school website, including any required pre-requisites.
4. Discuss any concerns about your educational program with your school counselor.
5. Upon receiving your course selection sheet, carefully read all instructions, paying particular attention to specific course selection approval procedures.
6. Discuss course selections with your teachers and parents/guardians and obtain the necessary signatures.
7. Be sure to complete course selection sheets as per the instructions and return by the established deadline.

Please Note:

Sometimes a student's requested course cannot be honored, nor are they appropriate for a variety of reasons. **Past performance on state tests, benchmarking assessments, teacher recommendations and grades will be considered to make scheduling decisions.**

To guarantee that graduating seniors have the required courses, seniors will be scheduled for electives before underclassmen.

Critical decisions affecting course offerings, class size, teacher assignments, high school staffing and budget expenditures are made on the basis of student selections during the scheduling process.

Parents/Guardians are advised that many factors are involved in the scheduling process. When scheduling courses, all students need to make careful and informed decisions. Making changes in the Fall will only include those deemed necessary by the administration. Remember, selecting courses is very serious and can be complicated; therefore, it is important for each student to follow the scheduling procedures identified above. No classes will be dropped after 5 school days at the start of the new school year.

STUDENT RECORD SHEET OF SUBJECTS, GRADES & CREDITS

Use this paper to plan your program of study for each grade. Fill in the name of your elective subjects, the number of credits earned, and the final grades achieved.

KEEP THIS PAPER FOR FUTURE REFERENCE AND PLANNING

Grade 9

<u>Course</u>	<u>Grade</u>	<u>Credit</u>
English I	_____	1
Math	_____	1
Science – Biology	_____	1.5
Modern World History	_____	1
Wellness	_____	1
Electives	_____	<u>2.5</u>
Maximum Credits	_____ =	<b>8</b>

Grade 10

<u>Course</u>	<u>Grade</u>	<u>Credit</u>
English II	_____	1
Math	_____	1
Science	_____	1
American History I	_____	1
Wellness	_____	1
Electives	_____	<u>3.0</u>
Maximum Credits	_____ =	<b>8</b>

Grade 11

<u>Course</u>	<u>Grade</u>	<u>Credit</u>
English III	_____	1
Math	_____	1
Science	_____	1
American History II	_____	1
Wellness	_____	.5
Electives	_____	<u>3.5</u>
Maximum Credits	_____ =	<b>8</b>

Grade 12

<u>Course</u>	<u>Grade</u>	<u>Credit</u>
English IV	_____	1
Math (Elective)	_____	1
Social Studies (Elective)	_____	1
Electives	_____	<u>5.0</u>
Maximum Credits	_____ =	<b>8</b>

## GRADUATION REQUIREMENTS AND GRADE PLACEMENT

In order to be eligible for graduation from Upper Dauphin Area High School a student must have successfully passed twenty-five (25) credits in grades nine through twelve which must include the following:

SUBJECT AREA	NUMBER OF REQUIRED CREDITS
English	4 credits
Mathematics	4 credits
Science	3 credits
Social Studies	4 credits
Health & Physical Education	2.5 credits
Electives	7.5 credits
TOTAL of	25 CREDITS

**\*\*Class of 2020 & 2021 require 24 credits for graduation\*\***

The placement of a student in a particular grade is based upon the following minimum credit requirements:

PROMOTION:	CRITERIA
To Grade 9	Promotion from grade 8
To Grade 10	Passing 5 graduation credits
To Grade 11	Passing 11 graduation credits
To Grade 12	Passing 17 graduation Credits

## SUMMER CREDIT RECOVERY

**Credit Recovery is available to any student who fails a major subject with a final grade of 50% or higher. A maximum of 2 credits can be taken during summer school to make up courses that were failed during the school year with special permission from the principal.**

## HONOR ROLL DETERMINATION

The school year is divided into four report periods or quarters, each of which is nine weeks in length. Each quarter, the Upper Dauphin Area High School issues an honor roll of students who have met the established requirements. The purpose of the honor roll is to recognize student efforts and encourage better grades. A grade of 'D' or 'F' during any quarter eliminates the possibility of honor roll status for that grading period. Incomplete work in any subject will keep a student off the honor roll. The honor roll requirements are as follows:

Distinguished Honor Roll: All 'A's

Honor Roll: All 'A's and 'B's

## GRADUATION WITH HONORS

Overall graduation with honors is attained when a student earns a cumulative (weighted) GPA of at least 3.50 or higher. In addition, National Honor Society members are recognized at graduation by maintaining a cumulative (weighted) GPA of at least 3.50 or higher.



## CREDITS

Credit value for courses is assigned purely on the basis of student-teacher contact time and has no relationship to their absolute or relative difficulty.

Course credit value is assigned as follows:

1 Credit Courses: Course has 180 student-teacher contact periods scheduled.

½ Credit Courses: Course has at least 90 student-teacher contact periods scheduled.

¼ Credit Courses: Course has at least 45 student-teacher contact periods scheduled.

## KEYSTONE EXAMS

The Keystone Exams are end-of-course assessments designed to measure proficiency in the subject areas of Algebra I, Literature, and Biology. Students are required to take each of the Keystone exams. There are four established performance levels which include Advanced, Proficient, Basic, and Below Basic. The scores determine the school's rating on the School Performance Profile website. Assessment scores represent a snapshot in time of student performance, and should not be considered the sole indicator of student achievement. Standardized assessments help Pennsylvania meet federal and state requirements, as well as provide educators, stakeholders, and policymakers with important information about the Commonwealth's students and schools, and inform instructional practices. The Upper Dauphin Area School District reserves the right to modify student schedules based on past performance on these types of assessments, and others measures, in order to provide supplemental instruction and support growth and achievement.

## GRADUATION PROJECTS

In addition to credit requirements, all students must submit an approved, acceptable graduation project.

At UDA these projects are career-related and include research, a presentation, resume writing, an interview, activities in Smart Futures. By the end of the junior year students must have 13 career artifacts saved in their online career portfolios in Smart Futures. These activities are completed during Discovery classes.

## ONLINE LEARNING COURSES

Upper Dauphin Area School District is committed to providing varied opportunities for students to excel through the use of online learning courses. UDA High School can offer a variety of courses through contract service provider. These courses can be offered during the normal school day or during the summer to allow students an opportunity to take classes that may not be offered in the traditional classroom. They will also allow for fewer scheduling conflicts. Students will be required to have a strong academic background and principal approval.

## CLASS RANK

Class rank is calculated using total quality points, which is determined by multiplying GPA by credits earned.

## GRADE POINT AVERAGE

A student's Grade Point Average is determined by a student's cumulative average of all courses taken in grades 9 through 12.

The mechanics of calculating grade point average involve multiplying each course's numerical points (see below) by its credit value (1 credit,  $\frac{1}{2}$  credit, or  $\frac{1}{4}$  credit) and dividing the sum of all the quality points by the sum of all credits attempted.

In order to challenge our students, a select number of AP, Honors, and Dual Enrollment courses will be designated for an alternative system of grade point average calculations. Specifically, courses designated "AP", "Honors" or "Dual Enrollment" will use the following grade equivalents when determining a student's grade point average.

\*Please Note: A grade lower than a 'B-' (85%) will not be weighted.

Letter Grade	Percentage	Regular Course	Dual Enrollment/ Honors Course	AP Course
A+	99 – 100	4.00	4.25	4.50
A	95 – 98	4.00	4.25	4.50
A-	93 – 94	3.67	3.92	4.17
B+	91 – 92	3.33	3.58	3.83
B	87 – 90	3.00	3.25	3.50
B-	85 – 86	2.67	2.92	3.17
C+	83 – 84	2.33	2.33	2.33
C	77 – 82	2.00	2.00	2.00
C-	75 – 76	1.67	1.67	1.67
D+	73 – 74	1.33	1.33	1.33
D	67 – 72	1.00	1.00	1.00
D-	65 – 66	0.67	0.67	0.67
F	0 – 64	0.00	0.00	0.00
*I – used when a student has not completed work	0.00	0.00	0.00	0.00

\*Incomplete grades must be finalized no later than the middle of the following marking period.

## GRADE POINT AVERAGE (continued)

BELOW ARE EXAMPLES DESIGNED TO ILLUSTRATE THE EFFECT ON GPA

(EXAMPLE #1 – No Honors Courses)

Subject	Grade		Credit value		Quality Points
Academic English IV	A+ = 4.00	X	1.0	=	4.00
Statistics	A = 4.00	X	1.0	=	4.00
CP Physics/Lab	B = 3.00	X	1.5	=	4.50
Freedom	B+ = 3.33	X	.5	=	1.67
Intro to Economics	A = 4.00	X	.5	=	2.00
Art	A- = 3.67	X	.5	=	1.84
Spanish II	B = 3.00	X	1.0	=	3.00
Greenhouse	A = 4.00	X	.5	=	2.00
Video Production	B = 3.00	X	.5	=	1.50
Music Technology	A = 4.00	X	.5	=	2.00
TOTALS:			7.5		26.51

Grade Point Calculation = 26.51 Quality Points divided by 7.5 credits attempted = 3.53 GPA

(EXAMPLE #2 – taking a Dual Enrollment Course)

Subject	Grade		Credit value		Quality Points
Academic English IV	A+ = 4.00	X	1.0	=	4.00
Statistics	A = 4.00	X	1.0	=	4.00
CP Physics/Lab	B = 3.00	X	1.5	=	4.50
Freedom	B+ = 3.33	X	.5	=	1.67
Intro to Economics	A = 4.00	X	.5	=	2.00
Art	A- = 3.67	X	.5	=	1.84
Spanish II	B = 3.00	X	1.0	=	3.00
PC Intro to Web Page	A = 4.25	X	.5	=	2.13
Video Production	B = 3.00	X	.5	=	1.50
Music Technology	A = 4.00	X	.5	=	2.00
TOTALS:			7.5		26.64

Grade Point Calculation = 26.64 Quality Points divided by 7.5 credits attempted = 3.55 GPA

## GRADE POINT AVERAGE (continued)

### (EXAMPLE #3 – taking an Honors Course)

Subject	Grade		Credit value		Quality Points
Academic English IV	A+ = 4.00	X	1.0	=	4.00
Honors Calculus I	A = 4.25	X	1.0	=	4.25
CP Physics/Lab	B = 3.00	X	1.5	=	4.50
Freedom	B+ = 3.33	X	.5	=	1.67
Intro to Economics	A = 4.00	X	.5	=	2.00
Art	A- = 3.67	X	.5	=	1.84
Spanish II	B = 3.00	X	1.0	=	3.00
Greenhouse	A = 4.00	X	.5	=	2.00
Video Production	B = 3.00	X	.5	=	1.50
Music Technology	A = 4.00	X	.5	=	2.00
TOTALS:			7.5		26.76

Grade Point Calculation = 26.76 Quality Points divided by 7.5 credits attempted = 3.568 GPA

### (EXAMPLE #4 – taking an AP Course)

Subject	Grade		Credit value		Quality Points
Academic English IV	A+ = 4.00	X	1.0	=	4.00
Honors AP Calculus II	A = 4.50	X	1.0	=	4.50
CP Physics/Lab	B = 3.00	X	1.5	=	4.50
Freedom	B+ = 3.33	X	.5	=	1.67
Intro to Economics	A = 4.00	X	.5	=	2.00
Art	A- = 3.67	X	.5	=	1.84
Spanish II	B = 3.00	X	1.0	=	3.00
Greenhouse	A = 4.00	X	.5	=	2.00
Video Production	B = 3.00	X	.5	=	1.50
Music Technology	A = 4.00	X	.5	=	2.00
TOTALS:			7.5		27.01

Grade Point Calculation = 27.01 Quality Points divided by 7.5 credits attempted = 3.601 GPA

## DUAL ENROLLMENT COLLEGE COURSES

“Dual Enrollment” is a program that allows high school students to enroll in college-level courses offered by a college and simultaneously earn credit toward high school graduation. These courses must be college level courses of 100 or higher. College level remedial or developmental courses do not qualify. Students must meet the criteria set by the colleges to qualify for their courses. This often includes placement testing, SAT scores and current grades.

Students may choose to take these courses at the college campus or online. Students may be permitted to work independently online at school or in the evening during their own time. Students must earn a grade of ‘A’ or ‘B’ to receive weighted dual enrollment GPA calculations.

To receive high school credit for a college course students must receive approval from the school counselor prior to enrolling in a college course. Enrollment in fall online courses must be completed with the school counselor by June and spring enrollments must be completed with the school counselor by December. No student is permitted to receive more than 8 credits in a school year. Students who want to receive dual enrollment may not substitute high school credits for dual enrollment credits. If a student chooses to take 8 credits at Upper Dauphin they may still take college courses but they will not receive credit at Upper Dauphin. If a student takes 7.5 credits at Upper Dauphin they may substitute a 0 credit study hall for the .50 dual enrollment course. A 3 credit college course is equal to a .50 Upper Dauphin credit. The student must supply Upper Dauphin with an official final transcript from the college by May 15<sup>th</sup> each year in order to receive high school credit.

Students who choose to take courses on a college campus on a part time basis must attend high school each day through period 4 and be enrolled in at least 2 college courses each semester. If a student wishes to attend college full time as a senior they must be enrolled in at least 12 credits each semester to be exempt from attending the high school. All seniors must complete the graduation project culminating in a Career Day presentation. Rare exceptions can be made with principal approval.

**STUDENTS ARE RESPONSIBLE FOR ALL TUITION COSTS, BOOKS, TRANSPORTATION AND FEES THAT ARE CHARGED BY THE COLLEGE OR UNIVERSITY.** HACC offers students in the high school the opportunity to take online or on campus classes at the cost of \$375 per 3 credit course.

The transfer of college credits earned through the dual enrollment program is at the discretion of the receiving college or university. When students make a final decision on the college they will attend, the student must request a transcript from the college/university through which a dual enrollment class was taken for review of transfer credit.

**COLLEGE IN THE HIGH SCHOOL**  
**PENN COLLEGE NOW - DUAL ENROLLMENT PROGRAM**  
**10<sup>th</sup>- 12<sup>th</sup> Grade Students**

UDA high school has developed a partnership with the Pennsylvania College of Technology to offer qualified students the chance to earn Penn College credits while in high school. These courses are taught by approved UDA teachers. The courses are tuition free but students must pay for the required textbooks.

Penn College Now courses will be weighted as dual enrollment according to the chart on page 10 unless otherwise noted below. It is very possible that the Penn College grade may be different from the Upper Dauphin grade for the same class. This is because Upper Dauphin teachers may require more assignments and tests than Penn College but those assignments and tests may not factor into the Penn College official grade. Only assignments and tests created by Penn College can be factored into the PC grade.

Students interested in taking these courses must pass the Nelson Denny Reading exam with a reading level score of 10.7 or submit to Penn College SAT Reading scores of 27 or higher. SAT scores must be sent directly to Pennsylvania College of Technology from College Board. Some courses have additional Math, Writing or UDA prerequisites as listed under the course title.

The transfer of college credits earned through the dual enrollment program is at the discretion of the receiving college or university. When students make a final decision on the college they will attend, the student must request a transcript from the college/university through which a dual enrollment class was taken for review of transfer credit.

Below is the list of courses offered at UDA high school in the 2019-2020 school year.

**These Penn College courses are approved for students in grades 10-12 who pass the Reading placement test:**

Honors New – (PC6124) Computer Technology CSC 124 – Mrs. Casner (3 college credits, 1 high school credit)  
(PC6105) Introduction to Business MGT 105 (3 college credits, .5 high school credit) - Mrs. Casner  
(PC9118) Sanitation FHD 118 (1 college credit, 5 high school credit) - Mrs. Burian  
(PC2100) Fundamentals of Chemistry CHM 100 (4 college credits, 1 ½ high school credits) – Mr. Smeltz  
*Additional Prerequisites: Math Placement Exam – Math 005 Algebra or SAT Math score 580, and successful completion of Algebra I. You must have completed or be taking Algebra II the same year as this class.*

(\*\*Please note: This course, CHM 100 is under review with PC & is not guaranteed to be offered. \*\*)

**These Penn College courses are approved for students in grades 11-12 who pass the Reading placement test:**

(PC6150) Honors Introduction to Web Page Development BWM 150 (3 college credits, 1 high school credit) - Mr. Rupp --  
*Additional Prerequisites: Math Placement Exam – Math 004 Elementary Algebra or SAT Math score 580*  
(PC2200) Introduction to Health Careers HTH 100 (2 college credits, .5 high school credit) - Mr. Ayers  
*Additional Prerequisites: 'B' or better in Anatomy and Biology*  
(PC2104) Basic Medical Terminology MTR104 -(3 college credits, .5 high school credit) - Mr. Ayers  
*Additional Prerequisites: 'B' or better in Anatomy and Biology*

**This course is only approved for students in 12<sup>th</sup> grade:**

(PC0111) Honors English 111 (3 college credits or 1 high school credit) - Mrs. Minnich  
*Additional Prerequisite(s): Reading & Writing Placement exam OR SAT Reading Test Score of 27 and SAT Writing Score of 28.*

## **COLLEGE IN THE HIGH SCHOOL DUAL ENROLLMENT WITH – HACC**

**This course is approved for students in grades 11-12 who pass the HACC placement test:**

**\*\*Please note:** Students are fully responsible for the tuition of \$225 and the cost of textbooks.

**(6438) HACC CIS 105 –** (3 college credits, .5 high school credit) - Mrs. Casner (Tuition \$225)

## **COLLEGE IN THE HIGH SCHOOL DUAL ENROLLMENT WITH HARRISBURG UNIVERSITY**

**These courses are approved for students in grades 11-12 who meet the prerequisites**

Students are fully responsible for the tuition of \$300 and the cost of textbooks.

**(HU1120) Harrisburg University Math 120 College Algebra** (3 college credits, 1 high school credit) –  
(Tuition=\$300)

Prerequisites: Completion of Precalculus or higher with a C or better with teacher signature

**(HU1220) Harrisburg University Math 220 AP Calculus II** (3 college credits, 1 high school credit) – (Tuition=\$300)

Prerequisite: Seniors with a final grade of 'C' or better in Calculus I OR juniors having received an A in both Honors Algebra 2 and Honors Precalculus. Both require teacher signature.

## HONORS AND ADVANCED PLACEMENT COURSES

The following courses will be scheduled for the school year - if enrollment permits:

English: Honors English I  
Honors English II  
Honors English III  
AP English – Grade 12 [AP Test strongly encouraged] OR Honors English 12 Penn College

These courses cover the same broad curriculum areas as their academic-level counterparts. The difference in instructional approach and expectations will require greater in-depth analysis and discussion; increased essay writing; greatly increased reading.

Mathematics: Honors Algebra II – Grades 9 – 10  
Honors Geometry – Grades 9 – 10  
Honors Precalculus – Grades 10 – 12  
Honors Calculus I – Grades 11 – 12  
AP Calculus II – Grade 12 [AP Test strongly encouraged]

This four-year progression of mathematics courses is an accelerated program of studies. The Calculus II course is a preparation for the Advanced Placement Examination.

Music: Honors Advanced Music Theory – Grades 11 – 12

Social Studies: Honors Modern World History – Grade 9  
Honors American History I – Grade 10  
AP United States History – Grade 11 [AP Test strongly encouraged]  
Honors Humanities 100 – Grades 11 & 12  
Honors HUM 101 Modern Culture and the Arts – Grade 12  
(Honors Humanities 100 and 101 are offered on a sequential basis)

Science: Honors Biology with Lab – Grade 9  
AP Biology with Lab – Grade 12 [AP Test strongly encouraged]  
Honors Electricity & Magnetism – Grades 11 – 12  
Honors Waves, Sound & Optics – Grades 11 – 12  
Honors Advanced Chemistry – Grades 11 – 12

World Languages:  
Honors French IV – Grade 12  
Honors Spanish IV – Grade 12  
Fourth-year study of world languages will remain honors courses.

Information Technology:

Penn College BWM150: Introduction to Web Page Development – Grades 11 – 12  
Penn College CSC124: Information, Technology, and Society – Grades 10 – 12  
Penn College MGT105: Introduction to Business – Grades 10 – 12

**ALL HONORS AND ADVANCED PLACEMENT COURSES ARE OFFERED SUBJECT TO  
TEACHER RECOMMENDATION AND WILL BE OFFERED AS ENROLLMENT PERMITS.**



## ART DEPARTMENT COURSE OFFERINGS

### (7830) Studio (A/B)

Grades 9 – 12                      ½ credit A or B days – full year

### (7831) Studio Art (Semester)

Grades 9 – 12                      ½ credit – 1 semester

### (7832) Studio Art (Full Year)

Grades 9 – 12                      1 credit – full year

Recommended Prerequisite: Strong desire and commitment to exploring the basics of art.

The first year in the Studio Art course is divided into two general units, Basic Drawing and Color Theory, designed to afford the student a basic background foundation for more advanced art courses available in the following years. Students beginning the second semester will need to take the first semester the following year before entering advanced portion of Studio Art.

After the initial Basic level, interested students may move on to the more advanced offerings available to them on an independent basis as scheduled by the instructor. Each of the following courses lasts for one marking period, except oil painting which lasts for one semester.

Advanced Studio Art is a workshop comprising numerous areas of study in a suggested sequence. Students are encouraged to take several years of advanced art.

- A. Life Drawing: This is a two-part advanced drawing course focusing upon the student's ability to draw from life, i.e. portraiture and anatomy. Media to be employed will be pencil, chalk, charcoal, and/or pastels.
- B. Nature Drawing: This advanced drawing course develops the student's ability to draw from nature. Composition will be studied in great detail. A variety of media employed consists of pencil, pen and ink, and brush. A sketchbook may be a required part of this course.
- C. Introduction to Watercolor: This introductory course is designed to present the basic techniques of transparent watercolor to the student, along with background knowledge of materials and paper. A still life will be used as subject matter.
- D. Advanced Watercolor: This advanced studio course stresses the development of an individual style of painting with emphasis on the Brandywine technique. Subject matter is traditional and based upon an original study of nature. Interested students may also do floral studies.
- E. Ceramics: This is a studio course designed to explore the more advanced forms of clay work. Areas of concentration will be both hand-built and wheel-thrown pottery (for the advanced). Emphasis will be placed on learning to use different and new types of tools and processes including glazing and kiln firing. The class may be repeated to work on throwing pottery on the wheel.
- F. Graphics: This advanced course will afford the student an opportunity to explore various printing media such as linoleum block and serigraphy when possible.

## ART DEPARTMENT COURSE OFFERINGS

- G. Calligraphy: This advanced course teaches the student the basic methods of calligraphy and fraktur plus basic layout and design.
- H. Brush Drawing: This course introduces the student to brush drawing using ink or sepia washes. Along with traditional Western techniques, the student may choose to become acquainted with the calligraphic techniques employed by the Oriental cultures, known as Sumi painting.
- I. Art Theory: This two-part theory course is designed to stimulate the more-than-average student and is strongly recommended for any student wishing to follow a post-graduate study of art. The first course is concerned with problems involved with one point perspective, while the second course concerns two-point perspective and its use in both interior and exterior design.
- J. Oil Painting: This studio course develops techniques inherent in oil painting; stylistic differences are studied along with the Flemish and Italian methods. At least one original oil painting is required in a style chosen by the student.
- K. Advanced Drawing: This advanced studio further investigates drawing techniques through a variety of media such as charcoal, chalk, crayon, colored pencil, regular and colored ink, pastels, and/or silver point, when available.
- L. Senior Portfolio: This advanced studio course is specifically geared toward preparing those seniors planning on furthering their art studies at an art school or program at a University. Based upon the expectations of both college art departments and various art schools, it is highly individualized and specific to the needs of the student who will work closely with the instructor on selected areas of weakness. This portfolio course is offered for a full year, with the end product being a finished portfolio ready for presentation and acceptance. It is open only to seniors.

Interested Advance Studio students must follow the following sequence:

Year 1 Nature or Life / Art Theory / Brush or Basic Watercolor / Ceramics

Year 2 Nature or Life / Graphics or Calligraphy / Ceramics / Brush or Watercolor

Year 3 Any course for Independent Study / Oil (1 Semester) / Portfolio (1 full year)

## BUSINESS DEPARTMENT COURSE OFFERINGS

### **(4511) Accounting I**

Grades 10 – 12

1 credit – full year

Accounting is the language of business. Accounting provides instruction in modern record keeping, business terminology, preparation of financial reports, and the application of the complete accounting cycle. Hundreds of career fields require knowledge of Accounting. Modern technology is geared to computer spreadsheet applications on the computer and these are included. It is a prerequisite to all Accounting classes. This course broadens the basic knowledge of single proprietorship/service business accounting. Partnership and corporate accounting are included. Objectives include an understanding and application of accounting concepts and a broader comprehension of theory through the completion of at least two business simulations. This course should be a prerequisite for those pursuing accounting careers or college business administration or any other career field that will require knowledge of accounting and modern business practices.

### **(4513) Accounting II**

Grades 11 – 12

1 credit – full year

Prerequisite: A 'B' or better in Accounting I with teacher approval

This course further broadens the basic knowledge of all business organizational forms with emphasis on the computer as a business tool. A number of simulations will be completed, as well as, additional concepts covered at the college level to include inventories, depreciation of assets, plant and equipment, and payrolls. Extensive use of spreadsheet accounting is used. It is intended as independent study with teacher supervision and advanced placement credit.

### **(4550) Principles of Marketing**

Grades 10 – 12

½ credit – 1 semester

Students explore the roles of business and marketing in the free enterprise system and global economy. You will study how the American economy operates and prepare to make decisions as consumers, wage earners, and citizens.

### **(4570) Sports Entertainment and Marketing**

Grades 10 – 12

½ credit – 1 semester

Students will explore the intriguing world of sports and entertainment from the perspective of marketing. This is an introductory course which will help students develop a thorough understanding of the marketing concepts and theories that apply to sports and sporting events. This course will focus on the Core Marketing Standards of Distribution, Pricing, Product Service Management, Promotion, Selling and Financing. Students will be presented with real world strategies used by successful sports and entertainment marketers. Students will investigate how technology and the internet help marketers work more effectively. The course will explore some common myths that surround advertising and promotion as well as introduce interesting facts and statistics for sports and entertainment businesses. Sports and Entertainment Marketing is a unique and innovative course designed for students with an interest in the sports and entertainment industry.

## BUSINESS DEPARTMENT COURSE OFFERINGS

### **(4580) Essential Skills in the Business World**

Grades 10 – 12

½ credit – 1 semester

This course is a hands on course focused on preparing students for the business world and for college. Students will be taught essential life skill lessons throughout the semester. Students will understand how speech, budgeting and financial management is an essential part of any career choice and is critical for life success. Students will also learn the importance of online safety and how to make a positive digital footprint. Students will create presentations with various presentation tools; engage in a variety of public speeches, interviews, and e-portfolios. Students will use a variety of digital tools to help build organizational skills leading to poise and confidence needed in the business world.

### **(PC6105) Penn College MGT105: Introduction to Business (Honors)**

Grades 10 – 12

½ credit – 1 semester

3 college credits

Prerequisites: Students must purchase their own textbook and pass the reading placement test to enroll in the course or submit SAT Reading Subscore of 27 to Penn College.

Introduction to a variety of business concepts and practices that impact all organizations, as well as the knowledge and skills needed to be successful in an organization. Topics include interpersonal communications, emotional intelligence, economics, accounting, and finance and investments. An integrative approach connects topics and provides context within organizational environments, relevance to current business situations, and advances across various fields of business. 3 Credits (3 Lecture - 0 Lab) Sophomore-Approved Course

## CAIU DRIVER EDUCATION AND TRAINING PROGRAM

The Upper Dauphin High School through the CAIU offers high school students driver education and training programs. A certificate of completion is issued and sent to the student at the completion of each component. These are voluntary classes and have no credit or grade value through Upper Dauphin.

30 hours on-line Classroom Theory - \$118.00

Log on to: [www.caiu.keystodriving.com](http://www.caiu.keystodriving.com)

Capital Area Intermediate Unit

55 Miller Street

Enola, PA 17025-1640

717-732-8400 ext. 8535

## ENGLISH DEPARTMENT COURSE OFFERINGS

The goal of the English department is to meet the individual needs of all students in the areas of listening, reading, and writing. The department aims to provide a balance in instruction between the mechanics of language and literature, emphasizing reading comprehension, and critical thinking.

### **(0209) Honors English I**

Grade 9

1 credit – full year

Prerequisites: Teacher Recommendation and submission of summer work due by first day of new school year.

Honors Ninth Grade English I is a language arts course designed to prepare the student for Honors courses. Since it will involve more work in the form of additional reading, writing assignments, and other enrichment activities, a student considering ninth grade honors should be genuinely enthusiastic and open-minded about reading and responding to various types of literature (poetry, plays, short stories, novels, and non-fiction pieces) by a variety of writers, including at least one Shakespearean play. Honors students will be expected to be willing participants in class discussion and demonstrate his/her understanding of literature through a variety of frequent writing assignments ranging from less formal journal entries to formal essays and research papers.

Honors Ninth Grade English I meets all of the objectives for Academic English I as listed below, but it requires additional and more challenging assignments to meet those objectives.

### **(0309) Academic English I**

Grade 9

1 credit – full year

Academic English I is a course designed to continue the instruction of grammar, usage, vocabulary, reading and writing skills. Since ninth grade English is designed as an introductory course to the various genres of writing, students will examine the forms of the short story, the novel, prose, poetry, and drama by studying examples of each, including one Shakespearean play. Writing (ranging from less formal journal entries to formal essays and research assignments) and class discussions will be incorporated into these units for students to improve their communication skills. Students will all complete a research paper assignment, focusing on how to do research and effectively use the writing process.

### **(0210) Honors English II**

Grade 10

1 credit – full year

Prerequisites: Teacher Recommendation, Grade of 90% or better in previous year, and students must also complete a summer reading project of two works from the provided list of authors. Any student who fails to meet these requirements will NOT be placed in the Honors English II class.

Honors English II is a language arts course designed to prepare the student for additional Honors courses. As such, this course is designed for students who enjoy reading and writing and for students who wish to be challenged in these areas. Honors English II meets the same objectives as Academic English II, but it requires additional and more challenging assignments to meet those objectives. Special requirements for this course include, but are not limited to, two summer reading choices and reviews, writing assignments, enrichment activities to supplement reading assignments, and class participation.

## ENGLISH DEPARTMENT COURSE OFFERINGS

### **(0310) Academic English II**

Grade 10

1 credit – full year

Tenth grade Academic English II is a course which continues a student's learning experiences in grammar, usage, vocabulary, literature and composition. Technical and thematic aspects of the short story, the novel, poetry, and drama are discussed. Continual writing assignments often integrate the development of communication skills with the study of literature. Films, class discussions, and individual projects may supplement classroom activities.

### **(0111) Honors English III**

Grade 11

1 credit – full year

Prerequisites: Teacher Recommendation and a Grade of 'B' or better in previous year and submission of summer work by first day of new school year.

Honors English III is a language arts course designed to reinforce students' knowledge of literary expressions and to introduce students to the critical foundations of literature. Appropriate American literature will be discussed following a time line of development. Films, class discussions and group assignments/presentations will augment classroom activities. Extensive reading, writing, speaking (formal and informal), and critical thinking are expectations for the Honors English III student. Honors English III students will complete a research paper based on the summer work completed as a prerequisite for the course.

### **(0311) Academic English III**

Grade 11

1 credit – full year

Academic English for juniors will explore the development of American Literature and of American English. Within this study students will apply specific reading strategies to explore early American writings, the American short story, and a variety of literary movements such as Romanticism, Transcendentalism, and Realism. The writing process will be emphasized and utilized to improve written and oral communication skills. Grammar, usage and vocabulary skills will also be further developed within the study of American Literature. Films, class discussions, and individual projects will augment classroom activities.

### **(0112) Business English**

Grade 12

1 credit – full year

Prerequisite: Completion of any 11th grade English course

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. This course provides students with the methodology needed to construct and to deliver oral presentations, create tables, graphs, and charts, and write a variety of reports and proposals. Students will study common business correspondence, including the correct form and use of business applications, information management, information technology, telecommunications, social media and web writing. Reading and writing of business documents will be emphasized throughout the course. Students will also review the techniques needed to complete the required graduation project. Students enrolled in Business English will develop and refine job-related communication skills in reading, writing, speaking, and listening, which are necessary to be successful in a business environment.

## ENGLISH DEPARTMENT COURSE OFFERINGS

### **(PC0111) Penn College English Honors**

Grade 12

1 credit – full year  
3 college credits

Prerequisites: Teacher recommendation, grade 'B' or better in previous school year, submission of assigned summer work on the first day of school, mandatory dual enrollment, student's must purchase their own textbook and pass the required placement exam. Penn College reading and writing placement test or SAT sub scores of 27 reading and 28 writing.

The first semester of the course will be dual enrollment English Composition course work. Writing and revising 7-10 papers in various academic genres in addition to brief response papers. British authors and their literary works will be the focus for the second semester of this twelfth grade English course. Background information on the authors and history of the English language will also be incorporated throughout this study. Our literary journey will begin with a brief look at some Anglo-Saxon pieces and will progress through the centuries to a study of "modern classics." As we read these time-honored pieces, we will also reflect on them through written assignments and classroom discussions. Both semesters will be fast-paced and require extensive reading, research and writing. Students will complete all facets of the graduation project as a part of this course.

### **(0312) Academic English IV**

Grade 12

1 credit – full year

Academic English IV will introduce the development of the English language while focusing on major British authors and their works. Literary devices will be reviewed throughout the literature study, as will the format of a variety of genres. A review of grammar and usage will occur as part of the writing process, and a continuation of vocabulary development will be within the context of the course's literature. As part of this course, students will also review techniques for creating their graduation project research products. Lastly, films, class discussions and individual projects will complement classroom activities.

### **(0412) AP English**

Grade 12

1 credit – full year

Prerequisite: Advanced on Literature Keystone Exam and teacher recommendation.

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

### **(0525) Keystone Literature Remediation**

Grade 11 ½ credit – 1 semester

*\*\*The ½ credit for this class DOES NOT count as an English credit.\*\**

This course is designed for students who DID NOT pass the Literature Keystone Exam. It is intended to reteach and reinforce concepts to prepare students to retake and demonstrate proficiency on the Literature Keystone Exam.



## ENGLISH DEPARTMENT COURSE OFFERINGS

### **(0530) Journalism**

Grades 9 – 12      ½ - 1 credit – semester or full year

Prerequisite: 'B' or better in English and Teacher Recommendation

Students in journalism will work on various publications from the high school. They will develop their photography, writing, sales, communication technology, design and publication skills for publications including the yearbook. Students who choose to take this course must be good time managers, self-motivated, committed to working constructively with a team, willing to talk with others and follow up on their assigned stories beyond the classroom, including outside of the school day. This course can be taken as a full year course or a semester course. This course is an English elective, not a replacement for other required English classes.

### **(0901) Mythology**

Grades 9 – 12      ½ credit – 1 Semester

This course is designed to enhance understanding of mythology and its continuing influence on our modern world. Students will study mythology from various cultures, including Greek, Roman, Norse, and American Indian. Participants examine how some themes and character types occur over and over in myths of different cultures. Reading, individual projects/activities, and group work will be part of this class.

### **(0905) Creative Writing**

Grades 9 – 12      ½ credits – 1 Semester

This course is designed to guide students in creative writing through experience in three genres: short story, poetry, and creative non-fiction. The course includes analysis of literary models (professional writings in each genre), individual and class feedback of work in a workshop mode, and lecture on and discussion of literary techniques in each genre.

<b><u>(0709) Transitional English 9</u></b>	Grade 9	1 credit
<b><u>(0710) Transitional English 10</u></b> (Keystone Literature)	Grade 10	1 credit
<b><u>(0711) Transitional English 11</u></b>	Grade 11	1 credit
<b><u>(0712) Transitional English 12</u></b>	Grade 12	1 credit

Prerequisite: Prior approval is required.

Provides academic instruction to students who require a small, structured learning environment. The program is designed for students who require an intensive, highly individualized instructional approach.

<b><u>(0805) Functional English 9</u></b>	Grade 9	1 credit
<b><u>(0806) Functional English 10</u></b>	Grade 10	1 credit
<b><u>(0807) Functional English 11</u></b>	Grade 11	1 credit
<b><u>(0808) Functional English 12</u></b>	Grade 12	1 credit

Prerequisite: Prior approval is required.

Provides functional academic skills with a modified curriculum that addresses strategies utilized for everyday English skills.

## FAMILY/CONSUMER SCIENCE DEPARTMENT COURSE OFFERINGS

### **(9210) Nutrition and You**

Grades 9 – 12

½ credit – 1 semester

Nutrition and You is an elective course that allows students to explore sources of nutrients and the body's requirements throughout the lifecycle. They will learn basic kitchen management skills, understanding safety and sanitation as well as recipes and how they can be altered for utilization to meet daily needs. The students will examine the government's role in the food supply and safeguarding our food selection. The USDA Choose My Plate will be utilized to gain knowledge of food and nutrition with extension activities that may include food labs.

### **(9220) Foods and You**

Grades 10 – 12

½ credit – 1 semester

Prerequisite: Nutrition and You

The focus of this course is to apply the knowledge gained in the Nutrition and You course to daily living through meal planning and making good consumer decisions. The students will examine how to enhance their food choices through the selection, planning, preparation and serving of meals.

### **(9240) L.I.F.E.**

Grades 10 – 12

½ credit – 1 semester

L.I.F.E., (Lifelong learning, Independence, Family and Economics) is an elective course that gives students the opportunity to learn to manage the challenges of living and working. The course helps to prepare students for independence by examining the main elements of Family and Consumer Science. The students will explore careers and gaining employment, as well as financial and resource management by investigating the necessities of life as consumers and family members. The students will discover effective solutions to issues significant in everyday life as they learn to balance family, work and community responsibilities throughout the lifecycle.

### **(9270) Child Development**

Grades 11 – 12

½ credit – 1 semester

Child Development is an elective course that allows students to gain an understanding of caring for children and aiding in their learning as their needs change physically, intellectually, socially and emotionally. The students will examine the responsibilities and changes involved in their lives when caring for themselves, as well as for a child. They will analyze the financial needs of families, health and safety concerns for themselves and children, as well as balancing daily responsibilities as individuals, family members and community members during this course.

### **(9416) Consumer Strategies**

Grade 9

½ credit – 1 semester

Consumer Strategies is a comprehensive Family and Consumer Science course with an examination of kitchen and nutrition basics, resource and financial management and balancing family, work and community responsibilities along with child care. The students will explore kitchen safety and sanitation, time management, finances with emphasis on maintaining accounts, consumerism, housing/interior design and child care.

## FAMILY/CONSUMER SCIENCE DEPARTMENT COURSE OFFERINGS

### **(PC9118) Penn College FHD118 Sanitation**

Grades 10 -12

½ credit – 1 Semester  
1 College Credit

Prerequisite – Nutrition and You

Principles for the prevention of foodborne illness in the hospitality industry will be discussed. Control measures are covered, with emphasis on maintaining a sanitary foodservice operation through knowledge of biological and physical hazard issues. Hazard Analysis Critical Control Point (HACCP) fundamentals and steps for implementation are also covered. National certification exam is conducted as a part of this course. This class is considered as a regular course and will not receive dual enrollment honors weighting.

\*Students will be responsible for the cost of the textbook and testing materials.

## INDUSTRIAL ARTS DEPARTMENT COURSE OFFERINGS

### **(8011) Basic Cabinetmaking I**

Grades 9 – 12

½ credit – 1 semester

Students learn machine safety, as well as, the basics of cabinet construction. Several smaller projects will be constructed using basic cabinetmaking techniques. Materials fee will be charged.

### **(8311) Basic Cabinetmaking II**

Grades 10 – 12

1 credit – full year

Prerequisite: Basic Cabinetmaking I

Students continue to learn more basic features of cabinets such as drawers and doors. Students will construct one or more pieces of furniture/cabinets that meet course requirements. Materials fee will be charged.

### **(8411) Advanced Cabinetmaking**

Grades 11 – 12

1 credit – full year

Prerequisites: Basic Cabinetmaking I & II

Students expand upon previously gained knowledge and experience to design and build large complex cabinets utilizing all the above-mentioned features of modern cabinets.

### **(9310) Basic Drafting I**

Grades 9 – 12

½ credit – 1 semester

Students learn the basics of drafting, starting with line types continuing through orthographic projection or multi-view drawings. Students will also be introduced to AutoCAD.

### **(9315) Basic Drafting II**

Grades 9 – 12

½ credit – 1 semester

Prerequisite: Basic Drafting I

Students continue to learn the basics of drafting starting with pictorial views and continuing through assembly drawings. Students will also create simple drawings with AutoCAD.

### **(9316) Basic AutoCAD**

Grades 10 – 12

½ credit – 1 semester

Prerequisites: Basic Drafting I & II

Students learn the basic AutoCAD commands to accomplish simple drawings, as well as, how to configure specific output devices.

### **(9317) Advanced AutoCAD**

Grades 10 – 12

½ credit – 1 semester

Prerequisites: Basic AutoCAD, Basic Drafting I & II

Students continue to learn the basic AutoCAD commands through the use of both simple and complex commands. Students draw complex drawings starting with 2 dimensional pictorial views and ending with 3-dimensional wire frame views.

### **(9318) Architectural Drafting**

Grades 11 – 12

1 credit – full year

Prerequisites: Drafting I & II, Basic & Advanced AutoCAD

Students learn the basics of light construction principles and then apply their knowledge to design a house using AutoCAD. After the 2 dimensional drawings have been completed, the students then render the drawings to create 3 dimensional views of the house. A scale model of the house is built to provide a concrete, 3-dimensional product of the student's design

## INFORMATION TECHNOLOGY DEPARTMENT COURSE OFFERINGS

### **(6433) Computer Applications I – Word Processing/Presentation Basics**

Grades 9 – 12

½ credit – 1 semester

Prerequisite: This is a **remediation course** for ONLY those students who did not successfully complete Computer Applications I (8<sup>th</sup> Grade).

This course introduces students to word processing and presentation concepts as part of an office software productivity suite. This is a self-paced, hands-on approach that utilizes creative computer projections, group instruction, and step-by-step instruction using numerous business and general interest topics.

### **(6434) Computer Applications II – Word Processing/Presentation/Spreadsheet**

Grades 9 – 12

½ credit – 1 semester

Prerequisite: Passed 8<sup>th</sup> Grade Computer Applications I with a 'C' or better

This course builds on the basic concepts introduced in word processing and presentation as part of an office software productivity suite and introduces spreadsheet functionality. This is a self-paced, hands-on approach that utilizes creative computer projections, group instruction, and step-by-step instruction using numerous business and general interest topics. A focus of this course is to master these applications both separately and in an integrated environment.

### **(6450) Emerging Technologies: Web 2.0**

Grades 10 – 12

½ credit – 1 semester

Web 2.0 is a category of new tools and technologies created around the idea that people who consume media, access the internet, and use the Web shouldn't passively absorb what is available; rather they should be active contributors, helping customize media and technology for their own purposes as well as those of their communities. Emerging technologies will foster digital learning by empowering students to create, share, and participate in a virtual community using the web as a platform. Web 2.0 applications will consist of, but not be limited to blogs, podcast, story-booking, virtual portfolios, wikis, RSS feeds, and media sharing.

### **(6445) Computer Applications – Graphic and Technology Design**

Grades 9 – 12

½ credit – 1 semester

Students will be introduced to computer applications that focus on the generation and adaptation of computer graphics and digital images. The integration of typography with imagery will be explored with emphasis being placed on creating visually appealing publications. This is a self-paced, hands-on approach that utilizes creative computer projections, group instruction, and step-by-step instruction.

### **(6455) Video Production**

Grades 9 – 12

½ credit – 1 semester

This course introduces students to the fundamentals of digital video production. Students will learn how to produce short videos, including story-boarding and shooting, and will finish productions using current video- and sound-editing software. This course builds on the basic concepts of the video production work flow. Students will develop an understanding of pre-production, production and post-production processes. This is a hands on, project based course that utilizes digital media concepts which will feature digital media hardware/software tools, techniques and digital media applications. This course is designed to familiarize you with the processes and tools associated with Video Production.

## INFORMATION AND TECHNOLOGY DEPARTMENT COURSE OFFERINGS

### **(6458) VPC Live: TROJAN NEWS**

Grades 10 – 12

½ credit – 1 semester

Prerequisite: Video Production with a 'B' or higher and teacher permission

Students will learn the ins and outs of television broadcasting. VPC Live is designed to give students the opportunity to broadcast live on a weekly basis for TROJAN NEWS using videography, the process of recording sound and visual images on electronic media. Fieldwork involving school activities will provide students with experiences working with digital photography enhancements and capturing video as well as interacting with others by interviewing participants. Students develop skills in video production using the technologies of audio-video equipment and computer-based editing software. This broadcasting class will be unlike any other elective. TROJAN NEWS is the first news program produced daily by students, to air live right in our classrooms. Our broadcast covers school announcements, organization updates and sport highlights. Students must be energetic, upbeat and possess the ability to work well with others. The ability to write and read well is a must and students should be comfortable speaking in front of a large audience. TROJAN NEWS staff members will learn to organize information and manage themselves and their time wisely.

### **(6478) Trojan Sports Network (TSN)**

Grades 9 – 12

½ credit - ½ year

### **(6479) Trojan Sports Network (TSN)**

Grades 9 – 12

1 credit – full year

This course introduces students to LIVE video sports broadcasting. Students will be responsible to oversee the Trojan Sports Network. Students will cover sporting and extra-curricular events through commentating, videotaping, production truck, and graphic designs. Students will be expected to attend events outside of the regular school day. Students will create, edit, and promote the TSN as well as create commercials and special stories. Student must be self-motivated and be able to manage their time wisely. Students will be expected to work independently and with teams. TSN is a great course for the sports fan and those that enjoy creating videos.

### **(9606) Student Help Desk**

Grades 10 – 12

½ credit – ½ year

### **(9605) Student Help Desk**

Grades 10 – 12

1 credit – full year

The Student Help Desk is a student technology innovation and integration course. The course is a hands on study of technology integration in an educational context. Students are required to assess problem sets throughout the day and define the best approach to addressing or solving the problem. In addition to solving problems for students and teachers, the help desk students will be required to complete and maintain several running projects that address problems or solutions in educational technology integration. The course also asks students to have a prior understanding of Apple OS, Microsoft Windows OS, and the iPad iOS. To be considered for Help Desk, students are required to interview with teacher, fill out an application and have two teacher recommendations. The members of the Upper Dauphin Area High School Tech Team will meet and approve all participants for this course. Application will be available in the late spring.

## INFORMATION TECHNOLOGY DEPARTMENT COURSE OFFERINGS

### **Dual Enrollment Computer Course Listings**

#### **(6438) HACC CIS 105 (Dual Enrollment Weighted)**

Grade 11 - 12

½ credit – 1 semester

3 college credits

This course is worth 3 credits from Harrisburg Area Community College if the student earns an average grade of an 'A' or 'B' for the semester. Student must purchase their own textbook and pass the required placement test for HACC in English, Reading, and Writing. This test will be given to students here at UDA. Tuition is \$150.00.

Introduction to Computer Applications is a fundamental course designed to survey general topics in the computer field. Topics include computer concepts, hardware and software applications, and emerging technologies. In this course, students will work individually and in groups to explore these topics. Emphasis is placed on providing experience for learning basic and advanced features of word processing, database management, spreadsheet, and presentation applications. This course takes the hands-on approach utilizing step-by-step instruction using various business and general interest topics. Students apply problem-solving skills to real-life situations through the use of the software applications.

#### **(PC6150) Penn College BW150: Introduction to Web Page Development (Honors)**

Grades 11 – 12

1 credit – full year

3 college credits

Prerequisites: Students must purchase their own textbook and pass the required placement test to enroll in the course. Penn College Reading and Math placement exam. Placement by Examination or MTH004 and Placement by Examination or RDG111

Introductory coverage of the Internet and online Web technologies. Skills learned include how to plan, create, and maintain static web pages. 3 Credits (3 Lecture – 0 Lab).

#### **(PC6124) Penn College CSC124: Information, Technology, and Society (Honors Weighted)**

Grades 10 – 12

1 credit – full year

3 college credits

Prerequisite: Students must purchase their own textbook and pass the required Reading placement test to enroll in the course.

Introduction to the basic concepts and applications of computer and Internet-related information technology and its impacts on individual users, businesses, groups, organizations, and society. Topics include access, evaluation, and use of digital information, ethical and security implications of information use and storage; human-computer interactions; social aspects of information systems; economic and legal issues; and professional presentation and communication of information. Information literacy skills that promote lifelong learning are developed through exposure to various existing and emerging technologies, including information resources, communication methods and technology. 3 Credits (3 Lecture – 0 Lab) Prerequisite(s): RDG111 or Placement by Examination.

**Sophomore-Approved Course**

## MATHEMATICS DEPARTMENT COURSE OFFERINGS

Every student is required to take four (4) math credits, three required and one elective. The three required courses are: Algebra I, (completed in either one academic year or two), Algebra II (if Algebra I was completed in one academic year), and Geometry. The required courses for students who took Algebra I in 8<sup>th</sup> grade are: Algebra II (or Honors Algebra II), Geometry (or Honors Geometry), and Precalculus (or Honors Precalculus). For students who take Transitional Math as a freshman, their required courses are Algebra IA and Algebra 1B.

### (1017) Algebra IA

Grade 9

1 credit – full year

Prerequisite: Final grade of 'C' or 'D' in 8<sup>th</sup> grade Pre-Algebra or a final passing grade in Transitional Math with teacher signature.

The Algebra IA course is the first half of Algebra I and is designed to prepare students for more advanced courses in mathematics. The course includes the study of real number operations and applications, linear equations and inequalities, probability, and linear functions. **A scientific calculator is required for this course.**

### (1019) Algebra IB

Grade 10 - 11

1 credit – full year

Prerequisite: A passing final grade in Algebra IA with teacher signature.

The Algebra IB course is the second half of Algebra I to be taken after passing Algebra 1A. This course includes the study of operations with real numbers & expressions, linear equations and inequalities, radicals, polynomials, linear relations and functions, systems of equations and inequalities and data. **A scientific calculator is required for this course.**

### (1015) Basic Geometry

Grade 11

1 credit – full year

Prerequisite: A passing final grade in Algebra 1B with teacher signature.

The Basic Geometry course will emphasize the concepts of geometry that are most applicable to the workplace, while also concentrating on topics required to meet Pennsylvania state standards. Topics include, but are not limited to, measurement, angles, triangles, polygons, circles, area and volume. **A scientific calculator is required for this course.**

### (4542) Consumer Mathematics

Grade 12

1 credit - full year

Prerequisite: Teacher signature.

This elective math course is a blend of personal finance and business mathematics. Basic math skills and fundamentals will be reviewed at the start of the course. The first semester will focus on personal finance topics such as gross and net income, checking and saving accounts, sales tax and unit pricing, credit cards, loans, purchasing a car, purchasing a home, types of insurance, and methods of investment. The second semester will focus on mathematical business applications. Topics such as personnel, production, purchasing, sales, marketing, distribution, and accounting will be discussed. **A calculator is required for this course.**



## MATHEMATICS DEPARTMENT COURSE OFFERINGS

### (1013) Algebra I

Grade 9

1 credit - full year

Prerequisite: A final grade of 'B' or better in 8th grade Pre-Algebra with teacher signature.

The Algebra I course will cover the concepts and skills required for success in the higher levels of mathematics. The course content includes units on operations with real numbers and expressions, linear equations and inequalities, radicals, polynomials, linear relations and functions, systems of equations and inequalities and data. **A scientific calculator is required for this course.**

### (1313) Keystone Algebra 1 Remediation

Grades 10 –11

½ credit – 1 semester

*\*\*The ½ credit for this class DOES NOT count as a Math credit.\*\**

This course is required for students who DID NOT pass the Algebra 1 Keystone Exam. It is designed to reteach and reinforce concepts to prepare students to retake the Algebra 1 Keystone Exam.

### (1023) Academic Algebra II

Grades 9 –10

1 credit – full year

Prerequisite: A passing final grade in Algebra I with teacher signature.

This course is a continuation of fundamental algebraic concepts, with an emphasis on the study of functions. It is intended for those students who will continue their education after graduation, but not necessarily in the math and science fields. Topics include systems of linear equations and inequalities, quadratic functions, polynomials, radical and rational functions, and trigonometric functions.

**A scientific calculator is required for this course.**

Note: Geometry or Honors Geometry and Academic Algebra II may be taken concurrently with teacher signature.

### (1014) Geometry

Grades 9 – 11

1 credit – full year

Prerequisite: A passing final grade in Academic Algebra II with teacher signature.

The Geometry course will emphasize the concepts of geometry that are required to meet PA Core standards. Topics include, but are not limited to, measurements, angles, triangles, polygons, circles, area, volume and transformations. **A scientific calculator is required for this course.**

Note: Geometry and Algebra II or Honors Academic Algebra II may be taken concurrently with teacher signature.

### (1024) Precalculus

Grades 10 - 12

1 credit – full year

Prerequisites: A final grade of 'C' or better in both Academic Algebra II and Geometry with teacher signature.

Precalculus extends topics of Algebra II and Geometry and introduces concepts of trigonometry through a graphing approach. Students can expect a rigorous pace and challenging material.

**A scientific calculator is required for this course.**

## MATHEMATICS DEPARTMENT COURSE OFFERINGS

### **(1224) Honors Precalculus**

Grades 10 – 12

1 credit – full year

Prerequisites: A final grade of 'A' or better in Honors Algebra II and Honors Geometry with teacher signature.

This course continues the development of the fundamental skills of algebra and trigonometry through a graphing approach. Advanced topics include analytic geometry and limits. Students can expect a highly rigorous pace and challenging material, in addition to advanced homework assignments.

**A scientific calculator is required for this course.**

### **(1118) Honors Calculus I**

Grades 11 – 12

1 credit – full year

Prerequisites: A final grade of 'B' or better in Honors Precalculus with teacher signature.

This course is designed for prospective mathematics majors, as well as those students whose primary interests are in engineering, physics, business or the life sciences. Topics include limits, derivatives and their application and techniques of integration and their application.

**A scientific calculator is required for this course.**

### **(HU1120) Math 120 (Harrisburg University) College Algebra**

Grades 11 - 12

1 credit - full year

Prerequisites: Completion of Precalculus or higher with a 'C' or better with teacher signature.

This course is intended for the college-bound student who desires to review algebraic, geometric, and trigonometric principles previously learned. Topics include properties of real numbers, problem-solving using equations and inequalities, algebraic functions, graphing, systems of equations and inequalities, polynomial functions and graphs, exponents and radicals, the binomial theorem, zeros of polynomials, inverse functions, exponential and logarithmic functions, trigonometry, and applications and graphs. Three credits will be awarded from Harrisburg University for successful completion of this course. Student cost will be \$300 plus textbook cost. **A calculator is NOT PERMITTED for this course.**

## MATHEMATICS DEPARTMENT COURSE OFFERINGS

### **(HU1220) Math 220 (Harrisburg University)/AP Calculus II**

Grades 11 - 12

1 credit – full year

Prerequisites: Seniors with a final grade of 'C' or better in Calculus I OR juniors having received an 'A' in both Honors Algebra II and Honors PreCalculus. Both require teacher signature.

This course is intended for the accelerated mathematics student. It is designed for prospective college level STEM (Science, technology, engineering, math).

This course will begin with the curriculum from the Harrisburg University Math 220 Calculus 1 syllabus. This will comprise roughly 60% of the year.

*Math 220: This content presents an introduction to the theory and applications of single variable differential and integral calculus. Three fundamental concepts will be developed: the Limit, the Derivative, and the Integral. Math 220 provides a flexible presentation of calculus incorporating a balance of basic mathematical theory with applications from the sciences and engineering. An introduction to first order differential equations, with applications, will also be presented if time permits. The course emphasizes development of individual problem solving skills and the applications of calculus to all the sciences.*

Once the Math 220 content is covered additional topics will include, but are not limited to, advanced differentiation and integration techniques and applications. The use of a graphing calculator to solve complex calculus problems will also be incorporated. Students who take this course will have the option to take this course for college credit (3) and/or take the AP Calculus AB Exam or merely take it as UDA Calculus 2 without cost. The cost associated with the course if taken for college credit is \$300.

### **(1021) Statistics**

Grade 12

1 credit – full year

Prerequisites: A final grade of 'B' or better in Academic Algebra II or Honors Algebra II with teacher signature.

This course is intended for the senior who will be pursuing a post-secondary education at a college or technical school. This course is most appropriate for students entering fields in nursing, business, education, law, psychology and the social sciences. The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference.

**A scientific calculator is required and a graphing calculator will be provided for this course.**

## MATHEMATICS DEPARTMENT COURSE OFFERINGS

### **(1114) Honors Geometry**

Grades 9 - 11

1 credit – full year

Prerequisites: A grade of 'A' in Honors Algebra II or Algebra I (if doubling with Honors Algebra II) with teacher signature.

Honors Geometry is an accelerated course designed for those students preparing for higher level mathematics and/or considering a post graduate math/science career. This course differs from the Geometry course in pacing and depth of content. The Honors Geometry course will emphasize the concepts of geometry including, but not limited to, measurement, angles, proofs, triangles, polygons, circles, area, volume, vectors and transformations.

**A scientific calculator is required for this course.**

Note: Honors Geometry and Honors Algebra II or Academic Algebra II may be taken concurrently with teacher signature.

### **(1123) Honors Algebra II**

Grades 9 - 10

1 credit – full year

Prerequisites: A final grade of 'A' in Algebra I with teacher signature.

Honors Algebra II is an accelerated course that is designed for those students who intend on continuing their studies in Honors Precalculus, Calculus and other higher level mathematics. This course moves at a faster pace than Academic Algebra II class and involves more emphasis on theory, a higher degree of difficulty in problem solving and more enhanced use of the graphing calculator. Topics include an in-depth study of nonlinear functions, specifically quadratic, polynomial, exponential, logarithmic, rational, radical, and trigonometric functions. **A scientific calculator is required for this course.**

Note: Honors Geometry or Geometry and Honors Algebra II may be taken concurrently with teacher signature.

### **(1701) Transitional Math 9**

Grade 9

1 credit – full year

### **(1705) Transitional Math 10**

Grade 10

1 credit – full year

### **(1710) Transitional Math 11** (Keystone Algebra)

Grade 11

1 credit – full year

### **(1715) Transitional Math 12**

Grade 12

1 credit – full year

Prerequisite: Prior approval is required.

Provides academic instruction to students who require a small, structured learning environment. The program is designed for students who require an intensive, highly individualized instructional approach.

### **(1809) Functional Math 9**

Grade 9

1 credit – full year

### **(1810) Functional Math 10**

Grade 10

1 credit – full year

### **(1811) Functional Math 11**

Grade 11

1 credit – full year

### **(1812) Functional Math 12**

Grade 12

1 credit – full year

Prerequisite: Prior approval is required.

Provides functional academic skills with a modified curriculum that addresses strategies utilized for everyday Math skills.

## MUSIC DEPARTMENT COURSE OFFERINGS

### **(7916) Foundations of Music Theory**

Grades 10 – 12

½ credit – 1 semester

Prerequisite: One year of experience in high school concert band or choir ensemble/instructor's permission.

This course is designed to develop and expand music theory knowledge, aural, and listening skills that include but are not limited to:

- Reading, writing and identifying patterns in music.
- Ear training
- Rhythmic and melodic dictation.
- Roman numeral analysis of a composition.

### **(7918) Honors Advanced Music Theory**

Grades 11 – 12

½ credit – 1 semester

Prerequisite: Foundations of Music Theory or instructor's permission.

This is a continuation of skills acquired in the Foundations of Music Theory course. Advanced Music theory refines and expands the analytic skills needed to understand how music is put together. Students enrolled in this course will be expected to compose and/or arrange music using techniques studied throughout the course. This is a suggested elective for students preparing for a career in music.

### **(7900) Choir Ensemble**

Grades 9 – 12

½ credit – full year A/B day

Choir Ensemble is open to all students who enjoy singing. Students will perform a variety of styles of music in mixed, women's, and men's choir settings. Concert attendance is mandatory. Basic knowledge of musical elements and solfege is beneficial, but not required.

### **(7920) Piano/Keyboard Techniques I**

Grades 9 – 12

½ credit – 1 semester

### **(7921) Piano/Keyboard Techniques II**

Grades 10 – 12

½ credit – 1 semester

### **(7922) Piano/Keyboard Techniques III**

Grades 11 – 12

½ credit – 1 semester

### **(7923) Piano/Keyboard Techniques IV**

Grade 12

½ credit – 1 semester

The various levels of Piano/Keyboard Techniques are designed to sequentially instruct students at all levels on skills specific to playing the piano. The course works at the student's pace as they learn the following skills:

Level I – Music reading, posture, finger placement, hand position, two hands playing together, common time signatures, block chords, broken chords, playing in the keys of C and G Major, use of the pedal.

Level II – Continuation of literature with two hands playing together, stretched hand positions, playing in major and minor keys with up to one sharp or flat.

Level III – Continuation to advanced literature with techniques including countermelodies, compound time signatures, playing in major and minor keys with up to two sharps or three flats.

Level IV – Continuation of advanced literature with techniques including alberti bass, finger pedaling, advanced rhythms, playing in major and minor keys with up to four sharps or flats. Repertoire includes many classical piano favorites from various periods in music history.

## MUSIC DEPARTMENT COURSE OFFERINGS

### **(7902) Concert Band**

Grades 9 – 12

½ credit – full year A/B day

Prerequisite: Successful completion of Book 1, knowledge of and facility with Concert F, B-flat, E-flat and A-flat key signatures, basic rhythmic fluency, and at least one year of middle school band.

Concert Band allows students the opportunities to perform a variety of styles of music within various ensemble and solo settings. Students will be required to attend group or individual lessons as scheduled. Concert attendance, including graduation, is mandatory.

### **(7909) Instrumental Musicianship**

Grades 9 – 12

½ credit – 1 semester

Prerequisite: At least one year of middle or high school band or choir ensemble.

Instrumental Musicianship is designed for students who have some previous music instruction and want to expand their knowledge of other instruments. This course will allow students to study the woodwind, brass and percussion families and become familiar with each band instrument through instruction on instrument-specific sound production and fingerings. Students will be expected to perform in solo and ensemble settings throughout the duration of the semester.

### **(7940) Music Technology (NOT OFFERED IN 2019 - 2020)**

Grades 9 – 12

½ credit – 1 semester

This is a project based course in which students will be instructed on how to use various computer software programs for music production, music notation, MIDI sequencing, mixing and editing. Students will compose and arrange original music, produce podcasts, tell a story solely through sound, and score music to video.

### **(7980) Music Appreciation**

Grades 9 – 12

½ credit – 1 semester

This course is intended to expose students to the many facets of music and explore the role of music in students' individual lives. Units include, but are not limited to: World Music, Music as Identity, and the Evolution of Popular Music. These units will cover artists, styles and characteristics associated with the topic.

## MUSIC DEPARTMENT COURSE OFFERINGS

### **(7990) Broadway Musical Productions**

Grades 9 – 12

½ credit – 1 semester

This course will explore the evolution of Broadway musicals from their origins in opera through today's hits. Students will explore functions of music and lyrics, character development, and other elements of a musical, and compare texts with interpretations in live and video productions. This course will also cover stage terminology, vocal and movement training, acting, and aspects of technical production including stage design, lighting design, sound reinforcement, costuming, and makeup.

### **(7950) Advanced Instrumental Music Study**

Grades 11 – 12

½ credit – 1 semester

Prerequisite: At least two years in high school concert band or the instructor's permission.

This course is designed to help students prepare the instrumental audition requirements for a university music program. We will concentrate on developing independent practice skills, preparing music for advanced levels of performance, ear training, and sight-reading. Students will prepare for weekly lessons and perform a recital at the conclusion of the semester.

### **(7952) Instrumental Music Study**

Grades 9 – 12

¼ credit – semester A/B day

This course is designed for students enrolled in concert band. Students will develop practice skills, prepare music for individual or group lessons and performance, and play in small ensemble settings.

## SCIENCE DEPARTMENT COURSE OFFERINGS

### **(2310) Earth Science**

Grades 9 - 12

1 credit – full year

Earth Science is designed to give students a background in the following areas: rocks and minerals, weather, groundwater, running water, weathering and erosion, and the dynamic processes of plate tectonics (earthquakes, volcanoes, etc.). The study focuses on the connections between the earth's various systems. The class will emphasize hands-on experiences and the use of other educational tools.

### **(2920) Biology with Lab**

Grade 9

1½ credits – full year

This course is designed to prepare 9<sup>th</sup> grade students to take the Biology Keystone Exam, a required state assessment. The following topics will be studied in detail: chemistry of life, ecosystems, environmental science, cells, cellular transport, photosynthesis & respiration, cell growth & reproduction, genetics, genetic engineering, and evolution. The lab period will be used to reinforce concepts learned in class through various hands on activities.

### **(2930) Honors Biology with Lab**

Grade 9

1 ½ credits – full year

Prerequisites: An 'A' average in 7<sup>th</sup> & 8<sup>th</sup> grade Science and Proficient or Advanced on the 8<sup>th</sup> Grade Science PSSA.

This course is designed for accelerated science students to both prepare them for the Biology Keystone and cover the material in greater depth. The following topics will be covered in greater depth: chemistry of life, ecosystems, environmental science, cells, cellular transport, photosynthesis and respiration, cell growth and reproduction, genetics, genetic engineering and evolution. The lab period will be used to reinforce concepts learned in class through various hands on activities. This class will include a greater emphasis on lab skills and technical writing of lab reports, as well as including more written work and projects requiring independent research. Students should take Honors Biology, Biology with Lab OR General Biology; they all fulfill the same required Biology credit.

### **(2820) General Biology**

Grade 9

1 credit – full year

*Recommendation: In addition to this class it is recommended that the student sign up for "Introduction to Animal, Plant and Soil Science" as the two courses overlap in their content and this tends to help the struggling science learner.*

This course is designed for those students who typically struggle in science to prepare them for the Biology Keystone. The following concepts will be covered: chemistry of life, ecosystems, environmental science, cells, cellular transport, photosynthesis and respiration, cell growth and reproduction, genetics, genetic engineering and evolution. Students who historically struggle with science should consider this course, as the pace will be slower and the content will not be covered to the same degree of depth as Biology with Lab class. Students should take Honors Biology, Biology with Lab OR General Biology; they all fulfill the same required Biology credit.

### **(2990) Keystone Bio Remediation**

Grades 10 – 11

½ credit – 1 semester

***\*\*The ½ credit for this class DOES NOT count as a Science credit.\*\****

This course is designed for students who DID NOT pass the Biology Keystone Exam. It is designed to reteach and reinforce concepts to prepare students to retake the Biology Keystone Exam.



## SCIENCE DEPARTMENT COURSE OFFERINGS

### **(2330) College Prep Chemistry & Lab**

Grades 10 – 12

1½ credits – full year

Recommended Prerequisite: Successful completion of Biology, Algebra I and Algebra Keystone Exam. It is also recommended that you are at least currently taking Algebra II.

This course provides a complete chemistry course for students who intend to go on to college, but not necessarily to major in a science-related field. A lab period will be scheduled to allow for experimentation, formal lab write-ups, demonstrations, reinforcement activities, and research activities. Chemistry and Chemistry Lab are considered to be one course – one grade is calculated that is inclusive of the two parts, and therefore both courses must be scheduled together.

The format of this course will involve a combination of lecture, research, discussion groups, experimental activities, and an integration of reading and writing activities. There is a focus on the chemistry standards as required by the state, as well as other science, technology and environmental standards.

### **(2450) Physical Science**

Grades 10 – 12

1 credit – full year

This course will cover topics in physics (mechanical, thermodynamics, electricity and magnetism, etc.), and chemistry (matter, bonds, reactions, etc.). This course is designed as an alternative to the college preparatory science classes for those students who do not plan to go to college, but need to fulfill their science credit requirements for graduation and for the state science assessments related to physical science. Skills learned in this course will also help students to score better on the ASVAB and math Keystone exams. This course is not appropriate for students who have passed chemistry and physics.

### **(2125) Advanced Placement Biology & Lab**

Grades 11 – 12

1½ credits – full year

Prerequisites: A grade of 'B' or better in Biology and Chemistry.

The AP Biology course is designed to be the equivalent of a college introductory biology course. The textbook used for AP/biology is also used by college biology students. The types of labs completed by the AP students will be the equivalent of those performed by college students.

The AP Biology course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology.

Students, after showing themselves to be qualified on the AP Examination, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite. Other students may have fulfilled a basic requirement for a laboratory-science course and will be able to undertake other courses to pursue their majors. Students in this class should take the AP Biology Exam at the end of the year. Financial aid may be available.

## SCIENCE DEPARTMENT COURSE OFFERINGS

### **(2340) College Prep Physics & Lab**

Grades 11 – 12

1½ credits – full year

Prerequisite: 'B' or better in Precalculus or concurrently enrolled in Precalculus.

The CP Physics course is primarily intended for those students who are bound for higher education with a science- oriented major of study. The course includes the study of the inter-relationship of matter, energy and nuclear physics and their role in everyday living. The first semester will focus on Kinematics (1-D Motion, 2-D Motion, Forces, Work, Energy, Circular Motion, etc.), while the second semester will cover Electricity, Magnetism, Optics and Thermodynamics. Students may opt to take the AP Physics B exam in the spring.

### **(2116) Honors Advanced Chemistry**

Grades 11 – 12

½ credit – semester or A/B day

Recommended Prerequisite: Successful completion of College Prep Chemistry and Algebra II with a grade of 'B' or better. It is also recommended, but not mandated, that students have completed a physics course or are currently taking a physics course.

This course is designed for students who plan to go to college to study any of the sciences, engineering, nursing, pre-medical studies or any similar field. The course will review some topics previously studied at a higher level of understanding as well as cover additional topics such as organic chemistry, nuclear chemistry, and oxidation-reduction reactions. There will be no additional laboratory period required for this course, but there will be laboratory activities incorporated into the course.

### **(2350) Honors Electricity & Magnetism**

Grades 11 – 12

½ credit – semester or A/B day

Prerequisite: 'B' or better in College Prep Physics

This course is intended for college bound students who are interested in pursuing a STEM field or anyone with an interest in E&M. It will cover topics in E&M such as Static Electricity, Electric Fields, Electric Potential Energy, Basic Electric Circuits, Magnetism, and Electromagnetism. This course is math intensive.

### **(2360) Honors Waves, Sound & Optics**

Grades 11 – 12

½ credit – semester or A/B day

Prerequisite: 'B' or better in College Prep Physics or 'A' in Physical Science and Precalculus

This course is intended for college bound students who are interested in pursuing a STEM field or anyone with an interest in sound or optics. It will cover Properties of Waves, Properties of Sound, Properties of Light, Mirrors and Lenses, and Vision and Optical Instruments.

## SCIENCE DEPARTMENT COURSE OFFERINGS

### **(2510) Anatomy & Physiology**

Grades 10 – 12

1 credit – full year (NO LAB)

Prerequisites: Students must successfully complete Biology with a 'B' or Better

This class includes the subject areas of biology, chemistry, physics and wellness. The course explores the components of physiology, anatomy, disease, today's society and kinesiology – areas that comprise the human body as a whole. This course looks at the complex components of the body and shows how they work together to provide functioning and a total well-being. The student will be challenged to understand how bodily systems work together to maintain homeostasis, know gross and surface anatomy of the skeletal and muscular systems and, with this knowledge, analyze movement. This course is designed for those students who wish to pursue a profession in the medical field or have an interest in a knowledge base that promotes health.

### **(2530) Astronomy**

Grades 10 – 12

½ credit – semester or A/B day

Astronomy is designed to give students the basics of astronomy. The following topics will be studied: history of astronomy, history and formation of the universe and our solar system, constellations, the planets, the moon, and current events in astronomy. The class will emphasize hands-on and eyes-on experiences and the use of other educational tools.

### **(2560) Environmental Science**

Grades 10 – 12

½ credit – semester or A/B day

Environmental Science is designed to give students a background in the environment and how humans interact with it. We will focus on the following topics: environmental history, human population, energy, pollution, invasive species, environmental policy, and environmental ethics. The course will involve problem-based learning and multiple projects.

### **(PC2200) Penn College HTH100: Introduction to Health Careers**

Grades 10 – 12

½ credit - semester or A/B day

2 college credits

Prerequisites: 'B' or better in Biology or taking Anatomy during the same year, all students will need to pass competency tests to be eligible to take the classes, students must purchase their own textbook and pass the required placement exam to enroll in the course.

Examination of health majors and careers, including an evaluation of personalities in relation to career interests and values needed for success and satisfaction in the health care professions. Topics include discussion of requirements, daily roles, employment opportunities, and projections for the future in each of the selected health care fields.

### **(PC2104) Penn College MTR104: Basics of Medical Terminology**

Grades 11 – 12

½ credit - semester or A/B day

3 college credits

Prerequisites: 'B' or better in Anatomy and Biology, all students will need to purchase their own textbook and pass the required placement exam to enroll in the course.

Foundation for the use of the language of medicine, with emphasis on correct pronunciation and spelling, various word parts, abbreviations and symbols, and terms pertaining to body systems. Etiology, symptomatology, pathology, and diagnostic procedures for identifying various disease processes provide an increased understanding of medically related conditions and procedures.

## SCIENCE DEPARTMENT COURSE OFFERINGS

### **(PC2100) Penn College CHM100: Fundamentals of Chemistry**

Grades 10 – 12

1 ½ credits – Full Year  
4 college credits

Prerequisites: Placement by Examination or MTH005. You also need to have successfully completed Algebra I and Algebra II (or you are currently taking Algebra II).

Basic principles of chemistry and its practice in the laboratory. Emphasis on the underlying structure of matter (atoms, ions, molecules) and how structure determines properties. Designed to teach chemistry terminology and symbols, as well as to develop analytical and critical thinking skills. Appropriate for non-science majors needing one term of chemistry or to satisfy a lab science requirement. Also appropriate for those who desire background before taking General Chemistry I (CHM111). No prior knowledge of chemistry is assumed, but some algebra skills are needed.

## SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

### **(3010) Modern World History**

Grade 9

1 credit – full year

Students will study major turning points that shaped the modern world from mid-15<sup>th</sup> century to the present using the traditional theme-focused classroom format. Students will use this information to develop an understanding and appreciation of current world events and relate these events to their historical, geographic, political, and cultural context.

The evaluation process will consist mostly of tests, quizzes, and other forms of written work. At times throughout the year, students will have additional assignments and projects that will enrich the educational process of a student at Upper Dauphin Area High School.

### **(3210) Honors Modern World History**

Grade 9

1 credit – full year

Prerequisites: An 'A' average in 8th Grade Social Studies *plus* a teacher recommendation is required for this class. The student should also possess all of the qualities of an honor student: higher level thinking skills, homework completion, high achieving test grades, in-depth written work, good attendance, and high levels of class participation. Academic motivation and a strong student work ethic will ensure success in this course. Completion of the summer reading assignment is required.

In this intensive course, students will analyze major regions of the world and their contributions to shaping the modern world from mid-15<sup>th</sup> century to the present. A focus will be put on detailed writing assignments, class discussion and the use of abstract thought. Students will learn how the different regions of the world molded-not only modern world history, but also modern political thought, geography, culture and the modern world economy.

This class will be writing-intensive and the evaluation process will be in-depth and more advanced than those of the other world history sections. At times throughout the year, students will have additional assignments and projects that will add to the educational process of an Honors student at Upper Dauphin Area High School.

### **(3227) Honors American History I**

Grade 10

1 credit – full year

Prerequisites: An 'A' or 'B' in previous Social Studies course plus teacher recommendation. Candidates may be required to submit a writing sample as well. Completion of the summer reading assignment is required.

Honors American History I will cover American History during the time period of the Pre-Columbian Era 1491 through 1877 reconstruction. Grading for the course will be based on exams, quizzes, essays, projects, and presentations. Historical thinking skills and themes will be presented and studied. Students will focus on preparing arguments to solve historical questions. In addition, students will study opposing viewpoints on historical issues. There will be a heavy emphasis on outside readings and assignments including a Summer Reading Assignment. Students will be taught how to write answers to short answer questions and long essay questions. Data-based questions will also be introduced. A writing assessment will be included on all the major periods of history that are covered. Students who wish to take the advanced placement honors history course during their junior year should consider taking this course.

## SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

### **(3026) American History I**

Grade 10

1 credit – full year

This course will cover American History from the pre-Columbian period, 1491 of European explorations through 1877 reconstruction. There will be heavy emphasis on how economics, politics, geography, and social issues transformed America.

Students will be graded on tests, quizzes, homework, projects, and possibly a Research Paper in conjunction with the English Department.

### **(3060) Local History**

Grades 10 - 12

½ credit – 1 semester

The Local History Class will increase the student's knowledge and appreciation of local history.

Students will analyze the founding of local communities and townships in terms of the individuals, businesses, and industries which created them. A focus will be on people of interest, major historical events and locations.

Grading will be based upon extensive outside the classroom assignments which will include: Visiting a Local Historical Society Meeting, Reading, PowerPoint Presentations, Photography Assignments, Research of Local History subjects. A major requirement is the end of the semester "Bringing Local History Alive" presentation to the entire class which will need to be completed in order to earn credit for the course.

### **(3228) AP United States History**

Grade 11

1 credit – full year

Prerequisites: An 'A' in the previous social studies course or an 'A' or 'B' in the previous honors social studies course in addition to teacher recommendation. Candidates may be required to submit a writing sample as well. Completion of the summer reading assignment is required.

This course builds on the Honors American History I course. This course content includes the history of the United States from the pre-Columbian Era, 1491 to the present in a manner that will prepare students for the Advanced Placement exam given in May of the junior year. All 9 periods of US history will be covered by either review of 10<sup>th</sup> Grade Honors American History I course and the presentation of new curriculum material. Students will use historical thinking skills to understand and analyze the causes and effects of major events, the trends/themes in major areas, and the significant historiographical controversies concerning each of the 9 periods of US History will be studied. Students will prepare arguments on historical topics, write questions to long essay questions, data based questions, and short answer questions. A writing assessment in AP format on every period is required.

Required assignments include summer reading, a book report emphasizing historical setting, projects involving primary sources, extensive outside the classroom writing and analysis, primary source readings and papers. Successful students will be required to complete extensive outside of the classroom work and study.

## SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

### **(3028) American History II**

Grade 11

1 credit – full year

The course covers the period from 1877 to the present time, with particular emphasis on the coordination of political, economic and social events in this period of the American experience. The main emphasis of the course is to help students obtain the knowledge that is necessary to participate in our society. Grading will be based on tests, participation in class, homework and reports.

### **(3043) Psychology**

Grades 11 – 12

½ credit – 1 semester

Psychology, the study of the mind and behavior, is designed for students who plan to continue their education after high school. The course will focus on topics such as: historical approaches, research methods/statistics, life span, workings of the mind and body, learning and cognition, personality and disorders.

### **(3042) Intro to Economics**

Grades 10 – 12

½ credit – 1 semester

Economics provides an understanding of fundamental economic concepts, demand & supply, the operation of the United States' economy and of current economic problems facing the nation. The majority of the course focuses on the fundamental economic concepts and microeconomics. Many concepts are applied in class through simulations and projects.

Grading will be based on homework, quizzes, tests, and participation in class.

### **(3305) College Prep Principles of Microeconomics**

Grades 11 – 12

½ credit – 1 semester

Prerequisite: An 'A' or 'B' in *Intro to Economics* and/or the recommendation of the economics teacher.

The course is designed to prepare students for future college courses in economics. Students should have already taken the *Intro to Economics* course and have a firm understanding of fundamental economic concepts.

The approach in **Microeconomics** will be to give the students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting great efficiency and equity in the economy. **Math skills required.**

Grading will be based on tests (including essay questions), quizzes, and class projects.

## SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

### **(3315) College Prep Principles of Macroeconomics**

Grades 11 – 12

½ credit – 1 semester

Prerequisite: An 'A' or 'B' in *Intro to Economics* and/or the recommendation of the economics teacher.

The course is designed to prepare students for future college courses in economics. Students should have already taken the *Intro to Economics* course and have a firm understanding of fundamental economic concepts.

The approach in **Macroeconomics** will be to give the students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. **Math skills required.**

Grading will be based on tests (including essay questions), quizzes, and class projects.

### **(3050) Freedom: Understanding the Nation**

Grades 11 – 12

½ credit – 1 semester

Freedom: Understanding the Nation is geared toward those students with an interest in political science - the study of governments, public policies, political processes, and political behavior.

In order for the United States to continue to succeed and be a leading voice for freedom and democracy in the world, it is essential for Americans to understand and participate in the government of this country. The government impacts the lives of all Americans, from providing services, to setting public policy, to establishing, interpreting, and enforcing laws.

This course will examine concepts such as the foundations of American government, state and local government, public policies and services, civic participation, and freedoms, rights, law, and justice.

Grading will be based on the following: tests, quizzes, projects, oral/visual presentations, class discussion, homework, class work, and a final examination.

### **(3070) U.S. Conflicts**

Grades 10 – 12

½ credit – 1 semester

An in-depth look at prominent resistance, wars, and social movements in America during the 17<sup>th</sup>, 18<sup>th</sup>, 19<sup>th</sup>, and 20<sup>th</sup> centuries; along with detailing current events. This course focuses on conflicts in order to get a better understanding of the politics, society, and culture of the United States. Native American and slave revolts are examined, along with wars and battles in American history. Students develop a substantial research paper on a particular conflict drawing on academic interpretations and primary sources.



## SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

### **(7210) Honors Humanities 100 (NOT OFFERED in 2019-2020)**

Grades 11 – 12

1 credit – full year

Prerequisite: Recommendation of Humanities and/or current English/Social Studies teacher

Honors Humanities 100 is the introduction to a two-year sequential multi-disciplinary college-level course taught by faculty from the Art and Music Departments. The philosophies, music, and art forms of the major Western civilizations and cultural epochs from the Ancient World to the modern day are studied and analyzed in close detail with a heavy emphasis placed on the interrelationships evident between all three. Students will be required to write a research paper each marking period, complete weekly exams and actively participate in Seminar discussions.

### **(7220) Honors Humanities 101 (OFFERED in 2019 - 2020)**

Grades 11 – 12

1 credit – full year

Prerequisite: Recommendation of Humanities and/or current English/Social Studies teacher.

Honors Humanities 101 is the continuation of a two-year sequential multi-disciplinary college-level course taught by faculty from the Art and Music Departments. The philosophies, music, and art forms of major Western civilizations and cultural epochs from the Ancient World to the modern day are studied and analyzed in close detail with a heavy emphasis placed on the interrelationships evident between all three. Students will be required to write a research paper each marking period, complete exams, and actively participate in seminar discussions.

## STUDENT ASSISTANTS

### **(9600) Teacher Assistant**

Grades 9 – 12

1 credit – full year

This class is for students wanting to assist the Life Skill's teacher with the day to day activities in the special needs classroom. This may include tutoring, basic classroom duties and other day to day tasks to assist the teacher.

### **(9601) Teacher Assistant**

Grades 9 – 12

½ credit – 1 semester

This class is for students wanting to assist the Life Skill's teacher with the day to day activities in the special needs classroom. This may include tutoring, basic classroom duties and other day to day tasks to assist the teacher.

## STUDENT SERVICES

Students who have an Individualized Education Program (IEP) will most likely be scheduled for a resource class. Please see the description below for more information. Entrance to special education is by testing, the recommendation of an educational psychologist and the IEP team.

### **Resource**

Students will be provided with academic assistance and opportunities to prepare, organize, plan, and complete assignments for their other classes. Academic progress will be reviewed weekly and remediation will be provided when deemed necessary. Prior approval is required.

#### **(9750) Resource**

Grades 9 – 12

#### **(9751) Resource**

Grades 9 – 12

#### **(9752) Resource**

Grades 9 – 12

## WELLNESS/PHYSICAL EDUCATION DEPARTMENT COURSE OFFERINGS

### **(9091) Freshmen Health**

Grade 9

½ credit – full year

Freshmen Wellness is a course designed to provide students with an accurate understanding of the important topic of human sexuality. This class will cover the major aspects of human sexuality including but not limited to: healthy relationships, female and male reproduction, contraception, the risks of sexual activity, and STI's.

### **(9092) Freshmen Physical Education**

Grade 9

½ credit full year

Freshman Physical Education is a course designed to provide a learning environment that will allow students to succeed by practicing and developing skills and activities that will help maintain fitness throughout their life. The focus is to promote fitness, along with developing skills that will provide the opportunity for students to participate in a variety of activities, into their adult lives. Students will be introduced to activities in strength training, fitness testing, cardiovascular conditioning, recreational activities, team sports, lifetime sports, and individual fitness challenges.

### **(9101) Sophomore Health**

Grade 10

½ credit – full year

Sophomore Wellness is a course designed to provide students with an accurate understanding of the following health topics: organ donation, first aid and CPR, the skeletal system, muscular system, and drug education. The students will complete an extensive drug research project that will utilize the BIG 6 researching skills. The class will investigate the following areas: facts, effects, treatment, and the brain. The individuals will present their findings using a Web 2.0 presentation format.

### **(9102) Sophomore Physical Education**

Grade 10

½ credit full year

Sophomore Physical Education is a course designed to expand upon student's knowledge and skills related to physical education. The focus is to promote fitness, along with developing skills that will provide the opportunity for students to participate in a variety of activities, into their adult lives. Students will be introduced to activities in strength training, Fitness testing, cardiovascular conditioning, recreational activities, team sports, lifetime sports, and individual fitness challenges.

## WELLNESS/PHYSICAL EDUCATION DEPARTMENT COURSE OFFERINGS

### **(9111) Junior Wellness**

Grade 11

½ credit – full year A/B day

Junior Wellness is a course designed to provide students with the knowledge and skill required to lead a healthy life. The focus of the course is personal fitness. Specific units will include cardiovascular fitness, strength training, circuit training, and other popular fitness programs (i.e. T25). Topics covered include target heart rate, components of strength training, and lifelong fitness. The overarching goal of this course is that each student will have the educational background necessary to design and implement a personal fitness program at any point throughout their life.

### **(9150) Strength and Conditioning**

Grade 9 – 12

½ credit – full year A/B day

Prerequisite: Students wishing to enroll in this class will need a recommendation from a PE teacher, or their coach, and a parent signature.

The course will provide an opportunity for development of strength and conditioning for various sports and fitness related activities. Free weights, exercise machines, and conditioning activities will be incorporated to promote improvement in strength, endurance, balance, agility, and speed. Proper technique, safety precautions, and application of training principles will be emphasized. A plan to achieve goals will be developed and implemented. This course is an elective that cannot be used for wellness credit applied toward graduation requirements.

## WORLD LANGUAGE DEPARTMENT COURSE OFFERINGS

In today's world, understanding the language and the culture of another country is a highly marketable skill in a wide range of occupations. The ability to communicate in another language and to understand the customs of its speakers is an advantage in almost any field, both here in the United States and abroad. The road to acquiring these skills begins in the high school world language classroom.

Many colleges have both a world language requirement for admission and a number of college level credits necessary for most students to obtain their degree. Therefore, successful completion of at least two years of the same language on the high school level will be a definite asset. For the many students who will be required to take a language in college, **four** years of the same language in high school is recommended to provide the best preparation for those college courses. Of course, the usefulness of knowing another language is not limited to the college-bound.

**Students planning to take a foreign language should understand that they must make a commitment of time and effort in order to learn any language. Regardless of which language is chosen, it is important to complete all assignments, to practice and review material regularly, and to prepare thoroughly for tests.**

### (5021) French I

Grade 9

1 credit – full year

Students will acquire language skills necessary for basic reading, writing, speaking, and listening. Fundamental grammatical structures are taught and emphasized through oral and written practice. Francophone culture is introduced, with an emphasis on France. Students are further exposed to French through audio-visual and support materials. This is an online class which is supervised and monitored by one of our English teachers.

### (5022) French II

Grade 10

1 credit – full year

Prerequisite: French I

Basic concepts from French I are reviewed and expanded upon. Students are introduced to new grammatical concepts and speech patterns. Concepts are practiced through oral and written exercises. Increased conversation is emphasized, as well as study of other Francophone culture. This is an online class which is supervised and monitored by one of our English teachers.

### (5023) French III

Grade 11

1 credit – full year

Prerequisite: French II and a grade of 85% or higher

More advanced grammatical concepts are introduced, practiced, and reinforced through written and oral practice. A more detailed study of Francophone culture is provided. Short story readings are also included.

This is an online class which is supervised and monitored by one of our English teachers.

### (5224) Honors French IV

Grade 12

1 credit – full year

Prerequisite: French III and a grade of 93% or higher

Upper-level concepts are introduced and practiced. Emphasis is on increased language use through conversation and reading. French history and culture will be studied in more depth. Current topics in France, such as religion, politics, and social structure will be examined and discussed in French.

This is an online class which is supervised and monitored by one of our English teachers.

## WORLD LANGUAGE DEPARTMENT COURSE OFFERINGS

### **(5031) Spanish I**

Grade 9

1 credit – full year

Students learn the fundamentals of the language necessary for basic conversation, reading and writing. Grammatical structures and vocabulary are taught and practiced through oral and written exercises. Students are introduced to the countries of the Spanish-speaking world with emphasis on a study of Spain and are exposed to Hispanic traditions and lifestyles through reading, research projects and audio-visual support materials.

### **(5032) Spanish II**

Grade 10

1 credit – full year

Prerequisite: Spanish I

Basic speech patterns learned in Spanish I are reinforced and expanded. New vocabulary and grammatical concepts are added and developed through oral and written exercises. A study of Mexico is included through readings, research projects and audio-visual support materials.

### **(5033) Spanish III**

Grade 11

1 credit – full year

Prerequisite: Spanish II and a grade of 85% or higher

Additional vocabulary and more complex grammatical concepts are introduced and reinforced, and communication skills are expanded through more intensive reading, writing, speaking and listening activities. Culture readings include a more detailed study of Spain and Spanish America, particularly South America. Textbook material is supplemented by research projects and audiovisual support materials.

### **(5234) Honors Spanish IV**

Grade 12

1 credit – full year

Prerequisite: Spanish III and a grade of 93% or higher. Teacher recommendation and submission of summer work.

Troublesome grammatical points are reviewed as needed, and more advanced grammatical points will be introduced to prepare students for college placement tests. The major focus of this level is to improve and expand reading, writing, listening and speaking skills, through the continued study of people and lifestyles in Spain and Spanish America as well as the history and literature. Topics such as religion, the family, roles of men and women, death, education and Hispanics in the U.S. are examined and discussed in Spanish. Students will be expected to discuss cultural issues and literary elements, as well as present research projects in written and spoken Spanish.

### **(5250) Independent Spanish V**

Grade 12

1 credit – full year

Prerequisite: Spanish IV and teacher recommendation

Honors Spanish V will continue to develop advanced reading and writing skills of the Spanish Language while focusing on current events and Hispanic authors and their works. Literary devices will be reviewed throughout the literature study, as well as the format of a variety of genres. A review of grammar and usage will occur as part of the reading and writing process, as well as the continuation of vocabulary development.

## WORLD LANGUAGE DEPARTMENT COURSE OFFERINGS

### **(5041) German I**

Grade 9

1 credit – full year

In German I, the student will acquire simple listening and speaking skills reinforced by a gradual study of related grammatical concepts. Traditions and lifestyles of the various German-speaking countries will be considered. Grades are derived from quizzes, tests, dialogues to be memorized and some special projects.

This is an online class which is supervised and monitored by one of our English teachers.

### **(5042) German II**

Grade 10

1 credit – full year

Prerequisite: German I

In German II, the student will deal with more advanced audio-lingual and grammatical concepts. The material will continue to revolve around various aspects of modern living in the German-speaking countries. Grades are derived from quizzes, tests, dialogues, and special projects.

This is an online class which is supervised and monitored by one of our English teachers.



## CAREER & TECHNICAL EDUCATION PROGRAMS

The Upper Dauphin Area High School offers 3 Career & Technical Education Programs including Agriculture, Building Trades, and Diversified Occupations. Interested students who meet the eligibility requirements will take coursework throughout high school and earn the proper credits to be considered a vocational concentrator/completer. Students who successfully complete coursework will also qualify for the NOCTI exam, a nationally recognized exam that measures the skills of those who complete a secondary technical program. Based on the results of this exam, students will have the opportunity to earn a certificate or college credit in the respective technical area.

Completer of any CTE program requires 1320 hours.

Concentrator of any CTE program requires 50% or 660 hours.

Each credit earned in a technical program is equivalent to 120 hours. A student needs to take and pass a minimum of 5.5 credits in a given technical area to qualify to take the NOCTI Exam. The NOCTI exam is given in the spring of your senior year.

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Source: Bureau of Labor Statistics  
<https://www.bls.gov/ooh/life-physical-and-social-science/agricultural-and-food-scientists.htm>

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in its programs or activities. Inquiries should be directed to the UDASD Title IX Coordinator.

## Agriculture & Natural Resources Courses and Pathways

**(Upon successful completion of courses marked with a (\*Sci), science credit is awarded.)**

<b><u>Level I Course</u></b>
<b><u>(8040) Foundations in Ag &amp; Natural Resources</u></b> Strongly suggest that students take this course in the freshman year.
<b><u>Level II Courses</u></b>
Important note: It is strongly suggested that students complete both Level II courses by the end of their sophomore year.  <b><u>(8051) Introduction to Agricultural Mechanics and Technology (*Sci)</u></b>  <b><u>(8053) Introduction to Animal, Plant Science, and Soil Science (*Sci)</u></b>

<b><u>Level III Courses</u></b>			
<ul style="list-style-type: none"> <li>After completing a Level II course, the ½ credit courses listed below can be taken according to the student's career interests. Pay close attention to the prerequisite course numbers listed for each Level III course.</li> <li>After students complete Level I and at least one Level II course, and with teacher permission, Supervised Ag Experience (SAE) is available and recommended for all pathways.</li> </ul>			
<b><u>Power, Structural, &amp; Technical Systems</u></b> <u>Prerequisite: 8051</u>	<b><u>Animal Systems</u></b> <u>Prerequisite: 8053</u>	<b><u>Plant Systems</u></b> <u>Prerequisite: 8053</u>	<b><u>Natural Resources Systems</u></b> <u>Prerequisite: 8053</u>
<ul style="list-style-type: none"> <li><u>Advanced Ag Mechanics</u></li> <li><u>Engine and Machine Technology</u></li> <li><u>Small Gas Engines</u></li> <li><u>Basic Welding</u></li> <li><u>Advanced Welding</u></li> </ul>	<ul style="list-style-type: none"> <li><u>Animal Science (*Sci)</u></li> <li><u>Dairy/Livestock Production &amp; Management</u></li> <li><u>Equine Management</u></li> <li><u>Meat &amp; Food Science</u></li> </ul>	<ul style="list-style-type: none"> <li><u>Greenhouse Production &amp; Management</u></li> <li><u>Advanced Horticulture</u></li> <li><u>Crop &amp; Soil Science (*Sci)</u></li> </ul>	<ul style="list-style-type: none"> <li><u>Forestry</u></li> <li><u>Wildlife Management</u></li> <li><u>Crop &amp; Soil Science (*Sci)</u></li> </ul>

## AGRICULTURE AND NATURAL RESOURCES COURSE OFFERINGS

These courses are designed to meet the needs of students seeking careers in this area of study, and also to provide enrichment and utility courses for all students. Please consult the career pathways table found above.

**\*Sci = Credit for these courses may be used as a science credit.**

### Level I Course

#### **(8040) Foundations in Ag & Natural Resources**

Grade 9

½ credit – 1 semester

This ½ credit course introduces students to the agricultural and natural resources industries. This course includes an introduction to the AG Experience Tracker, a web-based system for keeping FFA and Supervised AG Experiences (SAE) records. FFA activities will also be an important part of this course. Because of its general content, this course is strongly suggested for all career paths. It can be taken any time, but it is strongly suggested that students take this course in the freshman year.

### Level II Courses

Important note: For those with career interest in this area, it is strongly suggested that students complete both of these Level II courses by the end of their sophomore year.

#### **(8051) Introduction to Agricultural Mechanics and Technology (\*Sci)**

Grades 9 – 10

½ credit – A/B day

This ½ credit course focuses on the scientific principles underlying the study of machine and technological systems in agricultural production and natural resource systems. FFA activities related to course units of instruction will be integrated into classroom activities. This course intended to pair with 8053 whenever a student's schedule permits, and it is a prerequisite for many Level III courses, as specified below.

#### **(8053) Introduction to Animal, Plant Science, and Soil Science (\*Sci)**

Grades 9 – 10

½ credit – A/B day

This ½ credit course focuses on the scientific principles underlying the study of animals, plants, and soils in agricultural production and natural resource systems. FFA activities related to course units of instruction will be integrated into classroom activities. This course intended to pair with 8051 whenever a student's schedule permits, and it is a prerequisite for many Level III courses, as specified below.

## AGRICULTURE AND NATURAL RESOURCES COURSE OFFERINGS

### Level III Courses

After completing a Level II course, the ½ credit courses listed below can be taken according to the student's career interests. Pay close attention to the prerequisites specified for each Level III course.

#### **(8013) Basic Welding**

Grades 9 – 12

½ credit – 1 semester

Students will begin with basic instruction in welding careers, shop safety, print reading, oxy-acetylene processes, and advance to electric arc, metal inert gas (MIG) welding. The plasma-cutting technique will also be a part of this course, along with a brief introduction to Tungsten Inert Gas (TIG) welding. The emphasis is on fundamentals in preparation for more advanced study and practice in this subject area.

This course is part of the AG Science Program of Study, and it is a prerequisite for the Welding Technology/Welder Program of Study.

#### **(8014) Small Gas Engines**

Grades 10 – 12

½ credit – 1 semester

This course covers the small gas engine and its systems, such as carburetion, ignition, compression, governing and cooling. Use of common shop tools and measuring devices as well as tune-up and repair is emphasized. Students will also work in small groups disassembling and reassembling a single cylinder engine. Must have completed 8051

#### **(8016) Engine and Machine Technology**

Grades 10 – 12

½ credit – 1 semester

This course stresses the maintenance, repair and reconditioning of common machinery and power units. After reviewing safety policies and procedures, students will be introduced to hydraulics, engines and power units. Students must have completed 8051 and Small Gas Engines (8014). Teacher permission is required for this course.

#### **(8017) Advanced Agriculture Mechanics**

Grades 10 – 12

½ credit – 1 semester

After reviewing safety policies and procedures, students will be permitted to work on individual projects for the remainder of the course with individual and group instruction on the hydraulic press, hydraulic pipe bender and Torchmate CNC plasma cutter interspersed throughout the semester. For students who have had Basic Welding, advanced welding procedures will also be taught on the TIG, MIG, Arc and Oxy Acetylene units. Problem solving and advanced planning on individual projects is expected. *Students may take this course more than once and receive credit.* Students must have completed 8051 and either Small Basic Welding (8013) or Small Gas Engines (8014). Teacher permission is required for this course.

#### **(8021) Crop and Soil Science (\*Sci)**

Grades 10 – 12

½ credit – A/B Day

This course is designed to teach the basics of soil science and agronomic crop production. The fundamentals of soil science will be covered before advancing to topics on growing agronomic crops common to Pennsylvania. Computerized soil mapping using Geographic Information Systems (GIS) will be covered. Must have completed 8053

## AGRICULTURE AND NATURAL RESOURCES COURSE OFFERINGS

### **(8022) Forestry**

Grades 10 – 12

½ credit – 1 semester

Students will cover topics such as tree biology, woodland management, tree identification, forest products, land use, and chain saw safety and maintenance. Must have completed 8053

### **(8023) Wildlife Management and Conservation**

Grades 10 – 12

½ credit – 1 semester

This course covers wildlife management principles as they relate to Pennsylvania's wildlife resources. Wildlife identification, population control, and habitat improvement will be covered time permitting, aquatics will also be introduced. Must have completed 8053

### **(8031) Advanced Horticulture**

Grades 10 – 12

½ credit – A/B Day

Horticulture is defined as the science and art of growing fruits, vegetables, flowers, or ornamental plants. This course will include instruction in all these areas. A key requirement of this course is the planning and implementation of a real-world, personalized student project. Must have completed 8053

### **(8032) Greenhouse Production and Management**

Grades 10 – 12

½ credit – A/B Day

Greenhouse structures, equipment, controls and management will be covered, as well as material on plant propagation and care. Students will gain extensive experience in vegetable and flower bedding plant production. Must have completed 8053

### **(8033) Dairy and Livestock Production and Management (OFFERED 2019-2020)**

Grades 10 – 12

½ credit – 1 semester

Dairy and Livestock Production and Management will be taught in school years beginning with an odd number.

This course is designed for both farm and non-farm students with an interest in livestock production. Feeding, genetics, reproduction, health care, and economics will be stressed. Must have completed 8053

### **(8034) Equine Management (NOT OFFERED 2019-2020)**

Grades 10 – 12

½ credit – 1 semester

Equine Management will be taught in school years beginning with an even number.

Basic horsemanship will be covered, including: breed identification, selection, breeding, feeding, health, housing, training and tack. Must have completed 8053

### **(8035) Animal Science (\*Sci)**

Grades 10 – 12

½ credit – 1 semester

This course covers veterinary science and applications of basic animal-care principles and practices. Emphasis will be placed on the cause, diagnosis, treatment and prevention of animal health problems. Health care programs will be developed for pets and livestock. Must have completed 8053

## AGRICULTURE AND NATURAL RESOURCES COURSE OFFERINGS

### **(8036) Meat and Food Technology**

Grades 10 – 12

½ credit – 1 semester

This course begins with an exploration of the U.S. and global food industry, and advances into topics relating science to the production and processing of foods. Many hands-on activities allow students to process and preserve a variety of common foods. Meat processing and carcass evaluation is covered also. Must have completed 8053

### **(8041) Supervised Agriculture Experience Project (SAE)**

Grades 10 – 12

½ credit – A or B Days

### **(8042) Supervised Agriculture Experience Project (SAE)**

Grades 10 – 12

½ credit - 1 semester

### **(8043) Supervised Agriculture Experience Project (SAE)**

Grades 10 – 12

1 credit - full year

You must obtain prior written permission from either Mr. Maurer or Mr. Dietrich to be enrolled in this SAE. This requirement will be strictly enforced. Must have completed 8040 and either 8051 or 8053.

SAE is designed to supplement other agriculture education coursework. Students must identify a specific project or personal interest before enrolling in SAE, and they must be willing and able to work independently. A web-based record system (The Agricultural Experience Tracker – AET) is used to monitor, document, and grade student performance.

### **(8113) Advanced Welding**

Grades 11 – 12

½ credit – 1 semester

Students must previously have had the Basic Welding course. Students will begin with a review of both Electric Arc and Oxyacetylene safety procedures. Position welding techniques will be taught with an emphasis on vertical, horizontal, overhead and other “out of position” welding. Plasma Cutting, TIG Welding, MIG Welding, along with computer aided plasma cutting, will also be included. Different alloys of metals will also be covered and welded, and a variety of specialized electrodes will be introduced. Must have completed 8051 and 8013

## AFTERNOON AGRICULTURE PROGRAM

At the request of consortium schools, UDA High School created an afternoon agriculture program intended for consortium students. The program is also open to resident nonpublic school students. All outside students must apply to the program according to the administrative regulation. **Applicants should have a demonstrated interest in vocational agriculture and not apply simply to fill their schedules.**

**Students are required to take the following classes:**

Introduction to Agriculture and Natural Resources, ½ credit, Semester 1 only

Introduction to Environmental Science and Agriculture Mechanics, ½ credit, full year

Introduction to Animal, Plant, and Soil Science, ½ credit, full year

Students then schedule classes according to availability. Students must take three full credits yearly.

As UDAHS enrolled resident students have first choice of courses, program seats are limited and dependent upon the UDAHS enrolled residents' course selection.

**Students applying to the program must do, and qualify, as follows:**

1. Have a demonstrated interest in vocational agriculture according to career interest surveys;
2. Obtain the prior written permission of the student's High School Principal to participate in the District's Vo-Ag Program;
3. Demonstrate successful completion of all academic course work that is prerequisite for a particular Vo-Ag Program offering;
4. Demonstrate that in the preceding academic semester/school year prior to the non-District high school student seeking to participate in the District's Vo-Ag Program that he/she obtained passing grades in all academic courses and maintained at least a 2.0 grade point average;
5. A non-District high school student will be deemed ineligible to participate in the Vo-Ag Program for any of the following reasons:
  - a. The student has a discipline record.
  - b. The student received an incomplete in two or more academic courses in the prior academic semester;
  - c. The student failed two or more academic courses in the prior academic semester; or
  - d. The student received an incomplete in one academic course and failing grade in another course in prior academic semester.



## AFTERNOON AGRICULTURE PROGRAM (CONTINUED)

### **Application should be made as follows:**

1. Students from schools outside the district or district residents attending nonpublic schools need to express their interest in attending UDAHS's afternoon vocational agriculture program by late February of the year prior to August admission and begin to collect their materials documenting their qualifications for admission. The student's admission packet must consist of:
  - a. Student's letter of application
  - b. Student's academic transcript
  - c. Student's resume, including activities which evince an interest in vocational agriculture
  - d. UDAHS Agriculture Department interest survey
  - e. Sending principal's letter of recommendation
2. Applications for admission should be received no later than July 1 of the year prior to August admission.
3. Due to late scheduling changes, UDAHS will not be able to guarantee students a place in the afternoon program until UDAHS guidance has gone through its conflict interviews with students wishing schedule changes. The first round of those interviews conclude prior to the start of school, meaning UDAHS and the district will not be able to positively verify that there will be seats for new students until the week of the start of school. I realize that is unfortunate, but we must accommodate resident students enrolled at UDAHS first.

If there are more applicants than seats, returning consortium and nonpublic school students will be seated first, according to their grades in UDAHS agriculture courses. For new students applying, open seats will be assigned to those with the greatest demonstrated interest in agriculture and the best academic qualifications.

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Project Partner: West Side CTC, Newark Consulting  
Funded by PA Department of Education, Bureau of  
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## BUILDING CONSTRUCTION TRADES COURSE OFFERINGS

The Building Construction Trades program is available to 10 – 12 grade students. Building Trades is offered to students interested in pursuing a career in one or more of the following areas:

- \*Masonry
- \*Carpentry
- \*Electrical
- \*Plumbing
- \*Painting or Decorating
- \*Other construction related industry

Building Trades has theory and lab work in the school building but spends the majority of time working on off-site projects. The program is also involved with the local home builders' association and the national home builders' association. Starting in 2019, Building Trades Program will have floor space provided at the Harrisburg Builders Show located at the Farm Show Complex.

Each program section will have maximum of ten seats available per year for returning and new students.

General requirements for entrance into or maintain eligibility for the program:

- Have minimal attendance concerns.
- Have minimal discipline issues.
- Be in good academic standing.
- **Provide the following basic hand tools:**  
Tool bag, 25' tape measure, Multi Bit Screw Driver, 16 or 20oz hammer, speed square, chalk line and chalk, utility knife, wonder bar, cats paw, and carpenters' pencils.

## BUILDING CONSTRUCTION TRADES COURSE OFFERINGS

### **(9010) Building Trades I (3 periods/day-am or pm)**

Grades 10 –11

3 credits – full year

Recommended Prerequisite: Basic Cabinet Making I.

Demonstrate safety rules for the construction trades, identify and demonstrate proper use of hand tools, identify and proper operations of portable power tools and equipment, introduction to local building codes and blue print reading, introduction to masonry trades, introduction to rough carpentry, introduction to simple electrical and plumbing systems. Use of knowledge and skills at the off-site project.

### **(9011) Building Trades II (3 periods/day-am or pm)**

Grades 11 – 12

3 credits – full year

Prerequisite: A '75%' or better in Building Trades I. Need BT instructor or administrator approval.

Review of construction site safety, review of usage of hand and power tools, review of building codes and blue print reading, assisting in preparing material list for off-site work or projects at the school. Be provided an in depth look at skilled trades, masonry, carpentry, electrical, plumbing, interior and exterior finishes. Building Trades II students will also be tasked with the design and construction of the display for the homebuilders show.

### **(9012) Building Trades III (3 periods/day-am or pm)**

Grade 12

3 credits – full year

Prerequisite: A '75%' or better in Building Trades II. Need BT Instructor or administrator approval.

This course continues to expand upon the concepts and skills learned in previous years. Students will be involved in the design concept of the off-site project. The advanced students will be given the opportunity to lead and assist in training teams on the building site. Students will be provided time to expand and focus their understanding and knowledge of a specific trade area.

## BUILDING CONSTRUCTION TRADES COURSE OFFERINGS

### Additional Industry Credentials and Opportunities for Students:

- Membership in the NAHB student chapter.
  - OSHA Ten Hour General Industry Safety Card.
  - Recognitions from Industry Suppliers.
  - Credentialing from the local Home Builders Association provided by local colleges.
  - Advanced career placements thru NAHB and local Home Builders Associations.
  - Assistants in obtaining construction industry scholarship funding provided only to construction industry students.
- ❖ With membership in the **NAHB** student chapter, students have opportunities to compete for prizes at state level chapter events. For students winning state level chapter events, the opportunity exists to move to national level competitions. Just for information, the next three years the national competition will be held in Las Vegas, Nevada.

**Please Note** - Students who complete at least 2 full years of the Building Trades Program by the end of their senior year, will qualify to take the NOCTI Exam in Construction Trades Technology. The Construction Trades Technology, NOCTI tests students in hands-on knowledge and skills required to lay out, fabricate rafters and wall systems, lay a masonry wall, and perform a given task for electrical and plumbing. The NOCTI has a written test that covers knowledge of framing, construction materials, blueprint reading, simple construction math, masonry terminology, electrical and plumbing theory and finish carpentry techniques.

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## DIVERSIFIED OCCUPATIONS



Brad Byle  
MI Windows and Doors, Hegin

### MANUFACTURING



WITH EXPERIENCE  
**\$25,870**



PROJECTED GROWTH  
**+7%**



EDUCATION  
HS Diploma or  
Equivalent



Faith Moore  
Molly's Paws Pet Grooming

### PET GROOMING



WITH EXPERIENCE  
**\$23,160**



PROJECTED GROWTH  
**+22%**



EDUCATION  
HS Diploma or  
Equivalent



Dakota Sims  
Swab Wagon Company

### WELDING & FABRICATION



WITH EXPERIENCE  
**\$40,240**



PROJECTED GROWTH  
**+26%**



EDUCATION  
HS Diploma or  
Equivalent

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## DIVERSIFIED OCCUPATIONS EDUCATION COURSE OFFERINGS

### **(9510) Diversified Occupations Education I**

Grade 12

1 credit – full year

This course deals with career exploration, acquisition, maintenance, advancement and entrepreneurship. It also deals with meeting adult responsibilities. This course is required for students simultaneously enrolled in Diversified Occupations II and Teacher Assistant: Elementary Experience.

### **(9520) Diversified Occupations Education II**

Grade 12

3 credits – full year

The D.O. II program includes placement of the student at a business and/or local establishment for on-the-job training for ½ of each school day. Training agreements are arranged between the employer-trainer, student-learner, parent, and the school. Students are placed on the job by the employer/trainer through the job search process. The job site will comply with all federal and state labor laws. The classroom part of the course includes work as it is related to the individual's job and other related outcomes from the student's working environment. A portfolio will be required for each student to log hours worked and outcomes achieved from a pre-approved job site. Ongoing visitations and/or career counseling will take place throughout the school year with the D.O. Coordinator. Pre-approval for job sites should take place before the start of one's senior year.

### **(9530) Career Exploration and Job Acquisition**

Grades 9 – 12

¼ credit – semester A/B day

This course is purposely intended for juniors interested in participating in "Co-op" (D.O. I and D.O. II) their senior year. It could also be useful for upper classmen who may benefit from teacher-directed, career-focused self-assessment and exploration. Students will have the opportunity to explore elements of job acquisition, including writing a resume, completing a job application, and participating in a job interview. For those juniors intending to move into Co-op their senior year, the course goal is to be accepted into the Cooperative Education program AND to have job prospects secured or a Co-op job in place.

### **(9540) Elementary Education Internship – (Academic Credit)**

Grade 12

3 credits – full year

Prerequisites: Students intending to be a Teacher Assistant in the elementary school must do the following:

- Obtain and provide current clearances and be approved by the UDASD School Board as a volunteer.
- Sign a confidentiality agreement and maintain confidentiality at all times.
- Starting with the Class of 2021, complete and pass the Child Development Course at Upper Dauphin Area High School prior to starting this course.
- Simultaneously enroll in the (9510) Diversified Occupations Education I course.

This daily class will include, but not be limited to, the following experiences and responsibility:

- Assisting individual and small groups of children with a variety of academic and social/emotional tasks (e.g. assisting during learning centers, practicing letter/word rings, etc.)
- Assisting the teacher with teaching tasks (e.g. leading calendar time, providing input for lesson planning, grading, etc.)
- Gaining experience working with children with a variety of learning, behavioral and social/emotional needs.
- Maintain passing grades in all coursework at the high school.
- Consistently show good attendance and communicate with their mentor/supervisor when they are not able to attend.

Number	Course ENGLISH	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
0209	Honors English I	1	X-(H)			
0309	Academic English I	1	X			
0210	Honors English II	1		X-(H)		
0310	Academic English II	1		X		
0111	Honors English III	1			X-(H)	
0311	Academic English III	1			X	
0112	Business English	1				X
PC0111	Penn College English Honors	1				X(H)
0412	AP English	1				X(AP)
0312	Academic English IV	1				X
0525	Keystone Literature Remediation	½		X	X	X
0530	Journalism	½ - 1	X	X	X	X
0709	Transitional English 9	1	X			
0710	Transitional English 10 (Keystone Lit)	1		X		
0711	Transitional English 11	1			X	
0712	Transitional English 12	1				X
0805	Functional English 9	1	X			
0806	Functional English 10	1		X		
0807	Functional English 11	1			X	
0808	Functional English 12	1				X
0901	Mythology	½	X	X	X	X
0905	Creative Writing	½	X	X	X	X

Number	Course MATHEMATICS	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
1313	Keystone Algebra 1 Remediation	½		X	X	
1017	Algebra IA	1	X	X		
1015	Basic Geometry	1			X	
1019	Algebra I-B	1		X	X	
4542	Consumer Mathematics	1				X
1013	Algebra I	1	X			
1014	Geometry	1	X	X	X	
1114	Honors Geometry	1	X-(H)	X-(H)	X-(H)	
1023	Academic Algebra II	1	X	X		
1123	Honors Algebra II	1	X-(H)	X-(H)		
1024	Precalculus	1		X	X	X
1224	Honors Precalculus	1		X-(H)	X-(H)	X-(H)
1118	Honors Calculus I	1			X-(H)	X-(H)
HU1220	Math 220 (Harrisburg Univ.)/AP Calculus II	1				X-(AP)
HU1120	Math 120 (Harrisburg Univ.)/College Algebra	1			X	X
1021	Statistics	1				X
1701	Transitional Math 9	1	X			
1705	Transitional Math 10	1		X		
1710	Transitional Math 11 (Keystone Algebra)	1			X	
1715	Transitional Math 12	1				X
1809	Functional Math 9	1	X			
1810	Functional Math 10	1		X		
1811	Functional Math 11	1			X	
1812	Functional Math 12	1				X



Number	Course	Credits	GRADE	GRADE	GRADE	GRADE
	<b>SCIENCE</b>		<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
2310	Earth Science	1	X	X	X	X
2920	Biology w/ Lab	1½	X			
2930	Honors Biology with Lab	1½	X-(H)			
2820	General Biology	1	X			
2990	Keystone Bio Remediation	½		X	X	
2330	College Prep Chemistry w/ Lab	1½		X	X	X
2450	Physical Science	1		X	X	X
2510	Anatomy & Physiology	1		X	X	X
2125	Advanced Placement Biology w/ Lab	1½			X-(AP)	X-(AP)
2340	College Prep Physics w/ Lab	1½			X	X
2116	Honors Advanced Chemistry	½			X-(H)	X-(H)
2530	Astronomy	½		X	X	X
2560	Environmental Science	½		X	X	X
2350	Honors Electricity & Magnetism	½			X-(H)	X-(H)
2360	Honors Waves, Sound & Optics	½			X-(H)	X-(H)
PC2200	HTH100: Introduction to Health Careers Penn College Dual Enrollment	½		X-(H)	X-(H)	X-(H)
PC2104	MTR104: Basics of Medical Terminology Penn College Dual Enrol.	½			X-(H)	X-(H)
PC2100	Penn College CHM100: Fundamentals of Chemistry Dual Enrollment	1 ½		X-(H)	X-(H)	X-(H)

Number	Course	Credits	GRADE	GRADE	GRADE	GRADE
	<b>SOCIAL STUDIES</b>		<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
3010	Modern World History	1	X			
3210	Honors Modern World History	1	X-(H)			
3227	Honors American History I	1		X-(H)		
3026	American History I	1		X		
3228	AP United States History	1			X-(AP)	
3028	American History II	1			X	
3043	Psychology	½			X	X
3042	Intro to Economics	½		X	X	X
3050	Freedom: Understanding the Nation	½			X	X
3305	College Prep Principals of Microeconomics	½			X	X
3315	College Prep Principles of Macroeconomics	½			X	X
3060	Local History	½		X	X	X
3070	U.S. Conflicts	½		X	X	X
7210	Honors Humanities 100 (NOT OFFERED in 2019-2020)	1			X-(H)	X-(H)
7220	Honors Humanities 101 (OFFERED in 2019-2020)	1			X-(H)	X-(H)

Number	Course	Credits	GRADE	GRADE	GRADE	GRADE
	<b>BUSINESS</b>		<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
4511	Accounting I	1		X	X	X
4513	Accounting II	1			X	X
4550	Principles of Marketing	½		X	X	X
4570	Sports Entertainment and Marketing	½		X	X	X
4580	Essential Skills in the Business World	½		X	X	X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
INFORMATION TECHNOLOGY DEPT						
6433	Computer Applications I	½	X	X	X	X
6434	Computer Applications II	½	X	X	X	X
6445	Computer Applications – Graphic and Technology Design	½	X	X	X	X
6438	CIS 105 (HACC Credit) Dual Enrollment	½			X-(H)	X-(H)
6450	Emerging Technologies: Web 2.0	½		X	X	X
6455	Video Production	½	X	X	X	X
6458	VPC Live: Trojan News	½		X	X	X
6478	Trojan Sports Network (TSN)	½	X	X	X	X
6479	Trojan Sports Network (TSN)	1	X	X	X	X
9605	Student Help Desk	1		X	X	X
9606	Student Help Desk	½		X	X	X
PC6150	BWM150: Introduction to Web Page Development Honors	1			X-(H)	X-(H)
PC6124	CSC124: Information, Technology and Society Honors	1		X-(H)	X-(H)	X-(H)
PC6105	Penn College MGT105: Introduction to Business Honors	½		X-(H)	X-(H)	X-(H)

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
WORLD LANGUAGE						
5021	French I - Online	1	X			
5022	French II - Online	1		X		
5023	French III - Online	1			X	
5224	Honors French IV - Online	1				X-(H)
5031	Spanish I	1	X			
5032	Spanish II	1		X		
5033	Spanish III	1			X	
5234	Honors Spanish IV	1				X-(H)
5250	Independent Spanish V	1				X-(H)
5041	German I – Online	1	X			
5042	German II - Online	1		X		

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
BUILDING TRADES						
9010	Building Trades I	3		X	X	
9011	Building Trades II	3			X	X
9012	Building Trades III	3				X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
DIVERSIFIED OCCUPATIONS						
9510	Diversified Occupations I	1				X
9520	Diversified Occupations II	3				X
9530	Career Exploration & Job Acquisition	¼	X	X	X	X
9540	Elementary Education Internship	3				X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
PHYSICAL EDUCATION/HEALTH						
9091	Freshmen Health	½	X			
9092	Freshmen Physical Education	½	X			
9101	Sophomore Health	½		X		
9102	Sophomore Physical Education	½		X		
9111	Junior Wellness	½			X	
9150	Strength and Conditioning	½	X	X	X	X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
FAMILY/CONSUMER SCIENCE						
9210	Nutrition and You	½	X	X	X	X
9220	Foods and You	½		X	X	X
9240	L.I.F.E	½		X	X	X
9270	Child Development	½			X	X
9416	Consumer Strategies	½	X			
PC9118	Penn College FHD118 Sanitation	½		X	X	X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
INDUSTRIAL ARTS						
8011	Basic Cabinetmaking I	½	X	X	X	X
8311	Basic Cabinetmaking II	1		X	X	X
8411	Advanced Cabinetmaking	1			X	X
9310	Basic Drafting I	½	X	X	X	X
9315	Basic Drafting II	½	X	X	X	X
9316	Basic AutoCAD	½		X	X	X
9317	Advanced AutoCAD	½		X	X	X
9318	Architectural Drafting	1			X	X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
ART						
7830	Studio (A/B)	½	X	X	X	X
7831	Studio Art (Sem)	½	X	X	X	X
7832	Studio Art (Full credit)	1	X	X	X	X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
MUSIC						
7916	Foundations of Music Theory	½		X	X	X
7918	Honors Advanced Music Theory	½			X-(H)	X-(H)
7900	Choir Ensemble	½	X	X	X	X
7920	Piano/Keyboarding I	½	X	X	X	X
7921	Piano/Keyboarding II	½		X	X	X
7922	Piano/Keyboarding III	½			X	X
7923	Piano/Keyboarding IV	½				X
7902	Concert Band	½	X	X	X	X
7909	Instrumental Musicianship	½	X	X	X	X
7940	Music Technology (NOT OFFERED 2019-2020)	½	X	X	X	X
7980	Music Appreciation	½	X	X	X	X
7950	Advanced Instrumental Music Study	½		X	X	X
7952	Instrumental Music Study	½	X	X	X	X
7990	Broadway Musical Productions	½	X	X	X	X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>STUDENT ASSISTANTS</b>						
9600	Teacher Assistant	1	X	X	X	X
9601	Teacher Assistant	½	X	X	X	X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>STUDENT SERVICES</b> (Only students with an IEP may take these courses)						
9750	Resource		X	X	X	X
9751	Resource		X	X	X	X
9752	Resource		X	X	X	X

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12
<b>AGRICULTURE AND NATURAL RESOURCES</b>						
8040	Foundations in Agriculture & Natural Resources	½	X			
8051	Intro to Agricultural Mechanics & Technology (*Sci)	½	X	X		
8053	Intro to Animal, Plant and Soil Science (*Sci)	½	X	X		
8013	Basic Welding	½	X	X	X	X
8014	Small Gas Engines	½		X	X	X
8016	Engine & Machine Technology	½		X	X	X
8017	Advanced Agriculture Mechanics	½		X	X	X
8021	Crop and Soil Science (*Sci)	½		X	X	X
8022	Forestry	½		X	X	X
8023	Wildlife Mgt. & Conservation	½		X	X	X
8031	Advanced Horticulture	½		X	X	X
8032	Greenhouse Production & Management	½		X	X	X
8033	Dairy and Livestock Production & Mgt. (Offered 2019-2020)	½		X	X	X
8034	Equine Management (NOT Offered 2019-2020)	½		X	X	X
8035	Animal Science (*Sci)	½		X	X	X
8036	Meat & Food	½		X	X	X
8041	Supervised Agriculture Experience (A/B)	½		X	X	X
8042	Supervised Agriculture Experience (sem)	½		X	X	X
8043	Supervised Agriculture Experience	1		X	X	X
8113	Advanced Welding	½			X	X