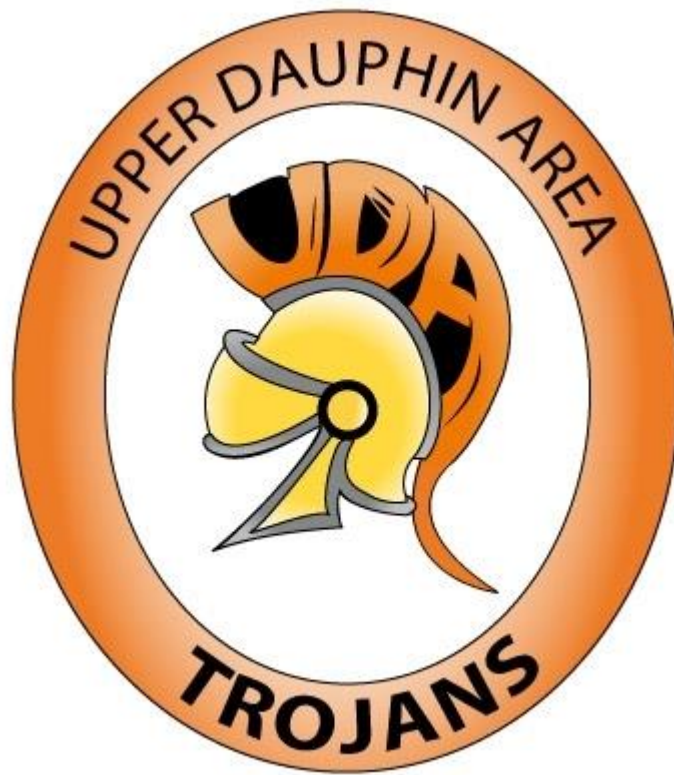


**UPPER DAUPHIN AREA
HIGH SCHOOL
PROGRAM**



**OF STUDIES
2017 – 2018**

UPPER DAUPHIN AREA HIGH SCHOOL

2017-2018

PROGRAM OF STUDIES

Board of School Directors

Mr. David Barder, President
Mr. Mills Eure, Vice President
Rev. Nathan Minnich
Mrs. Angela Mattern
Mrs. Roni Mace
Mrs. Kathryn Talhelm
Mr. Jack Laudenslager
Mr. Steve Welker
Mr. Kirk Wenrich

Administration

Mr. Evan P. Williams, Superintendent
Mr. Matthew F. Schwenk, High School Principal



UPPER DAUPHIN AREA HIGH SCHOOL

220 North Church Street
Elizabethville, PA 17023
PH (717) 362-8181
FAX (717) 362-8088

Matthew F. Schwenk
Principal

Brent E. Bell
Athletic Director

Lora Nestor
Counselor

Amy Heinbach
Counselor

Dear Upper Dauphin Area High School Students/Parents/Guardians,

Course selection is a critical step in our efforts to develop college, career, and workforce ready students and promote the success of our graduates. The 2017-18 Program of Studies serves as a guide and has been collaboratively prepared by the High School administration, faculty, and guidance staff. It initiates the plan for students to achieve their future goals and can be found under the High School tab of our District website. Hard copies are also available in the High School Office.

We encourage you to review this guide carefully and make informed decisions. Students, parents, teachers, guidance counselors, and administration share collective responsibility for schedule approval.

It is our hope that you will take full advantage of our class offerings to maximize your potential and achieve your goals. The courses you select and how well you master them may well determine your future success. If you have questions or concerns, please contact the High School Guidance Office.

Sincerely,

Matthew F. Schwenk,
High School Principal

TABLE OF CONTENTS

	Page
Student Record Sheet	1
Nondiscrimination Policy	2
Guidance Counselor Role(s)	2
Scheduling Procedures	3
Administration/Faculty/Staff	4
General Information	
Grading	5
Credits	6
Class Rank/GPA	7
Dual Enrollment	9
Graduation Requirements	11
Course Descriptions	
English	13
Mathematics	16
Science	20
Social Studies	24
Business.	29
Information Technology	30
World Languages	33
Building Trades	36
Diversified Occupations	37
Wellness/Physical Education Electives	38
Family / Consumer Sciences	39
Industrial Arts	41
Art Department	42
Music Department	44
Agriculture and Natural Resources	46
Student Services	50
Driver Education	50
Listing of Course Selections	

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

<u>Grade 9</u>			<u>Grade 10</u>		
<u>Course</u>	<u>Grade</u>	<u>Credit</u>	<u>Course</u>	<u>Grade</u>	<u>Credit</u>
English I	_____	1	English II	_____	1
Math	_____	1	Math	_____	1
Science - Biology	_____	1.5	Science	_____	1
Modern World History	_____	1	American History I	_____	1
Wellness	_____	1	Wellness	_____	1
Electives	_____	<u>2.5</u>			
	_____		Electives	_____	
Maximum Credits	_____	= 8	Maximum Credits	_____	= <u>3.00</u> 8

<u>Grade 11</u>			<u>Grade 12</u>		
<u>Course</u>	<u>Grade</u>	<u>Credit</u>	<u>Course</u>	<u>Grade</u>	<u>Credit</u>
English III	_____	1	English IV	_____	1
Math	_____	1	Social Studies	_____	1
	_____		Elective	_____	
Science	_____	1	Math	_____	1
American History II	_____	1	Electives	_____	<u>5</u>
Wellness	_____	.50	Maximum Credits	_____	= 8
Essential Skills in the	_____	.50			
Business World	_____				
Electives	_____	<u>3.00</u>			
Maximum Credits	_____	= 8			

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 usable 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 Mary Bateman (362-6547) (Title IX Coordinator) for information at the same address.

The Federal Drug-Free Workplace Act requires that our workplace be totally free of the 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 any 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 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 school 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 courses 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 24 credits).
2. Review the recommended sequence of courses for each of the programs as listed in the following pages.
3. Carefully read the course descriptions as listed on 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 guidance 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 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 courses 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 sizes, teacher assignments, high school staffing and budget expenditures are made on the basis of student selections during the scheduling process.

Parents 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.

HIGH SCHOOL FACULTY AND STAFF

Todd Ayers	Science
Ruthanna Bordner	PCA Personal Care Assistant
Bryan Buddock	Industrial Arts
Katie Burian	Family & Consumer Science/Mathematics
Shelli Casner	Business/Computer
Elaine Cramer	Instrumental Music, Humanities/Vocal Music
Janet Denlinger	Library
Mark Dietrich	Agri-Science
Amber Dorman	English/German/French
Fran Eure	Inclusion Support Aide
Eric Fite	English
Russ Gavalis	Mathematics
Amy Gehring	Cooperative Education/Special Education
Clint Gehring	Special Education
Bridget Glunz-Wenner	Life Skills Support Teacher
Heather Haupt	Student Services Director
Jesse Heath	Science/Mathematics
Amy Heinbach	Counselor
Craig Henninger	Social Studies
Jan Hoffner	Mathematics
Lora Kerwin	English
Elizabeth Kopp	Life Skills Support Aide
Beverly Koppenhaver	PCA Personal Care Assistant
Scott Kreiser	Building Trades
Dana Lomma	Spanish
Roy Maurer	Agri-Science
Robert Miller	Art, Humanities
Cynthia Minnich	English
Lora Nestor	Counselor
Jackie O'Neill	Inclusion Support Aide
Chris Paul	Inclusion Support Aide
Jane Pianovich	Nurse
Emily Renn	Mathematics
Brooke Runkle	Special Education Teacher
Todd Rupp	Business/Computer
Matthew Schwenk	High School Principal
Jeffrey Seiler	Social Studies
Elijah Shutt	Social Studies
Joann Sites	Health, Wellness
Todd Smeltz	Science/Mathematics
Vicky Smith	Science
Rosane Straub	PCA Personal Care Assistant
Anthony Weaver	Health, Wellness
Diane Wolfgang	Inclusion Support Aide

GENERAL INFORMATION

GRADING

The grading system used at Upper Dauphin Area High School is outlined below:

Percentage	Letter Grade	GPA Course Points
99 – 100	A+	4.00
95 – 98	A	4.00
93 – 94	A-	3.67
91 – 92	B+	3.33
87 – 90	B	3.00
85 – 86	B-	2.67
83 – 84	C+	2.33
77 – 82	C	2.00
75 – 76	C-	1.67
73 – 74	D+	1.33
67 – 72	D	1.00
65 – 66	D-	0.67
0 – 64	F	0.00
Incomplete - Used when a student has not completed work	*I	0.00
Passing	*P	
Failing	*F	

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

*Under certain circumstances and conditions Pass/Fail may be used.

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. (See Special note under Class Rank).

Course credit value is assigned as follows:

- 1 Credit Courses: Course has 180 student-teacher contact periods scheduled.
- 1/2 Credit Courses: Course has at least 90 student-teacher contact periods scheduled.
- 1/4 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. 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 academic intervention and support growth and achievement.

GRADUATION PROJECTS

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

The purpose of the projects is to give students an opportunity to apply, analyze, synthesize and evaluate information and communicate significant knowledge and understanding. At UDA these projects are career-related and include research, a presentation, resume writing, and an interview.

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.

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, ½ credit, or ¼ 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. ‘A’ grade lower than a B – (85) will not be weighted.

Letter Grade	Regular Course	Dual Enrollment	Honors Course	AP Course
A+	4.00	4.25	4.50	5.00
A	4.00	4.25	4.50	5.00
A-	3.67	3.92	4.17	4.67
B+	3.33	3.58	3.83	4.33
B	3.00	3.25	3.50	4.00
B-	2.67	2.92	3.17	3.67
C+	2.33	2.33	2.33	2.33
C	2.00	2.00	2.00	2.00
C-	1.67	1.67	1.67	1.67
D+	1.33	1.33	1.33	1.33
D	1.00	1.00	1.00	1.00
D-	0.67	0.67	0.67	0.67
F	0.00	0.00	0.00	0.00
I - Used when a student has not completed work	0.00	0.00	0.00	0.00

EXAMPLE

<u>Subject</u>	<u>Grade</u>		<u>Credits</u>		<u>Quality Points</u>
Honors English 11	A = 4.5	X	1.0	=	4.50
CP Chem/Lab	B = 3	X	1.5	=	4.50
AP US History	B- = 3.67	X	1.0	=	3.67
Wellness 11	B- = 2.67	X	.5	=	1.34
Advanced Foods	A = 4	X	.5	=	2.00
Spanish III	C+ = 2.33	X	1.0	=	2.33
Art	F = 0	X	1.0	=	0.0
Intro to BusMGT	A- = 3.92	X	.5	=	1.96
105					
			7.0		20.30

Grade point average = 20.30 Quality Points divided by 7 credits attempted = 2.90 grade point average.

CLASS RANK

Class rank is determined by multiplying GPA by credits earned.

Please note that any pass/fail classes are omitted in the GPA calculation but included in the multiplication of quality points for class rank.

BELOW ARE EXAMPLES DESIGNED TO ILLUSTRATE THE EFFECT ON GRADE POINT AVERAGE

Example #1 - No Honors Courses

<u>Subject</u>	<u>Grade</u>		<u>Credits</u>		<u>Quality Points</u>
Acad. English IV (12)	A+ = 4	x	1	=	4
Statistics	A = 4	x	1	=	4
CP Physics & Lab	B = 3	x	1.5	=	4.5
Freedom	B+ = 3.33	x	.5	=	1.67
Intro to Econ	A = 4	x	.5	=	2
Art	A- = 3.67	x	.5	=	1.84
Spanish II	B = 3	x	1	=	3
Greenhouse	A = 4	x	.5	=	2
Video Prod	B = 3	x	.5	=	1.5
Music Tech	A = 4	x	.5	=	2
			<u>7.5</u>		<u>26.51</u>

Grade Point Calculation = 26.51 Quality Points divided by 7.5 credits attempted = 3.53 grade point average.

Example #2 – taking a Dual Enrollment Course

<u>Subject</u>	<u>Grade</u>		<u>Credits</u>		<u>Quality Points</u>
Acad. English IV (12)	A+ = 4	x	1	=	4
Statistics	A = 4	x	1	=	4
CP Physics & Lab	B = 3	x	1.5	=	4.5
Freedom	B+ = 3.33	x	.5	=	1.67
Intro to Econ	A = 4	x	.5	=	2
Art	A- = 3.67	x	.5	=	1.84
Spanish II	B = 3	x	1	=	3
Culinary Arts (Penn)	A = 4.25	x	.5	=	2.13
Video Prod	B = 3	x	.5	=	1.5
Music Tech	A = 4	x	.5	=	2
			<u>7.5</u>		<u>26.64</u>

Grade Point Calculation = 26.64 Quality Points divided by 7.5 credits attempted = 3.55 grade point average.

Example #3 – taking an Honors Course

<u>Subject</u>	<u>Grade</u>		<u>Credits</u>		<u>Quality Points</u>
Acad. English IV (12)	A+ = 4	x	1	=	4
Honors Calculus I	A = 4.5	x	1	=	4.5
CP Physics & Lab	B = 3	x	1.5	=	4.5
Freedom	B+ = 3.33	x	.5	=	1.67
Intro to Econ	A = 4	x	.5	=	2
Art	A- = 3.67	x	.5	=	1.84
Spanish II	B = 3	x	1	=	3
Greenhouse	A = 4	x	.5	=	2
Video Prod	B = 3	x	.5	=	1.5
Music Tech	A = 4	x	.5	=	2
			<u>7.5</u>		<u>27.01</u>

Grade Point Calculation = 27.01 Quality Points divided by 7.5 credits attempted = 3.60 grade point average.

Example #4 – taking an AP course

<u>Subject</u>	<u>Grade</u>		<u>Credits</u>		<u>Quality Points</u>
Acad. English IV (12)	A+ = 4	x	1	=	4
Honors AP Calc II	A = 5	x	1	=	5
CP Physics & Lab	B = 3	x	1.5	=	4.5
Freedom	B+ = 3.33	x	.5	=	1.67
Intro to Econ	A = 4	x	.5	=	2
Art	A- = 3.67	x	.5	=	1.84
Spanish III	B = 3	x	1	=	3
Greenhouse	A = 4	x	.5	=	2
Video Prod	B = 3	x	.5	=	1.5
Music Tech	A = 4	x	.5	=	2
			7.5		27.51

Grade Point Calculation = 27.51 Quality Points divided by 7.5 credits attempted = 3.67 grade point average.

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 must also receive a recommendation from the school counselor and principal to participate in a dual enrollment course.

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 GPA calculations. No student is permitted to receive more than 8 credits in a school year.

STUDENTS ARE RESPONSIBLE FOR ALL TUITION COSTS, BOOKS AND FEES THAT ARE CHARGED BY THE COLLEGE OR UNIVERSITY.

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.

Penn College Dual Enrollment Program
10th-12th Grade Students

****Please note: These potential Penn College Courses are not guaranteed to be offered. Penn College and the UDA school District will continue the evaluation and feasibility to offer these courses. Final selection of approved courses will be determined in Spring 2017.****

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 courses as dual enrollment according to the chart on page 8 unless otherwise noted below.

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. The placement exam will be administered at the high school in spring 2017.

These courses are approved by Penn College for students in grades 10-12 who meet the placement criteria:

Culinary Arts FHD 118 Sanitation (1 Penn College credits, .5 high school credit) – Taught by Mrs. Burian,
Information, Technology and Society CSC 124 (NOT OFFERED 2017-2018)(3 college credits, .5 high school credit) -
Mrs. Casner
Introduction to Health Careers HTH 100 (2 college credits, .5 high school credit) - Mr. Ayers

These courses are approved by Penn College for students in grades 11-12 who meet the placement criteria:

*Chemistry CHM 100 (NOT OFFERED 2017-2018)(4 college credits, 1.5 high school credits) - Mr. Smeltz
Introduction to Web Page Development BWM 150 (3 credits, .5 high school credit) – Mr. Rupp
Early Childhood Development EDU 100 (3 college credits, .5 high school credit) – Mrs. Burian
Introduction to Business MGT 105(3 college credits, .5 high school credit) - Mrs. Casner
*Psychology 111 (3 college credits, .5 high school credit) – Mr. Seiler
Basics of Medical Terminology MTR 104 (3 college credits, .5 high school credit) - Mr. Ayers

This course is only approved for students in 12th grade who meet the placement criteria:

*English 111 (3 college credits, 1 high school credit) – Mrs. Minnich

***= will receive honors weight (.5) per the chart on page 8**

Dual Enrollment with HACC

Juniors and seniors may take these courses with HACC and receive high school dual enrollment credit. Students are fully responsible for the tuition of \$300 for a 3 credit college class and the cost of textbooks. Students must work with their school counselor to register for courses. Placement exams may be required as per HACC. HACC courses will be weighted as dual enrollment. See page 8

History 107 – (3 college credits, .5 high school credit) – Mr. Seiler (Tuition=\$150)

CIS 105 – (3 college credits, .5 high school credit) – Mrs. Casner (Tuition=\$150)

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-four (24) credits in grades nine through twelve which must include the following:

Subject Area

English	4	credits
Mathematics	4	credits
Science	3	credits
Social Studies	4	credits
Wellness	2.50	credits
Electives	6.50	credits

TOTAL 24 credits

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

- 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

Keystone remediation course modules may be assigned for students who do not achieve proficiency on Keystone exams. Students may be required to retest in the areas of Algebra, Literature and Biology.

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 (no 'B's).

Honor Roll: Grades All 'A's and 'B's (no 'C's or lower).

GRADUATION WITH HONORS

For the class of 2018, overall graduation with honors is attained when a student earns a cumulative (weighted) GPA of at least 3.25 or higher. In addition, National Honor Society members are recognized at graduation by maintaining the following cumulative (weighted) GPAs:

Class of 2018 = 3.25

Class of 2019 and Beyond = 3.50

HONORS AND ADVANCED PLACEMENT COURSES

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

English: Honors English 9
Honors English 10
Honors English 11
AP English 12 – AP Test strongly encouraged

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 - Grade 9 - 10
Honors Geometry- Grade 9 - 10
Honors Precalculus - Grade 10 - 12
Honors Calculus I - Grade 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.

Social Studies: Honors Modern World History- Grade 9
Honors American History I - Grade 10
AP American US History - Grade 11 – AP Test strongly encouraged
Honors Humanities 100 – Grade 11 & 12
Honors HUM 101 Modern Culture and the Arts – Grade 12

Science: Biology - Grade 9
College Prep Chemistry - Grade 10
College Prep Physics - Grade 11
Honors AP Biology - Grade 12 – AP Test strongly encouraged
Honors Electricity & Magnetism – Grade 11 – 12
Honors Waves, Sound & Optics – Grade 11 - 12
Honors Advanced Chemistry - Grade 12

World Languages:

Fourth-year study of world languages will remain honors courses.

Humanities:

Honors Humanities 100 and 101 are offered on a sequential basis.

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

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:

1. Teacher recommendation
2. Summer assignment due on the first day of school

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

Prerequisite: 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.

(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.

ENGLISH DEPARTMENT COURSE OFFERINGS

(0111) Honors English III

Grade 11

1 credit - full year

Prerequisite: 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.

(PC0111) Penn College English Honors

(Penn College) – see dual enrollment pages 9-10 if approved

Grade 12

1 credit - full year

3 college credits

Prerequisite: 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.

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

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.

ENGLISH DEPARTMENT COURSE OFFERINGS

(0525) Keystone Literature Remediation

Grades 11 ½ credit – 1st semester only

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.

(0530) Journalism

Grades 9 – 12

½ - 1 credit

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.

(0709) Transitional English 9

Grades 9

1 credit

(0710) Transitional English 10

Grades 10

1 credit

(0711) Transitional English 11 (Keystone Literature)

Grades 11

1 credit

(0712) Transitional English 12

Grades 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.

(0805) Functional English 9

Grades 9

1 credit

(0806) Functional English 10

Grades 10

1 credit

(0807) Functional English 11

Grades 11

1 credit

(0808) Functional English 12

Grades 12

1 credit

Prerequisite: Prior approval is required.

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

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 8th 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 8th 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 and is designed to prepare students for more advanced courses in mathematics. Completion of the Algebra IA/Algebra IB sequence will prepare students to take the Keystone Algebra I exam at the end of Algebra IB. This course includes the study of real number operations and applications, polynomials and rational expressions, systems of equations and inequalities, and statistical displays. **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 assessed on the Keystone Algebra I and 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.**

(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 and on the Pennsylvania Keystone Algebra I exam. The course content includes solving equations and inequalities, proportions, solving and graphing linear equations, solving systems of equations, exponents, operations with polynomials, factoring, and radical and rational expressions. **A scientific calculator is required for this course.**

MATHEMATICS DEPARTMENT COURSE OFFERINGS

(1323) Keystone Algebra II

Grade 10 - 11

1 credit – full year

Prerequisite: A score between 1475 and 1499 on the Keystone Algebra I exam **and** a passing final grade in Algebra I with teacher signature

This course is designed for students who, based on their score on the Keystone Algebra I exam, require remediation on Algebra I topics before moving on to the study of Algebra II. Students in this course will spend the first half of the year reviewing Algebra I topics such as real number operations, linear equations and inequalities, and probability and statistics. The second half of the course will focus on an introduction to Algebra II topics, including but not limited to imaginary numbers, quadratics functions, and systems of equations with three variables.

A scientific calculator is required for this course.

(1023) Academic Algebra II

Grades 9 –10

1 credit - full year

Prerequisite: A score of Proficient or Advanced on the Keystone Algebra 1 exam and 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. Higher level algebraic topics are included as required by the Pennsylvania core standards. Topics include quadratic functions, polynomials, radical and rational functions, probability and statistics, and an introduction to trigonometry. **A scientific calculator is required for this course.**

Note: Geometry or Honors Geometry and Academic Algebra II may be taken concurrently with teacher signature and a score of Proficient or Advanced on the Algebra 1 Keystone exam.

(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 assessed on the Keystone Algebra I exam and 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 and a score of Proficient or Advanced on the Algebra 1 Keystone exam.

(1024) Precalculus

Grades 10 - 12

1 credit – full year

Prerequisite: A final grade of 'C' or better in both Academic Algebra II and Geometry with teacher signature and a score of Proficient or Advanced on the Algebra 1 Keystone exam.

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.

(1224) Honors Precalculus

Grades 10 – 12

1 credit - full year

Prerequisite: A final grade of 'A' or better in Honors Algebra II and Honors Geometry with teacher signature AND a score of proficient or advanced score on the Keystone Algebra I exam.

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.

MATHEMATICS DEPARTMENT COURSE OFFERINGS

(1118) Honors Calculus I

Grades 11 – 12

1 credit – full year

Prerequisite: A final grade of 'B' or better in Honors Precalculus with teacher signature AND a score of proficient or advanced on the Keystone Algebra I exam.

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, but are not limited to, limits, rates of change, differentiation, related rates, optimization, curve sketching, and techniques of integration and Area under a curve.

A scientific calculator is required for this course.

(1218) AP Calculus II

Grade 12

1 credit – full year

Prerequisite: A final grade of 'B' or better in Calculus I with teacher signature AND a score of proficient or advanced on the Keystone Algebra I exam.

This course is intended for the accelerated mathematics student and may only be taken with prior approval of the instructor. ***Students who take this course are strongly encouraged to take the AP Calculus test.*** This course is designed for prospective college mathematics majors, as well as those students whose primary interests are in engineering, physics or other sciences. It includes topics normally taught in the second semester of a three-semester calculus sequence at the college level in addition to a review of all the Calculus I content and focused preparation for the AP Exam. Topics include, but are not limited to, advanced differentiation and integration techniques and applications, differential equations, volumes of solids and advanced applications of definite integrals.

A graphing calculator is required for this course.

(1021) Statistics

Grade 12

1 credit – full year

Prerequisite: A final grade of 'C' or better in Academic 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.

(1114) Honors Geometry

Grades 9 – 11

1 credit

Prerequisite: A grade of 'A' in Honors Algebra II or Algebra I (if doubling with Honors Algebra II) with teacher signature AND a proficient or advanced score on the Keystone Algebra I exam.

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 and a score of Proficient or Advanced on the Algebra 1 Keystone Exam.

MATHEMATICS DEPARTMENT COURSE OFFERINGS

(1123) Honors Algebra II

Grades 9 - 10

1 credit

Prerequisite: A grade of 'A' in Algebra I with teacher signature AND a proficient or advanced score on the Keystone Algebra I exam.

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's curriculum is derived from the Pennsylvania State Common Core standards for Algebra II. This course moves at a faster pace and examines some topics in greater detail than the traditional Algebra II class with 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, and logarithmic functions, with some emphasis also on probability and statistics. **A scientific calculator is required for this course.**

Note: Honors Geometry or Geometry and Honors Algebra II may be taken concurrently with teacher signature and a score of Proficient or Advanced on the Algebra 1 Keystone Exam.

(1701) Transitional Math 9

Grades 9

1 credit

(1705) Transitional Math 10

Grades 10

1 credit

(1710) Transitional Math 11 (Keystone Algebra)

Grades 11

1 credit

(1715) Transitional Math 12

Grades 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.

(1809) Functional Math 9

Grades 9

1 credit

(1810) Functional Math 10

Grades 10

1 credit

(1811) Functional Math 11

Grades 11

1 credit

(1812) Functional Math 12

Grades 12

1 credit

Prerequisite: Prior approval is required.

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

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 w/ Lab

Grade 9

1½ credits – full year

This course is designed to prepare 9th 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

Pre-requisites: An 'A' average in 7th & 8th grade science and Proficient or Advanced on the 8th 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 –2nd semester only

****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 credit - full year

Recommended Prerequisite: Successful completion of Biology and Algebra I. 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 credit - 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.

(2340) College Prep Physics & Lab

Grades 11 – 12 1½ credit - 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.

SCIENCE DEPARTMENT COURSE OFFERINGS

(2116) Honors Advanced Chemistry

Grades 11 – 12

½ credit

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

Grade 11 – 12

½ credit

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

Grade 11 – 12

½ credit

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.

(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.

SCIENCE DEPARTMENT COURSE OFFERINGS

(PC2100) CHM100- Introductory Chemistry (Honors) – Penn College (NOT OFFERED 2017-2018)

(Penn College) – see dual enrollment pages 9-10 if approved

Grade 11 - 12

1 ½ credits
4 college credits

Prerequisites: Successful Completion of Algebra I and Algebra II, or concurrently taking Algebra II. Students must purchase their own textbook and pass the required placement exam to enroll in the course.

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 those planning a career in a science or non-science major needing one term of chemistry or to satisfy a lab science requirement. Also appropriate for those who desire background before taking General Chemistry I at the college level. No prior knowledge of chemistry is assumed but some algebra skills are needed. 1.5 Credits (4 Credit Course through Penn College)

(PC2200) HTH100: Introduction to Health Careers

(Penn College) – see dual enrollment pages 9-10 if approved

Grade 10 - 12

½ credit
2 college credits

Prerequisites: 'B' or better in Anatomy and Biology, 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) MTR104: Basics of Medical Terminology

(Penn College) – see dual enrollment pages 9-10 if approved

Grade 11 – 12

½ credit
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.

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-15th 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

Prerequisite: 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.

In this intensive course, students will analyze major regions of the world and their contributions to shaping the modern world from mid-15th 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.

Completion of the summer reading assignment is required.

(3227) Honors American History I

Grade 10

1 credit - full year

Prerequisite: An 'A' or 'B' in previous Social Studies course plus teacher recommendation. Candidates may be required to submit a writing sample as well.

Honors American History I will cover American History during the time period of the Pre-Columbian Era 1491 through 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.

An 85% or above is necessary to receive honors credit for the course.

(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 the Industrialization. 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.

SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

(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

Prerequisite: 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.

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 10th 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.

(3028) American History II

Grade 11 1 credit - full year

The course covers the period from 1890 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 (College Prep)

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. Students may be eligible to take the AP Psychology exam in May.

(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.

SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

(3305) College Prep Principles of Microeconomics

Grade 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.

(3315) College Prep Principles of Macroeconomics

Grade 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.

SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

(7210) Honors Humanities 100 (NOT OFFERED in 2017-2018)

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 2017 - 2018)

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.

SOCIAL STUDIES DEPARTMENT COURSE OFFERINGS

Dual Enrollment Social Studies Course Listings

(3017) HIST 107: The US Since 1918

(HACC) – see dual enrollment pages 9-10 if approved

Grade 12

½ credit

3 college credits

Prerequisite: Open to Juniors or Seniors with a minimum 3.25 GPA and teacher recommendation

This college course is a survey of America's social, political, economic, and military experience since 1918, with emphasis on the Roaring Twenties, Great Depression, Roosevelt's New Deal, World War II, post-war problems, Cold War, Kennedy and Johnson, civil rights, Vietnam, Nixon and Watergate, and the Ford, Carter and Reagan presidencies.

(PC3111) Psychology 111: General Psychology (Honors Weighted)

(Penn College) – see dual enrollment pages 9-10 if approved

Grades 11 - 12

½ credit – 1 semester

3 college credits

Prerequisite: Open to Juniors or Seniors with a minimum 3.25 GPA teacher recommendation/passing the placement test

Introduction to the science of human behavior and mental processes. Students will examine the relation between the nervous system and behavior, learning, perception, language, personality, intelligence, and psychopathology.

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

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

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.

(4580) Essential Skills in the Business World

Grades 10 - 12 ½ credit

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.

INFORMATION TECHNOLOGY DEPARTMENT COURSE DESCRIPTIONS

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

Grades 9 – 12

½ credit

Requirement: This is a remediation course for ONLY those students who did not successfully complete Computer Applications I (8th 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

Prerequisite: Passed 8th 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

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

Prerequisite of Computer Applications II

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 DESCRIPTIONS

(6460) Intro Web Page Design

Grades 10 - 12 ½ credit – 1 semester

Prerequisite: Graphic and Technology Design

This semester course provides students with a major emphasis on the principles and design of a website. HTML, Web publishing and graphic editing software will be used to design, create, format and edit web pages. Student learners will be able to plan, design, build, promote and maintain a website. Students will learn web page layout, effective navigation and the proper design process of a web page. We examine some of the how-tos, ins, outs and pitfalls of using graphics, color and fonts on web pages as well as working with tables and CSS.

(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.

(6465) Website Design and Maintenance

Grades 10 - 12 ½ credit – 1 semester

Prerequisite: Intro to Web Page Design w a grade of 'B' or higher and **teacher permission**

This course introduces students to more advanced skills in web design and gives students real-life experience in web development. As a major part of this course, students will work on developing and maintaining organizational and activity web pages for UDAHS. Students will receive one-on-one training, as well as the opportunity to work with other students in a team environment. Upon completion, students should be able to employ advanced design techniques to create high-impact and highly functional web pages. Students are required to have Intro to Web Page Design, with a grade of a B or higher. Students will work independently as well as in a group. Students must be proficient in writing and must possess good communication skills. Interested students must be hard working and self-motivated. Student web pages created in this course will be published on the Internet. Completed web pages would require advisor/teacher/coach approval before uploading of pages.

INFORMATION TECHNOLOGY DEPARTMENT COURSE DESCRIPTIONS

Dual Enrollment Computer Course Listings

(6438) CIS 105

Grade 12

½ credit

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

Students must pass the required placement test for HACC in English, Reading, and Writing to be admitted into this course. This test will be given to students here at UDA.

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) BWM150: Introduction to Web Page Development

(Penn College) – see dual enrollment pages 9-10 if approved

Grade 11 - 12

½ credit

3 college credits

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

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) Prerequisite(s): Placement by Examination or MTH004 and Placement by Examination or RDG111

(PC6124) CSC124: Information, Technology, and Society (NOT OFFERED 2017-2018)

(Penn College) – see dual enrollment pages 9-10 if approved

Grade 10 - 12

½ credit

3 college credits

Prerequisite: Students must purchase their own textbook and pass the required 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

(PC6105) MGT105: Introduction to Business

(Penn College) – see dual enrollment pages 9-10 if approved

Grade 11 - 12

½ credit

3 college credits

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

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**

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

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

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.

(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.

WORLD LANGUAGE DEPARTMENT COURSE OFFERINGS

(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.

(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.

WORLD LANGUAGE DEPARTMENT COURSE OFFERINGS

(5043) German III

Grade 11

1 credit – full year

Prerequisite: German II

In German III, communication skills will be expanded. There will be greater emphasis on lengthy readings concerning events and interests integral to modern living in the various German-speaking countries. Related audio-lingual and grammatical concepts will be studied and writing will be stressed. Grades are derived from quizzes, tests, translations, and special projects.

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

(5244) German IV – Honors

Grade 12

1 credit – full year

Prerequisite: German III

German IV deals with more complicated grammatical and linguistical structures within the general framework of current social and cultural concerns in German-Speaking countries. Audio-lingual work will still be stressed but writing will be of even more importance. Grades are derived from quizzes, tests, translations, and special projects.

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

BUILDING CONSTRUCTION TRADES COURSE OFFERINGS

The Building Construction Trades program is available to 10th grade students who have passed required 9th grade courses and are interested in pursuing a career in construction or a construction-related field.

Students who choose Building Trades should be aware that this series of courses is offered as a major subject and that they will be required to display a good attitude and an overriding interest in this profession. A limited number of students can be enrolled in Building Trades. Students need to be aware that the possibility exists that not all students who complete Building Trades I or II will be able to schedule Building Trades II or III.

A maximum of 10 students will be permitted in the am class and 10 students in the pm class.
A prerequisite of Cabinet Making is recommended.

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

Grades 10 - 11 3 credits – full year

This course will consist of basic units in safety, tool care and use, carpentry, plumbing, painting and decorating, masonry, concrete placement and finishing, wiring and landscaping.

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

Grades 11 - 12 3 credits – full year

Prerequisite: A 'C' or better in Building Trades I. Need teacher approval.

This phase of the Building Trades course is an intensive practical course of "on-the-job" projects combined with classroom instruction which will build upon the units learned in Building Trades I.

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

Grade 12 3 credits – full year

Prerequisite: A 'C' or better in Building Trades II. Need teacher approval.

This course continues to expand upon the concepts and skills learned in previous years by utilizing a combination of classroom instruction and "on-the-job" projects.

DIVERSIFIED OCCUPATIONS EDUCATION COURSE OFFERINGS

(9510) Diversified Occupations Education I

Grades 12

1 credit

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 D.O. II.

(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

Grade 11

½ credit

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.

WELLNESS/PHYSICAL EDUCATION DEPARTMENT COURSE OFFERINGS

(9109) Freshmen Wellness

Grade 9

1 credit

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. The physical education portion will utilize sound health principles to teach students a variety of ways to be active. Topics will include fitness testing, team sports, individual sports, and a variety of other lifelong fitness activities.

(9110) Sophomore Wellness

Grade 10

1 credit

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. The physical education portion will utilize sound health principles to teach students a variety of ways to be active. Topics will include fitness testing, team sports, individual sports, and a variety of other lifelong fitness activities.

(9111) Junior Wellness

Grade 11

½ credit

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

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 can be used for wellness credit applied toward graduation requirements.

FAMILY/CONSUMER SCIENCE DEPT. COURSE OFFERINGS

(9210) Nutrition and You

Grades 9 – 12

½ credit

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

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

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

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

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.

Dual Enrollment Family/Consumer Science Course Listings

(PC9100) EDU 100 Child Development (NOT OFFERED 2017-2018)

(Penn College) – see dual enrollment pages 10-11 if approved

Grade 11 - 12

½ credit

3 college credits

Prerequisite: Students must pass the required placement test for Penn College and are responsible for the cost of materials.

An overview of typical growth and development of young children from birth to age eight. Cognitive, language, physical growth, gross and fine motor, emotional and social developmental milestones are the focus of this course, with a special emphasis on the implications they have for the care and education of young children. Other topics include an introduction to the basic concepts of major developmental theories; principles of learning and development; and developmentally appropriate practice. A strong focus on a family-centered approach is integrated throughout the course.

(PC9118) FHD 118 Sanitation

(Penn College) – see dual enrollment pages 10-11 if approved

Grade 10 - 12

½ credit

1 college credit

Prerequisite: Students must pass the required placement test for Penn College and are responsible for the cost of materials.

Integration of the Applied Foodservice Sanitation Certification Course as approved by The Educational Foundation of the National Restaurant Association. Topics include the principles of food microbiology, applied measures for the prevention of food borne illness, and emphasis on working through people to maintain a sanitary foodservice operation. Hazard Analysis Critical Control Point (HACCP) fundamentals and steps for implementation is a key component of the course. Course work prepares students for the ServSafe certification test and is part of the Profession Management series of the National Restaurant Association.

INDUSTRIAL ARTS DEPARTMENT COURSE OFFERINGS

(8011) Basic Cabinetmaking I

Grades 9 - 12 ½ credit

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

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

Prerequisite: 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

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

(9315) Basic Drafting II

Grades 9 - 12 ½ credit

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

Prerequisite: 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

Prerequisite: 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

Prerequisite: 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.

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)

MUSIC DEPARTMENT COURSE OFFERINGS

(7916) Foundations of Music Theory

Grades 10 – 12

½ credit

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

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

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

(7921) Piano/Keyboard Techniques II

Grades 10 - 12

½ credit

(7922) Piano/Keyboard Techniques III

Grades 11 - 12

½ credit

(7923) Piano/Keyboard Techniques IV

Grade 12

½ credit

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.

(7902) Concert Band

Grades 9 - 12

½ credit

Prerequisite: Successful completion of Book 1, knowledge of and facility with Concert C, 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.

MUSIC DEPARTMENT COURSE OFFERINGS

(7908) Vocal Musicianship (OFFERED IN 2017 - 2018)

Grades 9 - 12

½ credit

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

This course is designed to instruct students on the basic techniques of singing and apply them to performance situations, listening critiques and individual lessons. Students will be expected to perform in solo and ensemble settings throughout the duration of the semester. Previous singing experience is required.

(7909) Instrumental Musicianship

Grades 9 - 12

½ credit

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

Grades 9 - 12

½ credit

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

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.

(7990) Broadway Musical Productions

Grades 9 - 12

½ credit

This course will explore the evolution of Broadway musicals from their origins in opera through today's hits. Students will explore plot structure, character development, and other elements of a play, and compare texts with interpretations in live and video productions. This course will also cover stage terminology, vocal and movement training, and acting (improvisation, character analysis and duet/group acting) as well as stage design and set construction, lighting design, sound reinforcement, costuming, and makeup.

(7950) Advanced Instrumental Music Study

Grades 10 - 12

½ credit

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

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.

AGRICULTURE AND NATURAL RESOURCES COURSE DESCRIPTIONS

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

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

Level I Course

(8040) Introduction to Ag & Natural Resources

Grade 9

½ credit

This ½ credit course introduces students to the agricultural and natural resources industries and to the FFA. Because of its general content, this course is strongly suggested for all career paths. It can be taken any time, but it is strongly suggest 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.

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

Grades 9 – 10

½ credit – half year

This ½ credit course focuses on the scientific principles underlying the study of animals, plants, and soils. 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.

(8051) Introduction to Environmental Science and Agricultural Mechanics (*Sci)

Grades 9 – 10

½ credit – half year

This ½ credit course focuses on the scientific principles underlying the study of wildlife and forests. Scientific principles related to machine systems will be touched upon as well. 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.

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.

(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 Gasoline Engines (8014) or Basic Welding (8013). Teacher permission is required for this course.

(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 Gasoline Engines (8014). Teacher permission is required for this course.

AGRICULTURE AND NATURAL RESOURCES COURSE DESCRIPTIONS

(8034) Equine Management (NOT OFFERED 2017/2018)

Grades 10 – 12 ½ credit - 1 semester

Equine Management will be taught in school years beginning with an even number, so it will be offered in 2016 – 2017.

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

(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 8051

(8032) Greenhouse Production and Management

Grades 10 - 12 ½ credit

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 2017/2018)

Grades 10 - 12 ½ credit - 1 semester

Livestock Production and Management will be taught in school years beginning with an even number, so it will NOT be offered in 2016 – 2017.

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

(8036) Meat and Food

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

(8031) Advanced Horticulture

Grades 10 - 12 ½ credit

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

(8021) Crop and Soil Science (Sci)

Grades 10 - 12 ½ credit

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

(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

AGRICULTURE AND NATURAL RESOURCES COURSE DESCRIPTIONS

(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

(8013) Basic Welding

Grades 10 - 12 ½ credit - 1 semester

Students will begin with basic instruction in oxy-acetylene welding and cutting, and advance to electric arc, metal inert gas (MIG) welding and plasma cutting. The emphasis is on fundamentals in preparation for more advanced study and practice in this subject area. The plasma-cutting technique will also be a part of this course. Must have completed 8051

(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. Must have completed 8051

(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 8051

(8041) Supervised Agriculture Experience Project (SAE)

Grades 10 - 12 ½ credit

(8042) Supervised Agriculture Experience Project

Grades 10 – 12 ½ credit - 1 semester

(8043) Supervised Agriculture Experience Project

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 8053 and/or 8051.

SAE is designed to supplement other agriculture education coursework. Students must identify a specific project or personal interest before enrolling, and they must be willing and able to work independently. Written project records will be used to document and grade student performance.

Agriculture & Natural Resources Courses and Pathways

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

Level I Course

(8040) Introduction to Ag & Natural Resources

This ½ credit course introduces students to the agricultural and natural resources industries and to the FFA. Because of its general content, this course is strongly suggested for all career paths. It can be taken any time, but it is strongly suggest that students take this course in the freshman year.

Level II Courses

Important note: It is strongly suggested that students complete both Level II courses by the end of their sophomore year.

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

This ½ credit course focuses on the scientific principles underlying the study of animals, plants, and soils. 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.

(8051) Introduction to Environmental Science and Agricultural Mechanics (*Sci)

This ½ credit course focuses on the scientific principles underlying the study of wildlife and forests. Scientific principles related to machine systems will be touched upon as well. 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.

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.
- With teacher permission, Supervised Ag Experience (SAE) is available after students complete Level I and at least one Level II course.

<u>Agricultural Engineering Technology</u> Prerequisite: 8051	<u>Animal Science</u> Prerequisite: 8053	<u>Plant Science</u> Prerequisite: 8053	<u>Natural Resources Management</u> Prerequisite: 8051
• <u>Advanced Ag Mechanics</u> • <u>Engine and Machine Technology</u> • <u>Small Gas Engines</u> • <u>Basic Welding</u> • <u>Advanced Welding</u>	• <u>Animal Science (*Sci)</u> • <u>Dairy/Livestock Production & Management</u> • <u>Equine Management</u> • <u>Meat & Food Science</u>	• <u>Greenhouse Production & Management</u> • <u>Advanced Horticulture</u> • <u>Crop & Soil Science (*Sci)</u>	• <u>Forestry</u> • <u>Wildlife Management</u> • <u>Crop & Soil Science (*Sci)</u>

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

STUDENT ASSISTANTS

(9600) Teacher Assistant

Grades 9 – 12

1 credit

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.

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

Capital Area Intermediate Unit

55 Miller Street

Enola, PA 17025-1640

717-732-8400 ext. 8535

6 hours Behind-the-Wheel Training - \$70.00 per hour

Log on to: www.caiu.org

Search: Driver Education

Capital Area Intermediate Unit

55 Miller Street

Enola, PA 17025-1640

717-732-8400 ext. 8535

Number	Course ENGLISH	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
0209	Honors English I	1	X-(H)				.5
0309	Academic English I	1	X				
0210	Honors English II	1		X-(H)			.5
0310	Academic English II	1		X			
0111	Honors English III	1			X-(H)		.5
0311	Academic English III	1			X		
PC0111	Penn College English Honors	1				X(H)	.5
0412	AP English	1				X(AP)	1.0
0312	Academic English IV	1				X	
0525	Keystone Literature Remediation	$\frac{1}{2}$		X	X	X	
0530	Journalism	$\frac{1}{2} - 1$	X	X	X	X	
0709	Transitional English 9	1	X				
0710	Transitional English 10	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	

Number	Course MATHEMATICS	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
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				
1323	Keystone Algebra II	1		X	X		
1014	Geometry	1	X	X	X		
1114	Honors Geometry	1	X-(H)	X-(H)	X-(H)		.5
1023	Academic Algebra II	1	X	X			
1123	Honors Algebra II	1	X-(H)	X-(H)			.5
1024	Precalculus	1		X	X	X	
1224	Honors Precalculus	1		X-(H)	X-(H)	X-(H)	.5
1118	Honors Calculus I	1			X-(H)	X-(H)	.5
1218	AP Calculus II	1				X-(AP)	1.0
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 SCIENCE	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
2310	Earth Science	1	X	X	X	X	
2920	Biology w/ Lab	1½	X				
2930	Honors Biology with Lab	1½	X-(H)				.5
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)	1.0
2340	College Prep Physics w/ Lab	1½			X	X	
2116	Honors Advanced Chemistry	½			X-(H)	X-(H)	.5
2530	Astronomy	½		X	X	X	
2560	Environmental Science	½		X	X	X	
2350	Honors Electricity & Magnetism	½			X-(H)	X-(H)	.5
2360	Honors Waves, Sound & Optics	½			X-(H)	X-(H)	.5
PC2100	CHM100-Introductory Chemistry (Honors)-Penn College (NOT OFFERED in 2017-2018)	1½			X-(H)	X-(H)	.5
PC2200	HTH100: Introduction to Health Careers	½		X-(DE)	X-(DE)	X-(DE)	.25
PC2104	MTR104: Basics of Medical Terminology	½			X-(DE)	X-(DE)	.25

Number	Course SOCIAL STUDIES	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
3017	History 107 The US Since 1918 (HACC credit)	½			X-(DE)	X-(DE)	.25
3010	Modern World History	1	X				
3210	Honors Modern World History	1	X-(H)				.5
3227	Honors American History I	1		X-(H)			.5
3026	American History I	1		X			
3228	AP United States History	1			X-(AP)		1.0
3028	American History II	1			X		
3043	Psychology (College Prep)	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	
7210	Honors Humanities 100 (NOT OFFERED in 2017-2018)	1			X-(H)	X-(H)	.5
7220	Honors Humanities 101 (OFFERED in 2017-2018)	1			X-(H)	X-(H)	.5
PC3111	Psychology 111 General Psychology	½			X-(H)	X-(H)	.5

Number	Course BUSINESS	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
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 INFORMATION TECHNOLOGY DEPT	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
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	
6460	Intro Web Page Design	½		X	X	X	
6438	CIS 105 (HACC Credit)	½				X(DE)	.25
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	
6478	Trojan Sports Network (TSN)	½	X	X	X	X	
6479	Trojan Sports Network (TSN)	1	X	X	X	X	
6465	Website Design and Maintenance	½		X	X	X	
PC6150	BWM150: Introduction to Web Page Development	½			X-(DE)	X-(DE)	.25
PC6124	CSC124: Information, Technology and Society (NOT OFFERED in 2017-2018)	½		X-(DE)	X-(DE)	X-(DE)	.25
PC6105	MGT105: Introduction to Business	½			X-(DE)	X-(DE)	.25

Number	Course WORLD LANGUAGE	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
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)	.5
5031	Spanish I	1	X				
5032	Spanish II	1		X			
5033	Spanish III	1			X		
5234	Honors Spanish IV	1				X-(H)	.5
5041	German I – Online	1	X				
5042	German II - Online	1		X			
5043	German III - Online	1			X		
5244	Honors German IV - Online	1				X-(H)	.5

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

Number	Course DIVERSIFIED OCCUPATIONS	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
9510	Diversified Occupations I	1				X	
9520	Diversified Occupations II	3				X	
9530	Career Exploration & Job Acquisition	½			X		

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
PHYSICAL EDUCATION/HEALTH							
9109	Freshman Wellness	1	X				
9110	Sophomore Wellness	1		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	WEIGHT
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				
PC9100	EDU100 Child Development (NOT OFFERED in 2017-2018)	½				X-(DE)	.25
PC9118	FHD118: Sanitation	½		X-(DE)	X-(DE)	X-(DE)	.25

Number	Course	Credits	GRADE 9	GRADE 10	GRADE 11	GRADE 12	WEIGHT
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	WEIGHT
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	WEIGHT
MUSIC							
7916	Foundations of Music Theory	½		X	X	X	
7918	Honors Advanced Music Theory	½			X-(H)	X-(H)	.5
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	
7908	Vocal Musicianship (OFFERED IN 2017-2018)	½	X	X	X	X	
7909	Instrumental Musicianship	½	X	X	X	X	
7940	Music Technology	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	WEIGHT
STUDENT ASSISTANTS							
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	WEIGHT
STUDENT SERVICES							

(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	WEIGHT
AGRICULTURE AND NATURAL RESOURCES							
8040	Intro to Agriculture & Natural Res.	½	X				
8053	Intro to Animal, Plant and Soil Science (*Sci)	½	X	X			
8051	Intro to Environmental Science & Agricultural Mechanics (*Sci)	½	X	X			
8017	Advanced Agriculture Mechanics	½		X	X	X	
8016	Engine & Machine Technology	½		X	X	X	
8034	Equine Management (NOT Offered 2017/2018)	½		X	X	X	
8022	Forestry	½		X	X	X	
8032	Greenhouse Production & Management	½		X	X	X	
8033	Dairy and Livestock Production & Mgt. (Offered 2017/2018)	½		X	X	X	
8036	Meat & Food	½		X	X	X	
8031	Advanced Horticulture	½		X	X	X	
8021	Crop and Soil Science (*Sci)	½		X	X	X	
8014	Small Gas Engines	½		X	X	X	
8035	Animal Science (*Sci)	½		X	X	X	
8013	Basic Welding	½		X	X	X	
8113	Advanced Welding	½			X	X	
8023	Wildlife Mgt. & Conservation	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	

Level I Course

(8040) Introduction to Ag & Natural Resources

This ½ credit course introduces students to the agricultural and natural resources industries and to the FFA. Because of its general content, this course is strongly suggested for all career paths. It can be taken any time, but it is strongly suggest that students take this course in the freshman year.

Level II Courses

Important note: It is strongly suggested that students complete both Level II courses by the end of their sophomore year.

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

This ½ credit course focuses on the scientific principles underlying the study of animals, plants, and soils. 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.

(8051) Introduction to Environmental Science and Agricultural Mechanics (*Sci)

This ½ credit course focuses on the scientific principles underlying the study of wildlife and forests. Scientific principles related to machine systems will be touched upon as well. 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.