

CHICHESTER HIGH SCHOOL

Course Selection Guide



2010-2011

Table of Contents

Graduation Requirements.....	3
Graduation Project.....	4
Levels of Instruction.....	5
Weighted Grade System/Class Rank.....	7
Course Selection Process.....	8
Modification of Student Schedules.....	8
Withdrawal from Course/Level Changes.....	9
College Admission Requirements.....	10
9 th Grade Course Offerings.....	11
10 th Grade Course Offerings.....	12
11 th Grade Course Offerings.....	13
12 th Grade Course Offerings.....	14
Career Exploration Opportunities.....	15
Art Department.....	18
English Department.....	21
Family and Consumer Sciences Department.....	27
Foreign Language Department.....	29
Information Technology Department.....	32
Mathematics Department.....	38
Music Department.....	44
Physical Education Department.....	47
Science Department.....	48
Social Studies Department.....	52
Special Education Department.....	57
Technology Education Department.....	58

Graduation Requirements

The Chichester Board of School Directors and Chapter 5 Mandate have established graduation requirements outlined in the following chart.

Credits Required to Graduate		
Subject Area	Earned through these Departments	Number of Credits
English	English	4.0
Math	Math	3.0
Science	Science	3.0
Social Studies	Social Studies	3.0
Arts/Humanities	World Cultures European History Art Music Foreign Language Technology Education Family and Consumer Science Performing Arts Journalism	2.0
Health and PE	Physical Education and Health	2.5
Electives	All Departments	6.5
Graduation Project	Senior English Classes	N/A
Total Credits		24.0

Notes:

- There are specific courses required of all students at each grade level. (Physical Education is required each year; Freshman Seminar is required of 9th grade students, etc.).
- Requirements for Grade Placement: Homeroom assignments and grade level will be determined by the appropriate accumulation of credits.

Grade 10	4.0	Credits
Grade 11	10.0	Credits
Grade 12	17.0	Credits

Graduation Project

The Pennsylvania Department of Education requires all high school seniors to complete a senior project as part of their graduation requirement. The purpose of the project is twofold:

- To enable students to demonstrate that they are able to apply, analyze, synthesize and evaluate information.
- To provide students a vehicle for communicating knowledge and understanding.

Chichester High School fulfills this state requirement through the senior English class. During the senior English class, teachers will work with students to complete the graduation project. This is a requirement for all seniors.

Freshman Seminar (FRS001/FRS002)

This course is designed to transition incoming freshman to the rules, procedures, and expectations of Chichester High School. Students will establish academic goals and orient themselves with the plethora of extra-curricular activities that are offered at the high school level. Career goals and the transition planning process for special needs students will begin with this freshman seminar course. These goals will be used to design their academic and social path. In addition, freshman seminar will allow students to view their opportunities for the next four years. Teachers will function as mentors to aid in this process.

Students will also learn a variety of strategies to assist them academically. During the class period, students will practice reading, writing, listening, speaking, researching and presenting. Students will study units on organization, time management, memory, the library, note taking, plagiarism, how to study, and how to effectively read a textbook. The class will complete these units through a variety of assessments including class work, homework, projects and class presentations.

Freshman seminar is a semester course. Teachers will motivate students to reach their academic and social goals and provide them with the skills to ensure a successful freshman year. This is a required course for all incoming freshman.

Levels of Instruction

The courses available to students at Chichester High School are leveled in accordance with their degree of difficulty. Level IV courses are those of greatest difficulty. In computing class rank, courses are weighted differently based on the four levels of difficulty, with Level IV courses receiving the highest weight value and Level I courses the lowest weight value.

Students are placed in an appropriate level of instruction for each of their courses on the basis of their achievement and motivation, teachers' recommendations, and standardized test results. Students may indicate a preference for level placement. This should be discussed with your guidance counselor.

Level I (General)

Students in Level I courses are expected to participate fully in classroom activities since much of the work will be conducted in the classroom. Regular attendance is essential to maintain satisfactory progress. Some outside work of both a daily and long-range basis will be assigned, the amount varying by department. Instruction will emphasize improving the basic skills of reading, writing, math computation, and speaking.

Level II (Academic)

Students in Level II courses are expected to do creative independent work near that required of students in Level III courses. Outside work will be assigned on both a daily and long-range basis. Research requiring the use of varied resources in the community and school will be assigned.

Students placed in Level II courses should have average or above-average ability, above-average standardized test scores, and high motivation for academic growth and development.

Level III (Honors)

Students in Level III courses are expected to do creative and independent work, show initiative and manifest leadership qualities in group activities, and participate meaningfully in classroom activities. Considerable outside work involving reading and writing will be assigned on both a daily and long range basis. Students will be expected to do high quality research utilizing varied resources in the school and community.

Students placed in Level III courses should have above-average or superior ability, proficient standardized test scores, and high motivation for academic growth and development.

Level IV (Advanced Placement)

Students may earn college credit or advanced standing at many colleges by earning high scores on the Advanced Placement Tests. The tests are prepared by the College Entrance Examination Board and are administered at Chichester in May. A fee is charged for each test. Students prepare for the tests by taking advanced placement courses. **Enrollment in AP Courses is considered a commitment to take the AP exam.**

Courses are offered in English, Spanish, Biology, Chemistry, Calculus AB, American History, US Government and Politics, Music Theory, and Art Studio. Any student interested in taking an Advanced Placement level course should consult with their counselor. Advanced Placement level courses require extensive independent study and reading. Students selecting AP courses should have superior ability and advanced standardized test scores.

Weighted Grade System/Class Rank

For computation of a student's Grade Point Average (G.P.A.) each grade is assigned a point value. The points assigned to any particular grade increase in value as the level of instruction increases. (See Point Value Listing). At the end of each school year a Cumulative Grade Point average is computed for each student. This grade point average is then used to determine a student's rank in class.

Weighted Grades – For G.P.A.

Level	A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
IV	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.5	3.2	2.8	2.5	2.2	0
III	5.3	5.0	4.7	4.3	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	0
II	4.8	4.5	4.2	3.8	3.5	3.2	2.8	2.5	2.2	1.8	1.5	1.2	0
I	4.3	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.7	0

Grade Reporting Procedures

Report cards are issued every nine weeks. Progress Reports are issued at the mid-point of each marking period. Parents who register with the administration may access the Eschoolbook parent portal to review student progress at designated times throughout the year.

Grading System

A+	98-100	C+	83-85	M	Medical
A	95-97	C	78-82	I	Incomplete
A-	93-94	C-	75-77	W	Withdraw
B+	91-92	D+	73-74	WF	Withdraw/Failing
B	88-90	D	71-72	P	Pass
B-	86-87	D-	70	WP	Withdraw/Passing
		F	69 & below		

Course Selection Process

All students are encouraged to read the Course Selection Guide carefully. It should be used with the advice of your counselor, parents and teachers to select courses appropriate to your interests, abilities, and future plans.

Information sessions regarding course selection will be conducted by counselors. A Parent Orientation Program will be scheduled for incoming freshmen. Classroom time will be used by teachers to make recommendations to students for course selection in the subject area taught by that teacher. Students and parents may schedule conferences with guidance counselors to discuss any matters related to course selection. Students with an IEP should consult with their case managers before finalizing course selections.

Students are encouraged to follow their teacher's recommendations when choosing courses. If a parent/student is requesting to override the recommendation of the teacher, a Parent Request for Course/Level Review must be obtained from the guidance counselor. The parent and student must sign the form stating that they are *attempting* to override the recommendation of the teacher and counselor. **A parent/teacher conference, review of standardized test performance, timed writing sample, work samples and/or portfolio review may be required before a level override is approved/denied.** Level changes will not be made after the start of the school year for students who elect this option; the commitment is for the duration of the course for which the override is implemented. **A parent cannot request a course for which the student does not have the pre-requisite or recommended 4Sight scores** (e.g. if a student does not have final grade of "B" in PreCalculus, he/she may not elect AP Calculus by parent override). Level overrides cannot be used for AP courses.

Modification of Student Schedules

The first two weeks of the school year will be reserved for errors and omissions on schedules *only*. Students who do not complete a course selection sheet will be assigned courses and will not be permitted to change their schedules at any time.

Other requests for changes will be reviewed by an Administrator/Counselor committee after the first two weeks of school. Changes will be reviewed for students who submitted course selection sheets; students who did not complete course selection sheets forfeit their right to request changes! Schedule changes require Administrator/Counselor Committee approval.

Level Changes

Dropping a level in a course (i.e. going from an Academic course to a General course) will occur only after first marking period grades are available. If a student was recommended for the course in which he is enrolled, that student must make every effort to be successful in the class before a level change will be considered, including **completing homework assignments and seeking tutoring/extra help**. Level change requests will be reviewed by the Administrator/Counselor committee. Drops in level will be considered *only* for students who continue to have difficulty with the course after putting forth consistent effort. Approved level changes must be processed no later than two weeks after the first marking period.

Students who want to consider **Advancing a level in a course** (i.e. going from a General course to an Academic course) must meet with his/her counselor. A teacher's recommendation, parent permission, and Administrator/Counselor committee approval will be required in order to advance a level in a course. Such requests will be considered only for those students achieving an "A" in the recommended course and can occur no later than four weeks into the first marking period.

Withdrawal From Course

Students who wish to request a withdrawal from a course should see their counselor for a Course Withdrawal Form. This form requires input and recommendations from the parent, student, and teacher. After reviewing the form, the counselor will submit the Course Withdrawal Form to the Administrator/Counselor committee for approval if:

- It is determined that the withdrawal is in the best interest of the student
- The course request is consistent with career and educational goals
- A replacement course is available.

Course withdrawals must be processed no later than four weeks into a course or at the beginning of the second semester.

Course withdrawals occurring at the end of the second marking period will result in the student receiving a grade of "WF" which **will be included in the calculation of the student's GPA and class rank**.

College Admission Requirements

Requirements for admission to college are considerably higher than the minimum high school graduation credit requirements in most cases. College-bound students should check the requirements of the colleges to which they want to apply. Generally, colleges expect students to take Academic and/or Honors level courses every year in high school and to have a minimum math requirement including Algebra I and II and Geometry. Although many selective colleges prefer that students study three or four years of a foreign language in high school, most require two years of the same language of study for admission. Some colleges are granting admission to students who have not scheduled a foreign language in high school. Students who do not schedule two years of a language limit their choice of colleges. Athletes should check to be sure that course selection meets NCAA eligibility requirements. Level I (general) courses do not meet NCAA eligibility standards for Division I and II schools!

What do colleges look for?

In evaluating your credentials for admission, colleges will consider the following:

1. High School Transcript: A photocopy of your cumulative record from grade 9 through 12 including:

Cumulative Grade Point Average (GPA): A weighted system giving greater point value to grades in higher level courses such as honors or AP.

Class Rank: Presented as the student's place in class, followed by the total number in the class (e.g. 35/245). Rank is based upon a cumulative weighted average of all graded courses in grades 9 – 12.

Test Scores: Standardized college admissions tests such as the PSAT, SAT, and ACT, as well as achievement tests such as the PSSA and 4Sight given at Chichester High School.

Extracurricular Activities, Awards, and Honors.

School Profile: A pamphlet including pertinent information on the school and community such as class size, percentage of graduates going to college, average SAT scores, information on the calculation of grades and class rank and the leveling of courses.

Recommendations (when required)

2. Essay or Writing Sample: (when required)

3. Interview: (if required or optional)

9th Grade Course Offerings

During the freshman year, students will select courses* as follows:

Required Courses:

English 9: (Choose one)

ENG190 English 9
ENG290 Academic English 9
ENG390 Honors English 9

Social Studies: (Choose one)

SOC190 World Cultures 9
SOC290 Academic World Cultures
SOC390 Honors World Cultures 9

Science: (Choose one)

SCI190 Science 9
SCI290 Academic Science 9
SCI310 Honors Biology

Mathematics: (Choose one)

MTH191 Introduction to Algebra
MTH290 Algebra I
MTH202 Algebra II (must have a "C"
or better in Algebra I)
MTH315 Honors Algebra II (must
have a B+ or better in Algebra 1)

Physical Education:

PEB101 Boys PE
PEG101 Girls PE

Freshman Seminar:

FRS001

Electives:

Students must select 2.0 Elective Credits.

Promotion:

Students must earn at least 4.0 Credits in grade 9 to be promoted to grade 10 and be placed in a 10th grade homeroom.

*IEP students will be placed in levels/courses deemed appropriate by the IEP team to accommodate their academic needs.

Mandatory Reading and/or Math Enrichment courses will be scheduled for those students who score below "proficient" on standardized tests (4Sight). Corrective Reading will be scheduled for IEP students based upon performance on a decoding test.

10th Grade Course Offerings

During the sophomore year, students will select courses* as follows:

Required Courses:

English 10: (Choose one)

ENG110 English 10
ENG210 Academic English 10
ENG310 Honors English 10

Social Studies: (Choose one)

SOC116 U.S. History 10
SOC210 Academic U.S. History 10
SOC310 Honors U.S. History 10

Science: (Choose one)

SCI101 Biology
SCI210 Academic Biology
SCI310 Honors Biology
SCI211 Academic Chemistry
SCI311 Honors Chemistry

Mathematics Selection:

Based on level, recommendation,
and prerequisites.

Physical Education: (Choose one)

PEB101 Boys PE 9/10
PEG101 Girls PE 9/10

Health: (Choose one)

PED107 Health
PED108 Health 5x per cycle for
honors science students

Electives:

All students must carry 7.0 Credits.

Promotion:

Students must earn a cumulative
total of 10.0 Credits by the end of
grade 10 to be promoted to grade 11
and be placed in a 11th grade
homeroom.

Other available programs:

Delaware County Technical Schools
(Votech) DCTS

*IEP students will be placed in levels/courses deemed appropriate by the IEP team to accommodate their academic needs.

Mandatory Reading and/or Math Enrichment courses will be scheduled for those students who score below "proficient" on standardized tests (4Sight). Corrective Reading will be scheduled for IEP students based upon performance on a decoding test.

11th Grade Course Offerings

During the junior year, students will select courses* as follows:

Required Courses:

English 11: (Choose one):

ENG111 English 11
ENG211 Academic English 11
ENG311 Honors English 11
ENG411 AP Language & Comp.

Social Studies: (Choose one)

SOC117 Government
SOC211 Academic Government
SOC311 Honors Government
SOC413 AP Government

Science: (Choose one)

SCI103 Comprehensive Science
SCI105 Biology II
SCI205 Academic Biology II
SCI211 Academic Chemistry
SCI311 Honors Chemistry
SCI212 Academic Physics
SCI312 Honors Physics
SCI313 Advanced Biology
SCI400 AP Biology
SCI401 AP Chemistry

Mathematics Selection:

Based on level, recommendation,
and prerequisites.

Physical Education: (Choose one)

PEB103 Boys PE 11/12
PEG103 Girls PE 11/12

Electives:

All students must carry 7.0 Credits.
Students must fill their schedules
with elective credits.

Promotion:

Students must earn at least a
cumulative of 17.0 Credits by the
end of grade 11 to be promoted to
grade 12 and be placed in a 12th
grade homeroom.

Other available programs:

Delaware County Technical Schools
(Votech) DCTS
School to Work (Work Study)

*IEP students will be placed in levels/courses deemed appropriate by the IEP team to accommodate their academic needs.

Mandatory Reading and/or Math Enrichment courses will be scheduled for those students who score below "proficient" on standardized tests (4Sight). Corrective Reading will be scheduled for IEP students based upon performance on a decoding test.

12th Grade Course Offerings

During the senior year, students will select courses* as follows:

Required Courses:

English 12: (Choose one)

ENG112 English 12
ENG212 Academic English 12
ENG312 Honors English 12
ENG412 AP Literature & Comp.

Physical Education: (Choose one)

PEB103 Boys PE 11/12
PEG103 Girls PE 11/12

Electives:

All students must carry 7.0 Credits. Students must fill their schedules with elective credits. All 12th grade students are required to take English and at least two other major one credit courses (math, science, social studies) in addition to any other courses taken.

Other available programs:

Medical Careers
DCCC Fast Track Programs:
(Process Control, CAD/Drafting,
Machining Operations)
Delaware County Technical
Schools (Votech) DCTS
School To Work (Work Study).

Graduation:

All Students must complete 24.0 Credits in the required courses by the end of senior year in order to meet graduation requirements. While many students have earned all state required credits in Math, Science, and Social Studies by their senior year, additional courses may be required to meet college admission standards, NCAA eligibility, or as preparation for a particular career. Students should consult with the guidance counselors to make appropriate course selections.

*IEP students will be placed in levels/courses deemed appropriate by the IEP team to accommodate their academic needs. Corrective Reading will be scheduled based upon performance on a decoding test.

Career Exploration Opportunities

Delaware County Technical School (VOC###)

The Chichester School District participates in a program which offers additional career and technical courses at the Delaware County Technical Schools (DCTS). Each course is an extension of the high school program and credit towards high school graduation will be awarded. The courses are scheduled on a half-day basis and are available to students in grades 10-12. Courses of study are:

Construction Cluster:

- Building Trades
- Carpentry
- Industrial / Residential Electricity
- Heating, Air Conditioning & Refrigeration (HVAC)
- Landscape/Greenhouse Operations

Human Services Cluster:

- Cosmetology
- Culinary Arts and Hospitality
- Health Occupations
- Medical Careers Program
- Early Childhood Education
- Emergency & Protective Services

Technology Institute:

- Business Technology and Office Systems
- Computer Network Systems
- Advertising Design & Commercial Art
- Applied Engineering Technology

Power/Transportation Cluster:

- Automotive Technology
- Collision Repair Technology
- Materials and Inventory Control

Skills Start:

- Food Service
- General Construction
- Materials and Inventory Control

Medical Careers Program (grade12)

This advanced course is recommended for college-bound seniors interested in pursuing a career in the healthcare professions. Through a partnership with Taylor Hospital, students will rotate through various departments and observe career opportunities alongside medical professionals as they care for patients. The academic curriculum will include the study of anatomy, physiology, pathophysiology, medical terminology, legal/ethical issues, infection control, and safety. Students will learn basic patient care skills including assessment of vital signs, first aid, sterile techniques, and CPR. Recommended courses are Academic or Honors Biology, Chemistry, Algebra I, Algebra II and Geometry. AP and Honors courses and a minimum GPA of 3.0 are preferred.

DCTS Applied Engineering Technology Program: (grades 11 and 12)

The Applied Engineering Technology Academy is a 2 + 2 +2 program that combines classroom and hands-on training. The program emphasizes practical applications of engineering design concepts. Students take courses on a half-day schedule at both Delaware County Technical School and Delaware County Community College. In addition, students take three major courses at the high school. Upon successful completion of two years in the high school program, students may continue at DCCC to earn an associates degree and, if desired, complete another two years at Drexel, Widener, Penn State, DeVry, or Neumann University to earn a bachelors degree. Interested students may choose either manufacturing, electrical, or mechanical engineering clusters.

Note: All new applicants must select 7 periods of high school courses (not including Vo-Tech courses). After notification of acceptance is received, the student's schedule will be changed to a Vo-Tech schedule.

DCCC Fast Track Programs (Grade 12)

Delaware County Community College offers "fast track" programs to **qualified seniors** who wish to receive college-level training in Process Control Technology, Computer Aided Drafting/Design, or Machine Operations. Each program

has specific GPA requirements, course prerequisites, and minimum standardized test scores. A DCCC placement test is required.

Process Control Technology (major code PCT)

The Process Control Technology Program is a cooperative education program combining classroom training at Delaware County Community College and job training. The program prepares students to seek entry-level positions as Process Operators/Technicians within the processing industry fields where refining, compounding, and mixing operations are commonly performed (e.g. petroleum refining, chemical/ petrochemical manufacturing, commercial distribution). Upon completion of the program, students may continue to earn credits toward a second-level certificate or an associate's degree.

Computer Aided Drafting/Design (major code DDT)

The CADD Certificate of Competency/Associate Degree Program is available to *qualified high school seniors* who are interested in pursuing a career as a Drafter/Designer. This model will first lead to a recognized industry credential (the certificate) and ultimately a degree in CADD. The certificate program is designed to accommodate students who have had no prior CADD experience.

**Machining Operations
(major code MTCI)**

The Certificate of Competency in Machining will prepare students for entry-level positions in machining and will afford an opportunity for students to seek employment in the manufacturing industry. A credential from DCCC is recognized within our region as verification that students have mastered basic skill sets in machining, limiting the need for on-the-job training. Upon completion of the program, the student may opt to continue their studies part-time in the Machine Tool Technology (MTT) associate degree program. Students who meet the criteria of this program may opt to pursue the Bachelor of Science Degree career pathway at one of the six four-year institutional partners that accepts the associate degree.

**School To Work Program
Work Study (BUS031, BUS032,
BUS033) Grades 11, 12**

The Work Study course is designed for students who have secured a job and have filed the appropriate forms

with the work study coordinator. The school to work program is divided into two categories: one credit and two credits. Student dismissal time is based upon academic credits acquired and the amount of hours employed per week. The student must adhere to the rules and regulations of the program in order to secure academic credit.

**Community Service Program
(COM001) Grades 9-12**

The goal of the community service program is to instill and reinforce the premise that volunteerism without expectation of reward is fundamental; not only to the present, but to the future well being of our community and nation.

Upon securing a volunteer site, the student will complete an application form and return it to the community service coordinator. In order to gain ½ credit, the student must satisfactorily complete 45 hours of volunteer service during a semester, and submit the necessary forms to the community service coordinator.

Art Department

All courses in the Art Curriculum will include aspects of making art, the historical study of art, and skills by which students may make more informed judgments about art objects. The Art courses are designed to foster the development of the individual student as a creative, sensitive, visually literate person. All students will be required to supply their own basic materials, (pencils, markers, pens and rulers. Art I and above require sketch books).

Grades	Course	Level	Periods / Days	Credits
9-12	Art Major I	I	6/6	1.0
10-12	Adv. Art (Honors)	III	6/6	1.0
11-12	AP Art Studio	IV	6/6	1.0
9-12	Design I	I	6/6	1.0
10-12	Design II	II	6/6	1.0
9 -12	Introduction to Ceramics	I	6/6	0.5
9 -12	Multimedia Visual Art	I	6/6	1.0
9 -12	Introduction to Art	I	6/6	0.5
9 -12	Introduction to Web Page Design & Computer Graphics	II	6/6	0.5
9-12	Mural Painting	II	6/6	0.5

Art Major I (ART101)

Portfolio development begins at the Art Major I level and continues through the Art Major sequence. Emphasis is placed on originality and personal expression through a structured program built on basic concepts and techniques in art, as well as constructive criticism and individual evaluation. A strong emphasis will be placed on "Learning to See" by working from the human figure, still life, landscape, and interior subject matters, in a variety of media. All students will participate in art shows and exhibitions. There is

a minimum prerequisite of a B+ average or better or Art teacher approval to advance to the next level.

Advanced Art Major (Honors level) (ART300)

Prerequisite: Art Major I with a B+ or better and instructor approval.

This course combines the curriculum of previous courses in Art II, Art III, and Drawing and Painting. The course may be taken more than once for credit. Students will

continue developing a portfolio of original art including a variety of two and three-dimensional work and media processes. Concentration will be based upon portfolio needs as well as individual student interests (e.g. Fashion, Advertising, Fine Arts, Computer Graphics). Students will be encouraged to compete in local, state and national exhibitions. There will be a focus on originality of concept, technique development, and exploration of a variety of processes to produce the end product. In reaching his/her potential, each student can develop a life-long appreciation and knowledge of art and art theory. Careers-In-Art Programs will feature a variety of school representatives and practicing artists.

AP Art Studio (ART400)

This course involves college level work in which the students produce approximately 24 pieces for their portfolios. There is a minimum prerequisite of a B+ average in Advanced Art. Students must get permission from the art moderator to participate in this accelerated program. Completion of AP Studio Art Exam is expected.

Design I (ART105)

This course is specifically designed to meet the requirements of students interested in two-dimensional design concepts of original illustration, logo, cartoon, sign making, and lettering styles. Emphasis will be placed on portfolio development and

professional standards. Black and white as well as color media will be explored. Students will participate in art shows and exhibitions. Emphasis will be placed on “process” vs. “product” and on craftsmanship and form. There is a minimum prerequisite of a B average or better to advance to the next level.

Design II (ART210)

Prerequisite: Design I or Art Major I.

This course is offered to students who have already shown an interest in the area of design and would like to continue in-depth study in a particular area such as Illustration or Graphic Design on the Computer.

Introduction to Ceramics (ART108)

This course will provide students an opportunity to work with clay and glazes. Students will become familiar with a variety of pottery and sculpture techniques as well as with the tools, vocabulary, materials and equipment used in a ceramics studio. In addition, students will be introduced to the rich, multicultural history of ceramics through selected readings and projects. Work will be assessed in terms of creativity, technique and effort.

Multimedia Visual Art (ART113)

Multi-Media Visual Art is a comprehensive course designed to accommodate a broad variety of student interests and abilities. The

primary focus of the course is to provide students with creative challenges based on the elements and principles of design and the rich, multicultural history of the visual arts. Students will create original artwork using both two and three dimensional media. The course will incorporate ceramic lessons, as well as other artistic media (pastel, paint, collage).

Introduction to Art (ART112)

This course is for the student who is interested in Art on a limited basis. It acquaints the student with the world of Art through a variety of media, techniques and concepts. The student will have the opportunity to explore various areas of Art including Drawing, Painting, Design, and Crafts.

Introduction to Basic Web Page Design & Computer Graphics (ART213)

Prerequisite: Students must have completed an Art class and received a grade of "B" or better.

This course is for students interested in pursuing Web Page Design. Students will create web page designs and graphics to build their own web pages.

Mural Painting (ART225)

Prerequisite: Students must have completed an Art class and received a grade of "B" or better.

This is an intermediate to advanced level art class designed to teach students the history, practice, and process of mural painting. Students will learn specifically about Philadelphia's Mural Arts Program, muralists, and famous murals. A strong emphasis will be placed on drawing and painting. All students will participate in creating, designing, and painting both a class mural and individual murals. Artwork will be presented in art shows and exhibitions.

English Department

Three Typical Progressions in English				
Level	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Honors	Honors English 9	Honors English 10	Honors English 11 or AP English Language and Composition	Honors English 12 or AP English Literature and Composition
Academic	Academic English 9	Academic English 10	Academic English 11	Academic English 12
General	English 9	English 10	English 11	English 12

Grades	Course	Level	Periods/ Days	Credits
9	English 9	I	6/6	1.0
9	Academic English 9	II	6/6	1.0
9	Honors English 9	III	6/6	1.0
10	English 10	I	6/6	1.0
10	Academic English 10	II	6/6	1.0
10	Honors English 10	III	6/6	1.0
11	English 11	I	6/6	1.0
11	Academic English 11	II	6/6	1.0
11	Honors English 11	III	6/6	1.0
11	Advanced Placement English 11 - AP English Language and Composition	IV	6/6	1.0
12	English 12	I	6/6	1.0
12	Academic English 12	II	6/6	1.0
12	Honors English 12	III	6/6	1.0
12	Advanced Placement English 12 - AP Literature and Composition	IV	6/6	1.0
11	S.A.T. Preparation	N/A	6/6	0.5
9 - 11	Reading Enrichment	N/A	6/6	0.5
11 - 12	Yearbook	N/A	6/6	0.5
10 - 12	Creative Writing	II	6/6	0.5
9 - 12	Journalism	II	6/6	0.5

NOTE: Students who choose to enroll in Honors English or an Advanced Placement course must have the recommendation of their current teacher and a minimum of a *B+* average in their current English class. Before making recommendations, teachers will review 4-Sight scores (advanced or proficient scores recommended) and will consider the student's overall performance, including attendance and preparedness. Students entering Honors English for the first time must review their portfolio with the current department chair or the teacher of the course in which they are attempting to enroll.

Advanced Placement English Literature and Composition for 12th Grade (ENG412)

AP English Literature and Composition is a college level course requiring the approval of your English 11 teacher and the current AP Literature teacher. If students are successful on the national AP Examination in English Literature and Composition, many colleges and universities may grant them college credits.

Students will read selected poetry and prose passages employing "close reading" techniques. They will write analytical essays based on poetry, prose passages, and complete novels and plays. Students will learn to sustain an argument while guiding a reader through well-organized evidence drawn from the details of a text. Classical and contemporary literature will be analyzed for structure and meaning. Students are required to choose three of the following for summer reading: *All Quiet on the Western Front*, *The Awakening*, *Frankenstein*, *The Curious Incident of the Dog in the Night-Time*, and *The Namesake*. They will also prepare three essays responding to authentic AP

Literature prompts before the class begins in September.

Students electing this course are expected to complete the AP English exam.

Honors English 12 (ENG312)

Honors students will study contemporary and classical authors using the current 12th grade text published by Prentice Hall. Students will complete numerous independent reading and writing assignments. Two books will be assigned for summer reading.

Academic English 12 (ENG212)

Students will study world literature selections with a British emphasis.

Portfolio requirements include various forms of written expression. Oral presentations will be an integral part of the college-prep curriculum. Summer reading will be assigned in June.

English 12 (ENG112)

Students will study world literature selections with a British emphasis. Portfolio requirements include various forms of written expression.

Oral presentations will be an integral part of the college-prep curriculum. Summer reading will be assigned in June.

Advanced Placement Language and Composition for 11th Grade (ENG411)

Advanced Placement Language and Composition provides college level instruction concentrating on the analysis of fiction and non-fiction prose. The analysis of poetry is included in the course; however, more emphasis is placed on the other literary genres. Students who enter this course should be active readers who are willing “to extract the full meaning of prose passages by analyzing and defining the composing techniques that give a text its aesthetic character” (Ehrenhaft 3).

Students will complete summer reading and writing assignments based on passages from acclaimed essays and speeches while composing double learning log entries (T-Charts) for each of these relatively short passages. Students will keep reading response logs or graphic organizers for approximately every 50 pages of reading from the above classics.

Honors English 11 (ENG311)

Similar to Academic English 11, Honors English 11 takes a multi-cultural and thematic approach to the study of American Literature. Students in this class are expected to do a number of independent

readings, writings and research projects that will be completed at an accelerated pace. Other requirements include oral presentations and group projects. Summer reading will be assigned in June prior to the course. Portfolio requirements include various forms of written expression.

Academic English 11 (ENG211)

Academic English 11 takes a multi-cultural and thematic approach to the study of American Literature. Students will focus their attention on how literary works portray the following topics: Coming to America, The American Dream, Social Responsibility, and Taking a Stand. Vocabulary and composition skills are an integral part of the class and are taught in conjunction with the study of literature and grammar. Summer reading will be assigned in June prior to the course. Portfolio requirements include various forms of written expression.

English 11 (ENG111)

Students gain both an understanding of and appreciation for the American experience through reading selected works of major American authors. These works may include: Steinbeck's *Of Mice and Men* and Miller's *The Crucible*. Narrative, persuasive, and expository literature are studied prior to writing narrative, persuasive, and expository essays. Film studies are incorporated within the course to enhance the learning experience. Book projects and vocabulary study are required. There is an emphasis on creative

writing where students present their own reactions to novels, plays and short stories. Summer reading will be assigned in June. Portfolio requirements include various forms of written expression.

Honors English 10 (ENG310)

Intended for advanced college-bound students, Honors English 10 provides an accelerated approach to literary genre. A comprehensive study of each type of literature is emphasized. Units explored include the short story, drama, poetry, the novel, and non-fiction.

Vocabulary development is emphasized through mastery of "college bound" word lists. Written and oral book reports are required throughout the course. A writing instruction unit aims to develop competency in writing and includes learning how to write persuasive, narrative, and expository themes. All writing is housed in portfolios. Summer reading will be assigned in June prior to the course.

Academic English 10 (ENG210)

Academic English 10 is required of all academic track students who do not elect Honors. The college-prep track provides an in-depth study of the elements of the short story, Shakespeare's *Julius Caesar*, a modern novel, grammar and composition, book reports, and vocabulary development. Other units may include mythology, poetry, and the Arthurian legend. Summer reading will be assigned in June.

Portfolio requirements include various forms of written expression.

English 10 (ENG110)

English 10 will survey the various types of literature: short stories, plays, the novel, and poetry. Grammar and composition development will be emphasized. Book reports, vocabulary-building units, speech fundamentals, and study skills are also among the course requirements. Summer reading will be assigned in June. Portfolio requirements include various forms of written expression.

The *Literature and Language* text used in this course focuses on the integrated approach to instruction. Thematic units are combined with traditional grammar and composition exercises. Thematic units combine selected poetry, short stories, drama, and novel, as well as other fictional and non-fiction literary pieces. These readings reflect a rich diversity and include works from Native American, African American, Asian American, and Hispanic authors. Two summer reading texts will be assigned in June.

Honors English 9 (ENG390)

Honors English 9 offers a more accelerated approach to the 9th grade Academic English program. Students are required to demonstrate skill in all areas of communication. Independent reading and research, along with creative and critical thinking, are integral components of the Honors

program. Summer reading will be assigned in June prior to the course.

Academic English 9 (ENG290)

Academic English 9 is a survey course offering an in-depth study of the short story, novel, epic poem, and drama forms of literature. Required readings include *Romeo and Juliet* and *The Odyssey*. Vocabulary development and composition skills receive great emphasis. Portfolios will highlight persuasive and narrative essays. Summer reading will be assigned in June prior to the course. Portfolio requirements include various forms of written expression.

English 9 (ENG190)

Students will be exposed to a multicultural approach to world literature focusing on the genres of the novel, short story, drama, and poetry. English 9 emphasizes developing writing skills in narrative, descriptive, and persuasive compositions. Summer reading will be assigned in June. Portfolio requirements include various forms of written expression.

Journalism/Newspaper (ENG213)

The Journalism/Newspaper course teaches a broad range of knowledge, attitudes, and skills related to journalism. Students will develop the mental and personal attributes necessary for communications careers, such as public relations, broadcasting, advertising, business writing and of course, newspaper writing. Students will also explore

other media such as radio and television, and define their roles in mass media. Particular emphasis is placed on critical thinking; interviewing skills; collecting and organizing information; writing clear and concise copy; and editing. Students may have their work published in the school's newspaper. Students taking the course a second time will refine their newsgathering and writing techniques. In addition, they will study copyediting, headline writing, and page design. All students are expected to be able to use several computer formats for word processing and page design.

Creative Writing (ENG221)

Creative Writing offers young writers the opportunity to experiment with various types of creative expression. Students are encouraged to publish their work. Many assignments will be composed in a computer lab. If possible, student writers will collaborate with another class on one major project. Students taking the course a second time will be encouraged to submit work for publication. As a result, writers will have more opportunities to gain recognition for their writing. This course also offers a chance to work on a full-length script or novel.

S.A.T. Preparation (SAT001, SAT002 with labs)

Do you have the S.A.T. blues? Take this course and feel more comfortable taking SAT's or any other standardized test. You will

employ strategies that will help to increase your reading comprehension and vocabulary recognition skills. All students taking this course must be currently enrolled in an 11th Grade Academic or Honors or English course.

Yearbook (ENG034)

Prerequisite: Sponsor's Approval and Computer Skills

One Semester

Yearbook provides students with the opportunity to put together a quality yearbook. Students work in many different areas including: advertising, sales, layout design, art, writing, and even typing. The advisor meets periodically with students to provide instruction and

guidelines. Grades are based on the student's ability to complete quality work within the framework of established deadlines. Frequently, this requires after school work.

Reading Enrichment

Reading Enrichment is designed to help students prepare for and perform well on the reading section of the PSSA (Pennsylvania System of School Assessment) and future Keystone exams. Standardized test data is used to determine placement in reading enrichment classes. These classes will provide differentiated instruction and opportunities for vocabulary enhancement, reading strategies, reading comprehension, and reading for enjoyment.

Family & Consumer Sciences Department

Grades	Course	Level	Periods/ Days	Credits
9 – 12	Crafts for Home Decoration	I	6/6	0.5
9 - 12	Clothing I	I	6/6	1.0
9 – 12	Food Preparation I	I	6/6	0.5
9 - 12	Advanced Foods and Nutrition	I	6/6	0.5
10 - 12	Clothing II	I	6/6	1.0
11 - 12	Clothing III	I	6/6	1.0
9 – 12	Independent Living	I	6/6	0.5
9 – 12	Interior Decorating	I	6/6	0.5
9 - 12	Parenting	I	6/6	0.5

Food Preparation I (HEC126)

This is a basic foods course designed to teach the fundamentals of proper food selection, preparation, planning, and storage. We will focus on such areas as nutrition, food budgeting, time management, consumerism, use and care, and careers related to the food industry. Students will have the opportunity to work in lab groups and prepare various foods. These foods will be evaluated by the students as well as the teacher.

Advanced Foods and Nutrition (HEC127)

Prerequisite: Food Preparation I

This is an advanced food course which has a multicultural, multiethnic emphasis. Students will be introduced to foods from around the world. They will be encouraged to share foods from their own cultures. Menus and meal planning techniques will be taught. Students will have the opportunity to work in lab groups and

prepare various foods. These foods will be evaluated by the students as well as the teacher.

Clothing I (HEC120)

This course will teach the fundamentals of clothing construction. Students will learn how to use basic commercial patterns to create clothing items that are practical and fashionable. Basic sewing terminology and machine operation will be taught. Students will be required to complete *several* clothing projects during the course. **Students will be responsible for purchasing all of the necessary supplies.**

Clothing II (HEC123)

Prerequisite: Clothing I

This course will teach more advanced methods of clothing construction. The use of more challenging fabrics and patterns will be expected. Projects selected by students may include dress wear, jackets, coats, sports

wear and children's clothing. Students will learn the use and care of the Serger sewing machine as well as how to use the basic sewing machine for decorative sewing. **Students will be responsible for purchasing all of the necessary supplies.**

Clothing III (HEC124)

Prerequisite: Clothing I & II

This course will teach specialized methods of sewing. Projects may include tailoring, evening wear, lined clothing, quilting, and costumes. Students will learn how to use a computerized sewing machine to create/decorate. **Students will be responsible for purchasing all of the necessary supplies.**

Interior Decorating (HEC136)

This course is for the student who is interested in designing/decorating a room, house, apartment, condo, townhouse or any living space. The elements and principles of design will be taught. The history of furniture as well as contemporary furniture will be explored. Floor plans will be used to demonstrate the use of proper lighting, color, floor and window treatments, and the placement of furniture. Student will be required to keep a design notebook.

Crafts for Home Decoration (HEC130)

Students will experience a variety of crafting techniques used for gift giving, preserving memories, creating hobbies, and for generating money-saving ideas. Projects may include memory books, stenciling, soft boxes, fabric painting, candy, soap and candle making, stamp art, designing cards and gift bags, pillows and seasonal projects. Students will need to purchase some of the necessary supplies.

Independent Living (HEC137)

This is a challenging course in which students explore the necessary skills needed for everyday survival. Focus will be on consumer skills, the family, relationships, finding a living space, goal setting, communications and decision making skills, budgeting, insurance, credit, banking, money management, health, food, nutrition, applying for a job and interviewing.

Parenting (HEC129)

This course will explore the life long decision to parent or not to parent. Various family structures will be studied. Relationships, careers, dating, marriage, divorce and death will be explored. Pregnancy and childbirth will be discussed. Students will be required to do a computerized baby simulation at the end of the course.

Foreign Language Department

It is strongly recommended that Academic students have three years of foreign language study in grades 9 through 12. Native language speakers should confer with the moderator of the department for proper level placement.

Grades	Course	Level	Periods/ Days	Credits
9 - 12	Spanish I	II	6/6	1.0
9 - 12	French I	II	6/6	1.0
9 - 12	Spanish II	II	6/6	1.0
9 - 12	French II	II	6/6	1.0
10 - 12	Spanish III	III	6/6	1.0
10 - 12	French III	III	6/6	1.0
11 - 12	Spanish IV	III	6/6	1.0
11 - 12	French IV	III	6/6	1.0
12	Spanish V	III	6/6	1.0
12	French V	III	6/6	1.0
12	Advanced Placement Spanish	IV	6/6	1.0
9 - 12	Country, Culture & Conversation (French)	I	6/6	1.0

Country, Culture & Conversation (French) (FRL101)

Paris is the number one tourist destination for Americans. In this class, we will explore the "City of Lights" and other popular tourist destinations. In addition to discussing the historical and cultural aspects of these places, we will practice some useful French phrases and simple conversations. We will use the Internet, film, books, and periodicals to enhance our knowledge of and familiarity with France. This course is open to all students, with or without previous study of the French language.

Spanish I (FRL203) French I (FRL201)

Prerequisite: Students should be concurrently enrolled in Academic or Honors English with a final grade of "C" or better from the previous year. Signature of Academic or Honors English teacher required.

Level I of foreign language introduces the student to the basic vocabulary, structure and cultural concepts of the language. The major emphasis is on understanding and speaking the language. Homework is given on a daily basis.

Spanish II (FRL204)
French II (FRL205)

Prerequisite: Students must have a final grade of a “C” or better in Level I in order to continue in Level II. Signature of Spanish I or French I teacher required.

Level II reviews the structures learned in Level I and introduces more vocabulary and structures. There is more emphasis on reading and writing than in Level I. Homework is assigned on a daily basis.

Spanish III (FRL303)
French III (FRL301)

Prerequisite: Students must have a final grade of a “C” or better to continue to Level III. Signature of Spanish II or French II teacher required.

Level III continues the program with the emphasis on the completion of the grammatical structures and being able to express thoughts more fluently in the language, both orally and in written form. Reading short stories is introduced. Students will write in essay format.

Spanish IV (FRL304)
French IV (FRL302)

Prerequisite: Students must have a final grade of “C” or better in Level III to continue to Level IV. Signature of Level III teacher required.

Level IV completes a four year sequence in the study of listening, speaking, reading and writing the language. Students should have an

understanding of the culture, and an appreciation and a familiarity with selections from the literature of the countries whose language is being studied.

Spanish V (FRL306)

Spanish V reviews the grammar sequence of Levels I – IV. Students are introduced to various literary genres and authors in Spanish. This course is designed for the student who plans to continue Spanish in college. While the curriculum is the same as in AP Spanish, the student is not expected to sit for the AP exam.

French V (FRL305)

French V reviews the grammar sequence of Levels I – IV. Emphasis is placed on speaking, writing, and reading.

Advanced Placement Spanish (FRL401)

AP Spanish Language is designed to parallel the skill development of a third-year college Spanish course in advanced composition and conversation. It encompasses aural/oral skills, reading comprehension, grammar, and composition.

Students must have the approval of their Spanish IV teacher or administrative approval to enroll in this course. Students should already have a basic knowledge of the language and culture of Spanish-speaking people and should have attained a reasonable proficiency in listening comprehension, speaking,

reading, and writing. Extensive practice in the organization and writing of compositions is an integral part of the course. Summer homework is assigned.

Students who successfully complete the AP Examination may earn college credit and/or placement. Students electing this course are expected to take the AP Spanish exam.

Information Technology Department

Grades	Course	Level	Periods/ Days	Credits
10 – 12	Accounting I	II	6/6	1.0
9 – 12	Advanced Microsoft Word Applications	II	6/6	0.5
9 – 12	Business Law I	II	6/6	0.5
9 – 12	Business Law II	II	6/6	0.5
10 – 12	Computer Games I (Alice/Flash)	II	6/6	0.5
10 – 12	Computer Games II (Flash/Game Making)	III	6/6	0.5
10 – 12	Computer Games Analyst I / II (assigned with instructor approval)	III	6/6	0.5
9 – 12	Desktop Publishing	II	6/6	0.5
10 – 12	Designing Animated Films	III	6/6	0.5
10 – 12	Starting Your Own Business (Honors)	III	6/6	0.5
10 – 12	International Business	II	6/6	0.5
9 – 12	Introduction to Business	I	6/6	0.5
9 – 12	Microsoft Office 2003 - 2007	II	6/6	0.5
10 – 12	Personal Finance	II	6/6	0.5
10 – 12	Sports and Entertainment Marketing	II	6/6	0.5
9 – 12	WEB Design 1 (HTML)	II	6/6	0.5
11 – 12	WEB Design II (Dreamweaver)	III	6/6	0.5

Accounting I (BUS205)

Prerequisite: B- or better in the previous year's math course

Accounting I presents the full accounting cycle from the beginning to the end, as it relates to a sole proprietorship. Students will explore the real world of business, including careers related to accounting, the value of assets, liabilities, and owner's equity. Students will prepare, interpret and analyze financial statements for service, merchandising, and manufacturing businesses using manual and computerized techniques.

This course is an especially valuable preparation for college bound students planning to major in business. These majors include management, marketing, finance, economics, business law, and accounting. This course also provides credentials necessary for employment in a professional office and specialized bookkeeping.

Advanced Microsoft Word Applications (BUS200)

This course will enhance the student's word processing skills using advanced applications of

Microsoft Word. Students will explore the different features of MS Word used in creating, storing, and editing business documents while developing a business vocabulary. Students will continue to develop their typing techniques while increasing their speed and accuracy skills using the MicroType 4/5 Computer Software Program and CheckPro software that incorporates the textbook instructions.

Business Law I (BUS204)

Interested in learning more about the law? Having a better understanding of the law can help you avoid legal conflicts in your personal and professional life. In this introductory law course we study and discuss crimes, torts, (civil lawsuits), our court system and the legal requirements for contracts. A great deal of time is spent discussing how the material studied pertains to everyday life skills.

Business Law II (BUS206)

This course is a continuation of studies begun in Business Law I. We will complete the study of contracts as they apply to individuals and businesses, continue onto the study of consumer legal issues (buying and selling a car, insurance, etc.), employment law, and marriage-related topics. A conscientious student may be able to enter this course and be successful without taking Business Law I. A mock trial

and a number of guest speakers will be included in the course.

Computer Games I (BUS202)

Prerequisite: B- or better in Algebra I

This course is for students who want to learn the basics of Flash to create short animations with sound, and ActionScript to animate buttons or objects for a game or a web page. Students will acquire the fundamentals necessary to continue on to Computer Games II where they can develop their own games. Students will learn to create 3D programs using Alice to create animation for story telling, playing an interactive game, or a video to share on the web. The ability to read, understand, follow directions and work independently is essential. Consistent attendance is a must! Basic computer knowledge and creativity are required.

Computer Games II (BUS302)

Prerequisite: B- or better in both Algebra I and Computer Games I

This course is for students who want to learn how to create dynamic and fun 2D games. The course starts with an overview of the Flash graphical user interface (GUI), including the four main components of the Flash authoring environment - the stage, timeline, tools and panels, and symbols. Once you are comfortable working with the basic tools, you'll learn ActionScript, the language used to write code in

Flash. ActionScript controls the graphics, sound files, and interactivity between the player and the game assets. As you work through the course you'll discover how to create a storyboard for a game, add animation and visual effects, insert movie clips and sound files, apply math and physics concepts to make game objects move, and develop and test a Flash game.

Computer Games Analyst I

Prerequisite: B- or better in Computer Games I and Instructor Approval

This course is for students who have successfully completed Computer Games I and would like to serve as technical lab assistants. Students should know the basics of Flash, Gamemaker, and Alice; and be able to actively assist in trouble-shooting other students' animations and or games. Students will create short clips of games and/or animations to assist other students in understanding a concept. This experience will both solidify fundamental knowledge and give students an invaluable experience that could be added to a resume or college application. The ability to read, understand, follow directions and work with others is essential. Consistent attendance is a must!

Computer Games Analyst II

Prerequisite: B- or better in Computer Games II and Instructor Approval

This course is for students who have successfully completed both Computer Games I and II and would like to serve as technical lab assistants. Students should know the basics of Flash Actionscript and advanced concepts in Gamemaker and be able to actively assist in trouble-shooting other students' animations and/or games. Students will create short scripts of games and/or animations to assist other students in understanding a concept. This experience will both solidify fundamental knowledge and give students an invaluable experience that could be added to a resume or college application. The ability to read, understand, follow directions and work with others is essential. Consistent attendance is a must!

Desktop Publishing (BUS215)

Learn how to design your own business cards, business letterheads, advertisements, posters, calendars, banners, brochures, and newsletters. The course will cover the advantages to desktop publishing, how to work with and select different fonts, the elements of good design, and the use of graphics. Students will also learn how to use other media in developing their presentations.

Students will develop the knowledge of software programs that are utilized in the everyday world of work. The software programs include but are not limited to: Microsoft Publisher, Microsoft Power Point, and Print Shop 15.0 EEV.

Designing Animated Films (BUS300)

Students in grades 10-12 will develop skills, knowledge and an appreciation of the video media and develop standards of judgment that apply both to their work and to the commercial media. Students will complete hands-on video production and post-production editing techniques. Students will be involved in activities such as planning each broadcast, gathering information for productions, interviewing, writing scripts, video taping, producing effective character generation, designing layouts and shots for television, and producing the final product by broadcast deadlines.

Basic computer knowledge and creativity is required. The ability to read, understand, follow directions and work independently is essential. Consistent attendance is a must!

Starting Your Own Business (Honors) (BUS301, BUS303 5x per cycle)

Have you ever thought about owning your own restaurant or health spa? Your own boutique or sporting goods store? An entrepreneur is a person who owns and operates his/her own business. Each year, thousands of people begin to build rewarding and profitable careers as entrepreneurs. Entrepreneurship is the best road to business opportunity and financial freedom!

Students will learn the step-by-step process to owning his/her own business. Students will select a product or service to sell, determine the target population of customers, learn how to market the business, research the acquisition of financial resources, manage employees and create a business plan.

International Business (BUS207)

There are many different reasons why today's students need to learn more about international business. Any large organization for which you work will have international operations or be affected by the global economy. Students will need to understand this increasingly important area to better assess career opportunities and to interact effectively with other managers. International Business consists of business transactions between parties from more than one country. Students will learn how international business differs from domestic business. Students will need to stay abreast of the latest business techniques and tools, because no single country has a monopoly on good ideas. As global cultures and political systems become even more intertwined, understanding and appreciating the similarities and differences of the world's peoples will become increasingly important.

Introduction to Business (BUS120)

Are you interested in working in the business world? Are you curious about what makes the business field

so exciting and challenging? This highly interactive “hands on” course will give you the basics you will need to know about the world of business. Units on money management, banking, credit, marketing, international business, and the effects of advertising and much more will be covered in this course.

Microsoft Office 2003/2007 (BUS208)

Microsoft Professional Office Suite is the most comprehensive applications program used in everyday operations of business and for personal use. The program includes MS Word, MS Excel, MS Power Point and MS Publisher. Each of the applications and utilities can be used separately or they can be integrated together to produce professional looking documents. Students using this package will produce everything from a simple letter to a sophisticated presentation project.

Personal Finance (BUS210)

How big are the financial challenges you face? How do most students finance the cost of college? How will you pay for your summer trip to Europe? Managing finances isn't a skill with which we are born. We must acquire the skills to deal with the unexpected. Personal Finance is a real-life simulation course that allows students to make decisions on the financial challenges he/she will face after graduating from high school or post-secondary education.

When we first attempt to understand the subject of personal finance, we are often intimidated by the vast number of investment, insurance, and estate planning options, as well as the “language” of finance. Students will develop an understanding of gross income, net income, charge accounts and credit cards, loans, and purchasing a new vehicle. Computer simulation programs about “Living on Your Own” (Metro City, Suburbia, Central City, and Middleton) will be utilized. Each virtual community has a different set of true-to-life jobs, incomes, prices, and expenses.

Sports and Entertainment Marketing (BUS209)

Sports and Entertainment Marketing is a specialized field that attracts ambitious, motivated individuals. Many colleges and universities offer degrees in this specialized field. This course will lay the groundwork for an exciting career in the fast-paced world of sports and entertainment marketing. Current industry information and insights will enhance students' knowledge of the complex world of entertainers and professional athletes. Students will learn the history of modern sports, discover the relationship between social change and the sports and entertainment industries and will gain an understanding of the legal and ethical issues associated with the field.

Careers for which students can gain employment include, but are not

limited to: Sports Marketing Manager, Entertainment Marketing Manager, Promotion and Marketing Coordinator, Director of Mobile and Entertainment Marketing, Entertainment Sales Executive, Sports and Licensing Account Manager.

WEB Design I (HTML) (BUS220)

If you have surfed the Internet, you undoubtedly have an idea of what Web pages are and have seen some of their capabilities and limitations. However, merely using the World Wide Web will not give you an understanding of how these pages are created. In this course, students will learn how to create multimedia-rich Web pages using HTML programming language. Students will explore and understand the World Wide Web and the fundamentals of web design. Students will plan the content, structure and layout of Web sites, create and edit pages enhanced with formatted text; build links between the pages and to the outside world; add color, backgrounds and graphics; build tables and forms.

Basic computer knowledge and creativity is required. The ability to read, understand, follow directions and work independently is essential. Consistent attendance is a must!

WEB Design II (Dreamweaver) (BUS304)

Prerequisite B- or better in Web Design I; or instructor approval

Are you interested in building professional looking Websites? In this course students will learn how to design, build, publish and maintain professional looking websites using the integrated software, *Macromedia Dreamweaver*. A background in HTML is essential to fully understand this industry standard software. Students will create attractive Web pages in Dreamweaver by adding links, images, tables, forms, templates and style sheets, layers, image maps and navigation bars.

The ability to be creative, read, understand, follow directions and work independently is essential. Consistent attendance is a must!

Mathematics Department

Four Typical Progressions in Math				
Level	9th Grade	10th Grade	11th Grade	12th Grade
Honors	Algebra II	Geometry	Trigonometry / PreCalculus and SAT Prep	Calculus or AP Calculus
Academic	Algebra I	Geometry (minimum "B" in Algebra I)	Algebra II and SAT Prep	Trigonometry/ PreCalculus
Alternate Academic	Algebra I	Algebra II (or Intermediate Algebra)	Geometry (or Intermediate Geometry) and SAT Prep	Algebra II or Algebra III
Alternate Academic	Intro to Algebra	Algebra I	Algebra II (or Intermediate Algebra) or Intermediate Geometry	Intermediate Geometry, Geometry or Algebra II
General	Intro to Algebra	Foundations of Algebra & Geometry B	Foundations of Algebra & Geometry C	Algebra I

Grades	Course	Level	Periods/ Days	Credits
9	Introduction To Algebra	I	6/6	1.0
9 -12	Algebra I	II	6/6	1.0
10-12	Intermediate Algebra	II	6/6	1.0
10	Foundations of Algebra and Geometry B	I	6/6	1.0
11-12	Foundations of Algebra and Geometry C	I	6/6	1.0
10 -12	Honors Geometry	III	6/6	1.0
10 -12	Academic Geometry	II	6/6	1.0
11-12	Intermediate Geometry	II	6/6	1.0
9 -12	Honors Algebra II	III	6/6	1.0
9 -12	Algebra II	II	6/6	1.0
11 - 12	Algebra 3	II	6/6	1.0
11 - 12	Trigonometry	III	6/6	0.5
11 – 12	Precalculus	III	6/6	0.5
12	Advanced Placement Calculus (AB Level)	IV	6/6	1.0
12	Calculus	III	6/6	1.0
9 – 12	Statistics	II	6/6	0.5
11 – 12	S.A.T. Preparation	N/A	6/6	0.5
9 -11	Math Enrichment	N/A	6/6	0.5

The minimum Academic/College Preparatory Program of Studies a student must successfully complete is Algebra I, Geometry, and Algebra II. Academic students are encouraged to take additional math courses, above and beyond minimum requirements. Students who have completed Algebra I, Algebra II, or Academic Geometry with a grade of C- or better should *not* be enrolled in Foundations of Algebra & Geometry B or C.

Introduction To Algebra (MTH191)

Prerequisite: Grade 8 teacher recommendation.

This course provides an introduction to basic Algebra. Topics include number properties and concepts, fractions, basic equations, inequalities, radicals, ratio, proportion, real numbers, and problem solving. Students are admitted to this course on the basis of teacher recommendation. Students who complete this course with an A or B or have a C and their math teacher's recommendation should schedule Algebra I for their next math course. Students earning a D or an F in this course should schedule Foundations of Algebra and Geometry B as their next math course.

Algebra I (MTH290)

Prerequisite: A or B in Introduction to Algebra *or* teacher recommendation and a C in Introduction to Algebra

This first year course in Algebra includes basic number properties, integers, linear equations, inequalities, factoring, rational expressions, coordinate geometry, systems of equations, functions, relations, and quadratic equations.

Problem solving and applications are stressed throughout all of the topics discussed.

Intermediate Algebra (MTH291)

Prerequisite: Completion of Algebra I with a grade of C- or lower

This course is a follow up of the first year course in Algebra and an introduction to beginning Algebra II topics. Topics covered are basic number properties, integers, linear equations, inequalities, factoring, rational expressions, coordinate geometry, systems of equations, functions, relations, factoring and quadratic equations. Problem solving and applications are stressed throughout all of the topics discussed. Students completing this course with a grade of B or better should schedule Algebra II as the next course in their math sequence.

Foundations of Algebra and Geometry B (MTH102)

Prerequisite: Introduction to Algebra with a grade lower than a C.

The purpose of this course is to further the development of the student's proficiency in general mathematics and to introduce the

student to basic algebra and geometry. Among the topics covered are the following: whole number theory, fractions, solving equations, applications of formulas, ratio, proportion and percent, integers and rational numbers, graphing in the coordinate plane, probability and statistics, and geometry. Problem solving and applications of the above topics will be emphasized throughout the course. Calculators and computer software will be utilized whenever appropriate.

Foundations of Algebra and Geometry C (MTH103)

Prerequisite: Foundations of Algebra and Geometry B.

This course is a continuation of Foundations of Algebra and Geometry B. This course focuses on fundamental concepts in Algebra and Geometry. Topics include: operations with integers, using formulas, solving equations in one variable, coordinate geometry and plotting points, finding slopes and graphing linear equations, use of algebraic inequalities, geometric terminology, geometric measurement, angles, parallel lines, triangles and the Pythagorean Theorem, and perimeter, area, and volume computations in two and three dimensions. Problem solving and applications of mathematics will be stressed throughout this course as will the use of calculators and computer software. Students completing this course with a grade of C or better should enroll in Algebra I for their next math course.

Honors Geometry (MTH310)

Prerequisite: Algebra I and Algebra II with grades of B or better.

Honors Geometry includes all of the material presented in Academic Geometry but with greater mathematical emphasis and sophistication. Additional topics covered in the course include analytic geometry with respect to distance, midpoints, circles, parallel and perpendicular lines, linear and quadratic equations, and systems of equations.

Academic Geometry (MTH203)

Prerequisite: Either: (1) a grade of B or better in Algebra I, or (2) a grade of C or better in Algebra II, or (3) the recommendation of the student's Algebra I or Algebra II math teacher.

This course includes the study of both plane and solid geometry from an inductive and deductive viewpoint. Topics include the following: undefined terms and basic definitions, axioms, postulates, theorems, properties, proofs, angle relationships, perpendicularity, parallelism, congruence, similarity, ratios and proportion, polygons, logic and conditional statements, right triangles, tangent, sine and cosine ratios, circles, areas, volumes, constructions, and loci. Instructional mathematics software is an integral component of this course and will be used to introduce and to reinforce pertinent geometric concepts.

**Intermediate Geometry
(MTH 204)** Grades 11-12 only

Prerequisite: Completion of Algebra 1 with a C or D or completion of Intermediate Algebra.

This course includes the study of both plane and solid geometry from an inductive and deductive viewpoint. This course focuses on both Measurement and Geometry topics that are described in the Pennsylvania Assessment Anchors. Topics include the following: undefined terms and basic definitions, axioms, postulates, theorems, properties, angle relationships, perpendicularity, parallelism, congruence, similarity, ratios and proportion, polygons, right triangles, Pythagorean Theorem and its converse, tangent, sine and cosine ratios, circles, perimeter and area of 2-dimensional figures, surface area and volume of 3-dimensional figures.

Honors Algebra II (MTH315)

Prerequisite: Algebra I in grade 8 with a B+ or better and recommendation of math teacher. Proficient or Advanced scores in the spring grade 8 Math 4-Sight test are strongly recommended.

Honors Algebra II includes all of the material presented in Algebra II but with greater emphasis on higher level topics. Additional topics include Quadratic functions and transformations and second degree equations. A graphing calculator is

required for all students enrolled in this course.

Algebra II (MTH202)

Prerequisite: Algebra I with a grade of C or better or math teacher recommendation.

This course is a continuation of Algebra I. The course reviews fundamental operations and introduces the student to the following topics: the real and complex number systems, simplification of radicals, exponents, polynomials, factoring, binomial theorem, remainder and factor theorems, linear equations, rational expressions, coordinate geometry, graphing, relations, functions, quadratic equations, systems of equations and inequalities, matrix operations, determinants, solving systems using matrices, and sequences and series. A graphing calculator is required for all students enrolled in this course.

Algebra III (MTH201)

Prerequisite: Algebra II and Geometry

This course is a continuation of second year Algebra. The major topics discussed are the following: a review of Algebra II, solving equations and inequalities, relations and functions, systems of equations, matrices and determinants, sequences, series, probability, exponential functions, logarithms, and an introduction to basic trigonometry. A graphing calculator

is required for all students enrolled in this course.

Trigonometry (MTH301)

Prerequisite: Geometry and Algebra II (Academic or Honors), with grades of C or better.

Students earning a B or better in both Geometry and Algebra II should enroll in Trig/Pre-Calculus. Students earning a C in either Geometry or Algebra II should take Trig/Statistics.

This subject is offered only during the Fall Semester to mathematically talented students. This course provides an in-depth treatment of the following topics: vectors, trigonometric functions of angles, solutions of right triangles, graphs of trigonometric functions, polar coordinates, complex numbers, quadratic functions, simplification of trigonometric expressions, fundamental relations and identities, and calculator computations. Emphasis is placed on applications of trigonometry to the fields of engineering and science. A graphing calculator is required for all students enrolled in this course.

Precalculus (MTH302)

Prerequisite: Trigonometry with a grade of C or better.

This subject is offered only during the Spring Semester. Included are the following topics: advanced algebraic equations, graphing and transformations, logarithmic and exponential functions, inverse

functions, polar coordinates, complex numbers and vectors, sequences and series, analytic geometry and conic sections, and an introduction to limits and derivatives of functions. A graphing calculator is required for this course.

Advanced Placement Calculus (AB Level) (MTH400)

Prerequisite: PreCalculus with a B or better *and* department approval.

Advanced Placement AB Calculus is a college-level course that is very demanding in terms of both the time required and the intensity of the curricular material. Topics include functions and graphs, limits and continuity, derivatives and applications of the derivative, curve sketching and min/max problems, antiderivatives and applications of antiderivatives, definite integrals, approximations to the definite integral and applications of the definite integral. It is required that all students enrolled in this course will take the Calculus AB exam at the end of this course. A graphing calculator will be required for all students enrolled in this course.

Calculus (MTH305)

Prerequisite: PreCalculus with a C or better & Department Approval.

Calculus with Analytic Geometry: This course is designed to introduce the student to calculus in order to establish a solid foundation for its further study at the collegiate level. Set theory, conic sections, functions,

limits, derivatives, applications of the derivative, curve plotting, integration, techniques of integration, applications of the definite integral, and polar coordinates are some of the topics presented. Since calculus presupposes knowledge of geometry, trigonometry, and advanced algebra, a thorough background in these subjects is essential. A graphing calculator is required for this course.

Statistics (MTH209)

Prerequisite: Completion of or concurrent enrollment in Algebra II.

This course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Topics include: organizing data, averages and variation, regression and correlation, elementary probability theory, the binomial probability distribution, normal distributions, introduction to sampling distributions and introduction to estimation. A graphing calculator is required for this course.

S.A.T. Math Preparation (SAT001, SAT002 with labs)

Prerequisite: Current enrollment in a Level II or Level III Math Course.

This course is designed to help students perform better on the mathematics section of the SAT (College Board Test). Students who plan on taking the SAT or who would like to improve their score on the math portion of that test should enroll

in this course. Topics will be covered from the areas of algebra, geometry, general math and mathematical reasoning. Students will practice taking multiple choice, timed math tests in order to improve their test taking ability as well as their mathematical skills. This course is designed to improve test-taking ability and to review previously taught math concepts.

Math Enrichment (MAT001, 002, 003)

This course is designed to help students prepare for and perform better on the mathematics section of the PSSA (Pennsylvania System of School Assessment) and future Keystone exams. Standardized test data is used for determining student enrollment in math enrichment classes. Student will be tested in five anchor areas:

- A. Numbers and Operations
- B. Measurement;
- C. Geometry;
- D. Algebraic Concepts
- E. Data Analysis and Probability

This course will emphasize test-taking skills as well as the five anchor areas.

Music Department

Grades	Course	Level	Periods / Days	Credits
9 – 12	Band (Full year or semester)	II	6/6	(MUS202) 1.0 (MUS201) 0.5
9 – 12	Chorus (Full year or semester)	II	6/6	(MUS211) 1.0 (MUS210) 0.5
9 – 12	Piano	II	6/6	0.5
9 – 12	Performing Arts I/II	II	6/6	0.5
9 – 12	Music Theory	III	6/6	1.0
10 – 12	AP Music Theory	IV	6/6	1.0
9 – 12	Music Exploration	I	6/6	0.5
9 – 12	Vocal Techniques	II	6/6	0.5
10 – 12	Advanced Vocal Techniques	II	6/6	0.5
9 – 12	Guitar	II	6/6	0.5

Band and Chorus may be elected each year in grades 9, 10, 11, and 12.

In addition, there are sequential Music Course offerings that students may elect in grades 9, 10, 11, and 12.

Music Department

Music Electives can be used to satisfy the humanities elective requirements for graduation. Every student is strongly encouraged to take advantage of the selection of music electives available. Students interested in pursuing music upon graduation should contact the Music Department to construct a concentrated course selection of music electives.

Band (MUS201) (MUS202)

The Chichester High School band is an excellent opportunity to develop instrumental skills and be a part of several of the school's fine performing ensembles. Participation in concerts is required during each semester. Concerts are held both during the school day and in the evening. Audition and pre-approval are required.

Skill Development:

1. Instrumental tone quality and technique
2. Introduction to band literature
3. Ensemble balance and technique

Chorus (MUS210) (MUS211)

The Chichester High School Chorus is an excellent opportunity to develop your individual vocal skills and be a

part of a fine performing ensemble. Participation in concerts is required during each semester. Concerts are held both during the school day and in the evening. Audition and pre-approval are required.

Skill Development:

1. Vocal quality and technique
2. Ensemble balance and performance
3. Basic music reading skills

Performing Arts I (MUS220)

This course is designed to develop your talents in voice, drama, and movement. Creative dramatics, mime, Broadway production numbers and stage performances before audiences are some of the requirements of the class.

Skill Development:

1. Stage performance
2. Vocal training
3. Stage production technique
4. Introduction to musical literature

Performing Arts II (MUS221)

Prerequisite: Performing Arts I and teacher signature

This course provides opportunities for public performance, workshops, and individual vocal acting instruction. Recommended for those who are interested in pursuing the performing arts upon graduation.

Skill Development:

1. Individual performance
2. Vocal training
3. Original material developed
4. Performance before an audience

Piano (MUS230)

This course is designed for students who wish to start and/or have a basic background in piano. There will be individual lessons, practice time, and theory providing all the fundamentals necessary to become proficient at the keyboard.

Skill Development:

1. Basic piano technique
2. Correct use of fingering
3. Basic music reading skills

Music Theory I (MUS310)

Prerequisite: One semester in band, chorus or piano or moderator's approval

This course is designed for the serious musician. It is the study of elements of music (melody, harmony, rhythm, meter and form) as well as sight singing and aurals. Students will learn basic compositional techniques while developing music reading and listening skills.

AP Music Theory (MUS410)

Prerequisite: One semester in band, chorus or piano.

This course integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, composition and to some extent, history and style. Musicianship skills such as dictation and other listening skills, sight singing, and keyboard harmony are also a part of this course. The student's ability to read and write

musical notation is fundamental as are basic performance skills in voice or on an instrument. Students electing this course must take the AP Music Theory Exam.

Music Exploration (MUS110)

Coffee drinking banned? Opera inspiring audience riots? Symphony orchestra versus jazz pianist? From sacbuts to swing – from patronage to revolution. Discover all this and more through the innovations and influences of music.

Vocal Techniques (MUS240)

This class is designed for those students interested in developing and/or improving their voices and music reading skills. Students will have training in sight singing, rhythm reading, tone production, proper classical singing technique, and healthy voice maintenance. Basic music literacy (understanding pitches, rhythmic values, meters, and key signatures) will be highly stressed as well as basic keyboard knowledge. Also included will be vocal coachings for English and Italian repertoire. Solo classroom performances are required. Other performance opportunities may be offered.

Advanced Vocal Techniques (MUS241)

Prerequisite: Vocal Techniques and teacher signature

This course is for the serious vocal student. All enrolled students are expected to know how to read music (including note names on the staff, basic rhythmic values, meters, and key signatures). Sight singing, proper singing technique, and healthy voice maintenance as well as continued study of music theory will be highly stressed. Repertoire may include art songs in English, Latin, Italian, German and French. Solo classroom performances are required. Other performance opportunities may be offered.

Guitar (MUS250)

Guitar class introduces the student to basic guitar technique and music reading skills. Individual and group instruction will be given on reading and playing chord progressions, melodic assignments, and lead sheets. Students will be evaluated through individual sessions and class recitals. Time is given in class for practice, so owning your own guitar is not required.

Physical Education Department

(Must Be Taken Each of Four Years)

Grades	Course	Level	Periods/ Days	Credits
9 - 10	PE 9 /10	I	6/6	0.5
11 – 12	PE 11 / 12	I	6/6	0.5
10 – 11	Health and Wellness	I	6/6	0.5
9 – 12	Adaptive PE	I	6/6	0.5
10 - 12	Contract PE	N/A		0.5

PE 9 / 10 (PEB101 / PEG101) (PEB / PEG102 opposite labs)

PE 11 & 12 (PEB103 / PEG103) (PEB / PEG105 opposite labs)

Provides instruction in team and individual physical activities in different sports areas related to the seasons. Improving fitness and teaching lifetime skills are goals for these courses. As per state mandate, AIDS education will be taught (in a classroom setting) in PE 9 & 10.

Health and Wellness (PED107, PED108 for honors science students)

Health is a graduation requirement for all students. Contents of this course include a study of mental, emotional and physical makeup of the individual and how he or she relates to the environment. Students will learn the facts concerning social problems such as drug abuse, alcohol, tobacco, and

community and family problems, which can affect personal health.

Adaptive PE (PED104)

Adaptive Physical Education is for students who, because of a temporary or permanent handicap, are unable to participate in the regular program.

Contract PE (PED125)

Prerequisite: Counselor Approval

Contract Physical Education is an independent study class for those students who cannot be scheduled into PE during their normal school day or for students needing to make up a failed course. Students will complete approved activities as per a signed contract.

Science Department

Recommended Course Sequence				
Level	9th Grade	10th Grade	11th Grade	12th Grade
Honors	Honors Biology	Honors Chemistry	Honors Physics, AP Biology, or AP Chemistry	Honors Physics, AP Biology, or AP Chemistry
Academic	Academic Science 9	Academic Biology	Academic Chemistry	Academic Physics
General	Science 9	Basic Biology I	Comprehensive Science or Basic Biology II	Elective

Grades	Course	Level	Periods / Days	Credits
9	Science 9	I	6/6	1.0
9	Academic Science 9	II	6/6	1.0
10	Biology I	I	6/6	1.0
11-12	Biology II	I	6/6	1.0
10	Academic Biology	II	6/6	1.0
11 - 12	Academic Biology II	II	6/6	1.0
9 - 10	Honors Biology	III	7/6	1.2
11 – 12	Advanced Biology	III	6/6	1.0
11 – 12	Advanced Placement Biology	IV	Double period 6 days	1.2
10 – 12	Academic Chemistry	II	6/6	1.0
10 - 11	Honors Chemistry	III	7/6	1.2
11 – 12	Academic Physics	II	6/6	1.0
11 – 12	Honors Physics	III	7/6	1.2
11 – 12	Comprehensive Science	I	6/6	1.0
11 – 12	Advanced Placement Chemistry	IV	Double period 6 days	1.2

Science 9 (SCI190)

A comprehensive survey course for basic students, which will use an integrated approach. The areas of Earth Science, Biology, Chemistry and Physical Science are used to synthesize students' backgrounds and strengthen their problem-solving skills.

Academic Science 9 (SCI290)

A course intended for academic students which utilizes a hands-on integrated approach. The areas of earth science, biology, chemistry, physical science and technology are developed to build students' backgrounds.

Biology I (SCI101)

A comprehensive course for basic students with exposure to the areas of cell biology, evolution, taxonomy, heredity and ecology. This course is a prerequisite for Basic Biology II.

Biology II (SCI105)

Prerequisite: Basic Biology I

This course may be selected by non-academic students to meet the requirements of three years of Science in the high school. Any student taking Basic Biology II must have successfully passed Basic Biology I. This course deals with human anatomy and physiology.

Academic Biology (SCI210)

Academic biology will emphasize the principles of biology including orientation to laboratory work, the microscopic world and disease, classification, cellular biology, evolution, heredity and behavior. Successful completion of the course will enable the student to take Academic Biology II or Advanced Biology.

Academic Biology II (SCI205)

Prerequisite: Successful completion of Academic Biology or teacher recommendation.

Academic Biology II is offered to students (grades 11-12) who have not met the prerequisite for chemistry, or choose to take Biology as an elective. The course emphasizes a systems approach to human biology, including anatomy and physiology, evolutionary origin, nutrition, disease, and our role in the environment.

Honors Biology (SCI310)

Prerequisite: Currently taking Algebra II or higher level Math course.

Honors Biology is a rigorous, lab oriented and research based course, geared for the highly motivated individual. Students will examine the most fundamental concepts in biology, including the study of genetics, microbiology, molecular biology, cell physiology and the unifying theme of evolution. Incoming freshman should give

Careful consideration to the demands of this course before enrollment.

Advanced Biology (SCI313)

Prerequisite: Approval of Department Head

An advanced course in biology for seniors who want an elective science that will provide them with challenges seldom offered in a high school course. Opportunities will be presented to design and carry out original experiments, master statistical analysis of data, investigate behavioral biology with live organisms, observe embryological development and learn the fundamentals of molecular biology. Adequate background in biology and chemistry are essential.

Advanced Placement Biology (SCI400)

Prerequisite: Approval of Department Head and successful completion of Algebra II, Honors Biology and Honors Chemistry with a minimum "B" average

Advanced Placement Biology is a very demanding course in both time and effort where the student is expected to perform college-level work. Successful students have a good chance of receiving advanced placement in Biology at the college of their choice. It is required that all students will take the AP exam at the completion of the course. The class will be limited in size and class rank may be used as qualifying criteria.

Academic Chemistry (SCI211)

Prerequisite: Successful completion of Algebra II or taking Algebra II concurrently.

Academic Chemistry is for the student who plans to go to college, but does not plan to major in science. The laboratory activities are frequent, integrated and inquiry-based. This course helps students develop the reasoning skills they will need to live in a science and technology driven world.

Honors Chemistry (SCI311)

Prerequisite: Successful completion of Algebra II with a "B" average.

Honors Chemistry is a modern, enriched, chemistry program which is designed to help students see how chemical principles and concepts are developed from experimental observations and data, and how these principles can be used to explain phenomena which are encountered in many daily activities as well as in the laboratory. This program is for those who plan to major in Science. It is especially intended for those who will study science, engineering, pharmacy, medicine, nursing, etc.

Academic Physics (SCI212)

Prerequisite: Successful completion of Algebra II

Did you ever wonder why the sky is blue? Physics explains the world around us. This course focuses on the concepts and ideas of physics placing less emphasis on the rigorous

problem solving associated with honors physics. This course is designed for a student who wishes to understand how and why and desires to “think and explain.” Laboratory experiences, demonstrations, class participation, and problem solving will be used to explore such topics as force, motion, energy, sound, light, heat, electricity and magnetism.

Honors Physics (SCI312)

Prerequisite: Successful completion of Algebra II, Honors Geometry, and concurrent Trigonometry

This course is for students who want to learn, desire a challenge, and want to have fun in the process! Physics explains the world around us. This course contains, but is not limited to the following topics: dynamics, kinematics, momentum, energy, optics, sound, and electricity and magnetism. Students are expected to work in teams to apply these topics/concepts in real life experiences through projects. There will be extensive use of algebra and trigonometry in problem solving.

Comprehensive Science (SCI103)

A course stressing the physical sciences for non-academic students. Topics include a review of earth and space science, household chemistry, environment, laboratory work with common equipment, heat, solids, liquids, gases and sound.

Advanced Placement Chemistry (SCI401)

Prerequisite: Approval of Department Head: Successful completion of Algebra II, Honors Biology and Honors Chemistry with a minimum “B” average and currently enrolled in Trigonometry and/or Pre-calculus.

Advanced Placement Chemistry is an extremely demanding course in both time and effort. Lessons and laboratory will be taught at the collegiate level. Successful students have a good chance of receiving advanced placement in Chemistry at the college of their choice. It is required that all students take the AP exam at the completion of the course. The class will be limited in size, and class rank may be used as qualifying criteria.

Social Studies Department

Recommended Course Sequence				
Level	9th Grade	10th Grade	11th Grade	12th Grade
AP	Honors World Cultures 9	Honors U.S. History 10	AP U.S. Government and Politics	AP United States History
Honors	Honors World Cultures 9	Honors U.S. History 10	Honors Government Studies	Elective
Academic	Academic World Cultures 9	Academic U.S. History 10	Academic Government Studies	Elective
General	World Cultures 9	U.S. History 10	Government Studies	Issues in America

Grades	Course	Level	Periods / Days	Credits
9	World Cultures 9	I, II, III	6/6	1.0
10	U.S. History 10	I, II, III	6/6	1.0
11	Government Studies	I, II, III	6/6	1.0
11	Advanced Placement U.S. Government And Politics	IV	6/6	1.0
12	Advanced Placement United States History	IV	6/6	1.0
12	Issues in America	I, II	6/6	1.0
12	Psychology	II, III	6/6	0.5
12	Sociology	II, III	6/6	0.5
11 – 12	European History I and II	II, III	6/6	0.5
11 – 12	Economics	II, III	6/6	0.5
11 - 12	The American Civil War	II, III	6/6	0.5
9 – 12	Government Studies - Close Up	N/A		

SOCIAL SCIENCES DEPARTMENT

In order to meet graduation requirements, all students must earn a total of three credits in Social Studies.

Core Subjects:

- 1 credit is offered in 9th grade World Cultures
- 1 credit is offered in 10th grade US History
- 1 credit is offered in 11th grade Government Studies
- 12th grade students are encouraged to choose electives. Some electives may be taken in the 11th grade in addition to Government Studies.

Core courses are offered at three levels: General, Academic, and Honors. General course numbers are 100's, academic course numbers are 200's and honors course numbers are 300's. Advanced Placement courses in Government & Politics and United States History are offered in eleventh and twelfth grades respectively.

Any student wishing to move from a General level course to an Academic level course must have achieved at least a "C" average in that General course. Any student wishing the move from a General level course to an Honors level course must have achieved at least a "B" average in that General course *and* have a teacher recommendation. Any student wishing to move from an Academic level course to an Honors level course must have achieved at least a "B" average in that Academic level course (and/or have a Teacher Recommendation).

World Cultures 9 (SOC190, SOC290, SOC390)

This course provides an introduction to geography, history, and cultures of the world and how they relate to one another. Students will study the significant events, people, and places and their interdependence from the year 1450 to the contemporary world. In this wide-ranging course, students will learn how the world and its inhabitants were shaped over time and came to represent the modern world today.

US History 10 (SOC116, SOC210, SOC310)

The 10th grade U.S. History course begins with a brief overview and analysis of the Civil War and, then, covers in detail a study of the Reconstruction through to the present. Topics will be studied in chronological order with emphasis placed on historical thematic connections focusing on the emergence of civil rights, comparative causes and effects of wars, the contributions of people to and throughout our nation, and the relationship of our country's geography to the development of U.S. History.

**Government Studies
(SOC117, SOC211, SOC311)**

The U.S. Constitution is the foundation and framework for this course in American government. The legislative, executive and judicial branches of government are studied in detail. Special emphasis is given to the application of constitutional law and focuses on the role of the U.S. Supreme Court and its relationship to the executive and legislative branches of government. Also included is an analysis of state and local government with civic responsibility as a major goal.

Advanced Placement United States History (SOC412)

Prerequisite: Approval of Department Head and successful completion of World Geography, U.S. History, & Government Studies (Academic or Honors level) with a minimum of a “B” average in all (3) courses.

This rigorous college-level course covers the Colonial era to the present beginning with an introductory unit on pre-colonial America. This chronological survey of our history emphasizes the Revolutionary period, Jeffersonian and Jacksonian Democracy, Civil War, the impact of Industrialism, Progressivism and the New Deal, and our emergence from isolation to involvement in world affairs and the major social movements of the 20th century.

Advanced Placement United States History is comparable to an

introductory college course; therefore, students selecting it should be highly motivated. Students will be expected to engage in outside reading for the course and to complete a self-designed research project. Students may qualify for college credit upon successful completion of the AP examination given in May. Students electing this course are required to take the AP United States History exam.

**Advanced Placement U.S. Government and Politics
(SOC413)**

Prerequisite: Approval of Department Head and successful completion of World Geography, & U.S. History (Academic or Honors level) with a minimum of a “B” average in both courses.

This year-long course is designed to give students a critical perspective on government and politics in our country. It involves the study of general concepts used to interpret American politics and an analysis of specific case studies. It deals with the Constitutional underpinnings of American democracy, Congress, the presidency, bureaucracy, the federal courts, political parties, interest groups, political beliefs and behaviors of individuals, and civil rights and liberties. Work in this course is of college level, including a major research project. Students may qualify for college credit upon successful completion of the AP examination given in May. Students electing this course are required to take the AP Government & Politics exam.

Issues In America (SOC118, 212)

A course on events for the new millennium. Topics are current events-based and utilize the newspaper, magazines, television, and the Internet to investigate the challenges, clashes and confrontations existing in America today.

Special features may include issues on elections; the stock market; educational issues (NCLB, charter schools, etc.); the role of the Internet in the workplace, schools, and home; global independency and interdependency; and "Who's Who?" (Who are the movers and shakers in the world?)

Psychology (SOC214, SOC312)

Students will study the answers to many important psychological questions. For example: How does your brain function? What happens when you sleep? How you learned to be anxious during tests? What does an IQ score mean? How does your personality change? What are abnormal behaviors? This course also discusses many techniques that psychologists have developed to deal with relatively common problems: how to improve study habits, reduce stress, treat phobias, improve memory, and reduce anger.

This course is designed to help you better understand your behaviors as well as those of others.

Sociology (SOC215, SOC313)

More than 5.5 billion people live on the planet we call Earth, in cities and across the countryside of the 190 nations. But imagine for a moment this vast world reduced to a microcosm -- a single village of 1,000 people. If we were to pay a visit to this "global village," we could quickly learn a great deal about our own, much larger world. Sociology is an exciting voyage of discovery, one that will help the student to develop a sociological imagination and the skills required to analyze the connections between individual actions and the larger social world.

European History I (SOC213, 314)

European History II (SOC223, 315)

A comprehensive study of European History divided into two semesters. European History I covers the period from the beginning of the Greek Civilization through Renaissance. European History II covers the period from Enlightenment to the present. Both courses are organized chronologically and theoretically stressing, political, social, intellectual, economic and interstate themes.

Understanding Economics (SOC230, SOC330)

This half year 0.5 credit course will help the student understand terms such as inflation, recession, and bull market. The Understanding Economics course will offer more than just definitions of economic terms. Students will develop an understanding of the nation's

economy and the roles that are played by government, business, and the individual (Macro & Microeconomics). Guest speakers, role-playing, and simulations are some of the activities of this course.

**The American Civil War
(SOC200, SOC300)**

The American Civil War was the worst political crisis and most bloody military conflict in the history of the United States. This course examines the military itinerary of the Civil War, its effects upon civilians, and the internal politics of the Union and the Confederacy. In addition, lessons from this course will include the emancipation of the slaves, the role of Abraham Lincoln, and the major political issues that set the stage for the Civil War. We then examine the goals of Reconstruction, black struggles and empowerment in the South, as well as the southern white resistance to racial equality. Finally, this course also considers how the Civil War and

Reconstruction have been depicted in film, literature, popular culture, and how different generations interpreted the meaning of these conflicts.

**Government Studies Program -
Close Up**

Students may participate in this program to increase their knowledge and understanding of National, State, and Local government structure and function. All program activities are supplemental to the Social Studies course offerings. A one-week seminar program in Washington D.C. is the primary program activity for 10th, 11th, and 12th grades. All other activities (such as teleconferences and trips to Harrisburg or Media, Delaware County) are open to all students. Although no credit is given, participation is recorded on your official transcript.

Special Education Department

There are three different Special Education Programs at the High School: Learning Support, Emotional Support, and Life Skills. In addition, regular education "Inclusion" classes will have both a regular education and special education teacher team-teaching students. Each special education student has a teacher assigned as his or her **case manager**. The responsibilities of a case manager include helping students select their courses, monitoring student progress and serving as a liaison between the student and the teachers of mainstreamed courses. A personalized program of studies will be planned for each individual student within the guidelines of the student's I.E.P. A Corrective Reading Program is offered based upon scores on a standardized decoding test. A Resource Room is available for extra help.

Enrichment Studies Program

The high school program is designed to offer the gifted student the opportunity to develop, excel at and apply their individual skills and talents. Each student's identified needs determine the level of intervention which may include regular education support and differentiation, honors and advanced placement classes, workshops, gifted seminars, competitions, shadow studies, mentorships and independent projects.

The gifted student may choose to participate in a seminar program to supplement regular classroom activities. The gifted facilitator will work with the classroom teacher to differentiate the curriculum and provide activities the classroom cannot offer. The student will be responsible for any missed work during seminars.

The main goal of the senior high gifted program is to encourage gifted students to challenge themselves and become self-motivated learners. It is also our desire that gifted students become producers of information and performers of artistic feats and services to society. The curricular framework for meeting the wide range of gifted needs and abilities include these essentials:

- Affective skills
- Leadership skills
- Communication skills
- Creative thinking skills
- Decision making skills
- Critical thinking skills
- Logical thinking skills
- Organization and management skills
- Research and independent study skills
- Specific content and career exploration

Technology Education Department

Grades	Course	Level	Periods / Days	Credits
9 – 12	Telecommunications Systems	I	6/6	0.5
9 – 12	Manufacturing Systems Technology	I	6/6	0.5
9 – 12	Construction Systems Technology	I	6/6	0.5
9 – 12	Energy and Power Technology	I	6/6	0.5
9 – 12	Transportation Technology	I	6/6	0.5
9 – 12	Graphics Communication Systems	I	6/6	0.5
9 – 12	Photography and Motion Pictures	I	6/6	0.5
9 – 12	Design Technology and Computer Aided Drawing (CAD)	II	6/6	0.5
9 – 12	Graphic Reproduction Systems	I	6/6	0.5

Technology Education - Mission Statement

Technology Education is designed to promote technological literacy by providing a balanced mix of theoretical, historical, and practical information. Our students, the citizens of tomorrow, are living in a society that is affected by constant technological change. Technology has provided our society with the products, machines and knowledge to meet its wants and needs, but with an accompanying negative impact on our environment and quality of living. Technology Education should help students develop technological literacy as well as enable them to acquire competencies in communication skills, problem-solving skills, manipulative skills and social interaction skills. We believe that every student should have the opportunity to have structured learning experiences in technology education and be required to demonstrate competency in the skills mentioned above.

Telecommunications Systems (TEC103)

Communications technology is part of each person's life. We use graphic and electronic means daily to send or receive information. These messages are carefully designed to inform us or to cause us to take action. Without communication technology we would know little about the world around us. Telecommunications will introduce you to types of equipment used to broadcast TV and radio programs, fiber optics, and other electronic methods of communication.

Manufacturing Systems Technology (TEC106)

In this course, students analyze the inputs, processes and outputs of manufacturing systems. Students will examine inputs (people, knowledge, materials, finance, and fixed capital) and their relationships to the production of goods and services. Students will also study robotics, computer aided manufacturing, and related areas. Students taking the course a second time will study woodworking and metalworking, as well as CAD/CAM/CNC.

Construction Systems Technology (TEC107)

Students will examine construction inputs (people, materials, knowledge, energy, fixed capital, and money), perform construction processes (structural design, structural analysis, structural

engineering, construction management, construction financing, and producing structures), and analyze construction outputs (structures, information, impacts), as well as the impact of construction on individuals, society, and the environment. Students taking the course a second time will concentrate on residential design.

Energy And Power Technology (TEC110)

Power and Energy Technology is designed to help students learn about the wide array of energy sources and how these sources are controlled to produce usable power. This course in power and energy technology requires the integration and reinforcement of basic skills and advanced concepts of science.

Transportation Technology (TEC111)

This course examines transportation in four environments (land, marine, air and space), the various modes, and the six technical systems (propulsion, control, suspension, guidance, structural and support). Past, present and future trends in transportation and the effect on life style and environment will be examined. After one semester of study, students will concentrate on the technical operation of the automotive gasoline engine. Automotive repair, maintenance procedures, tool selection, fuel injection, computerized ignition and fuel control will be investigated. A third semester will allow the student to gain further hands-on experience

in automotive repair, tire and lubrication services, suspension and brake repair, ignition and electrical system repair and drive train service.

Graphics Communication Systems (TEC102)

Graphic Communications Systems provides a study of the major industry of graphics. In graphic communications all messages are transmitted using printed images. We see and use examples of printed materials like books, magazines, poster, and T-shirts everyday. We also use drawings in order to communicate an idea or message. In addition to the drawings, lines, letters and symbols are also used. Graphic Communications Systems will introduce you to the major types of character generation used, as well as graphic design, photography and technical drawing.

Design Technology/CAD (TEC201)

Prerequisite: Graphic Communications Systems

Design Technology/CAD teaches the basic principles of drafting, geometric construction, isometric drawing, orthographic projection, oblique drawing, dimensioning and an introduction to computer-aided drafting (AutoCAD). Students will progress from two-dimensional drawing to three dimensional part development in model space. Students will create user-designed custom screen menus for individual use. AutoCAD software proficiency

will be taught through of a series of increasingly complex drafting assignments.

Photography and Motion Pictures (TEC133)

Prerequisite: Graphic Communications Systems

Photography & Motion Pictures continues the instruction of Graphic Communications Systems in the basic principles of photography. Areas of study will include cameras & film, photographic techniques, darkroom processes, motion pictures, animation and video applications. This course is recommended for all students who want to continue their studies in the area of photography.

Graphic Reproduction Systems (TEC130)

Prerequisite: Graphic Communications Systems

Graphic Reproduction Systems continues the instruction of Graphic Communications Systems in the basic principles of Graphics. Areas of study will include image generation using desktop publishing, image preparation and film conversion, image transfer through various printing methods and finishing the product. This course is recommended for all students who want to continue their studies in the area of communications.