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# DOVER

## HIGH SCHOOL

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### **PROGRAM OF STUDIES**

**2018-2019**

## **CAPITAL SCHOOL DISTRICT**

*Central Administrative Office  
198 Commerce Way  
Dover, Delaware 19904  
Telephone: 672-1500*

### **BOARD OF EDUCATION:**

*Sean P.M. Christiansen, President  
John C. Martin, Jr., Vice President  
Ralph L. Taylor, Jr.  
Dr. Chanda Jackson-Short  
Joan L. Engel*

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Business Manager: Mr. Adewunmi Kuforiji  
Director of Elementary Instruction: Ms. Pamela Herrera  
Director of Instruction 5-12: Mr. Paul Dunford  
Supervisor of Instruction 5-12: Mr. Gene Montano  
Director of Special Programs: Dr. Joyce Denman  
Supervisor of Student Support Services: Mrs. Tonya Guinn  
Supervisor of Transportation: Mr. Bruce Ashby  
Supervisor of Child Nutrition: Mr. James Trower  
Supervisor of Buildings & Grounds: Mr. Elliot Hardin*

The Capital School District does not discriminate in employment, educational programs, services or activities based on race, color, national origin, sex, age, or disability in accordance with state and federal law. The District offers additional services to students with limited English language skills or with disabilities so that they may benefit from these programs. For additional information and assistance, please contact:

<b>Special Programs</b>	<b>ADA Coordinator</b>	<b>Special Ed./Section 504</b>	<b>Sex Discrimination (Title IX)</b>
Dr. Courtney Principal Dover High School 1 Dover High Drive Dover, DE 19904 Tel: (302) 241-2400	Mr. Elliot Hardin Supervisor for Buildings/Grounds Capital School District 198 Commerce Way Dover, DE 19904 Tel: (302) 857-4210	Dr. Joyce Denman Supervisor of Special Education Capital School District 198 Commerce Way Dover, DE 19904 Tel: (302) 857- 4239	Mrs. Mary Cooke Supervisor for Human Resources Capital School District 198 Commerce Way Dover, DE 19904 Tel: (302) 857 - 4214

# Capital School District

DOVER HIGH SCHOOL  
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DOVER, DELAWARE 19904  
Telephone: (302) 241-2400  
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## ADMINISTRATION:

### Principal:

*Dr. Courtney Voshell*

### Associate Principals:

*Mr. Ron Berry*

*Mr. Tom Kalinowski*

*Dr. Tina Pinkett*

*Ms. Terri Sharpe*

*Mrs. Shawndell Solomon*

### Curricular/Department Leaders:

*Career Technology Education– Shameeka Chandler*

*English and Language Arts – Lisa Stevens*

*History and Social Sciences – Dianne Beck*

*Mathematics – Ann Devine*

*Sciences – Jason Bowen*

*Special Education – Joseph Fuller*

*World Languages – Oscar Gonzalez*

*Arts Academy – Brad Whitenight*

### Counselors:

*Mr. Chris McGuire A – E*

*Mrs. Takara Kellam F – K*

*Mrs. Shannon Gronau L – R*

*Mr. Avery Sherrod S – Z*

*Mrs. Melissa Tooles 9<sup>th</sup> Grade*

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## **PROGRAM OF STUDIES**

The Dover High Program of Studies guide is a resource that represents the current curricula, course offerings, and requirements of Dover High School. This catalog is designed to aid the students and their parents in making informed decisions concerning courses and programs. Each course selection should be part of an overall plan for the education and career goals of the student. All students must have a career pathway. Electives should be chosen, in sequence, to complete the pathway. All students should carry at least eight (8) credits. Students and parents should read this guide completely and carefully.

## **MISSION STATEMENT**

The mission of Dover High School is to inspire and guide students with the support of parents and the community to become productive and contributing citizens. As a fully inclusive school, we hold staff and students to high expectations and emphasize the development of positive attitudes and the acceptance of all people. Data analysis, research-based instructional strategies, and diverse and responsive program offerings provide our students with opportunities for academic excellence in a safe and welcoming school environment.

### **Special Recognitions**

<b><u>Special Recognitions</u></b>	
Advanced Placement Scholars AFJROTC Raiders All-State Band/Orchestra/Jazz Band All-State Chorus Best Buddies Business Professionals of America (BPA) DECA Marketing Organization Doverian Future Farmers of America (FFA) Family, Career & Community Leaders of America (FCCLA) French Club Future Teacher's Association Health Occupations Students of America (HOSA) History Club Interact Japanese Club Later Lotus Life Advisory Math League	MLK Scholars National French Honor Society National Honor Society Native American Club NCTE Writing Achievement Award Newsweek "Top Schools in Nation" Odyssey of the Mind (OM) Scholastic Art Award Science Olympiad Senator Newspaper Skills USA Spanish Club Speech & Debate Technology Student Association Thespian Society Twilight School Visual & Performing Arts for the Gifted (VPAG)



## **GUIDANCE INFORMATION**

Students will benefit most from their program if they establish goals early in their high school careers. We are asking freshmen to prepare a tentative four-year sequence of courses. To enable you to do this we have included below a four year course selection sheet. When planning your program, keep in mind graduation requirements as *well as your career goals*.

<b>Grade 09</b>		<b>Grade 10</b>		<b>Grade 11</b>		<b>Grade 12</b>	
	Credit		Credit		Credit		Credit
English 9	1	English 10	1	English 11	1	English 12	1
Math	1	Math	1	Math	1	Minimum Algebra II	1
Science	1	Science	1	Science	1	Science History/Social Science elective	
World History	1	Economics & Political Science	1/2 1/2	US History	1	Elective	
Phys. Ed	1/2	Phys. Ed	1/2				
Health	1/2	Driver's Ed	1/4				
		Individual & Dual Sports	1/4				
		World Language	1	World Language	1		
CTE/Pathway Elective	1	CTE/Pathway Elective	1	CTE/Pathway Elective	1	CTE/Pathway Elective/Coop	
<b>Total</b>	<b>8</b>	<b>Total</b>	<b>8</b>	<b>Total</b>	<b>8</b>	<b>Minimum</b>	<b>5</b>

If assistance is needed by parents or students, please feel free to call one of the following counselors. Students are assigned to a counselor by the first letter of their last name. Students last name beginning with:

A – E	Mr. McGuire	<a href="mailto:christopher.mcguire@capital.k12.de.us">christopher.mcguire@capital.k12.de.us</a>	302-241-2425
F – K	Mrs. Kellam	<a href="mailto:takara.kellam@capital.k12.de.us">takara.kellam@capital.k12.de.us</a>	302-241-2426
L – R	Mrs. Gronau	<a href="mailto:shannon.gronau@capital.k12.de.us">shannon.gronau@capital.k12.de.us</a>	302-241-2422
S – Z	Mr. Sherrod	<a href="mailto:avery.sherrod@capital.k12.de.us">avery.sherrod@capital.k12.de.us</a>	302-241-2421
9 <sup>th</sup> grade	Mrs. Tooles	<a href="mailto:Melissa.tooles@capital.k12.de.us">Melissa.tooles@capital.k12.de.us</a>	302-241-2467

## **REGISTERING FOR COURSES**

**Registration** - The Program of Studies is a resource to help students and their parents make good decisions concerning course selections for the coming year. **It is important that students, parents and counselors work together to ensure that the student's academic plan includes four full-years of challenging coursework that will lead them to their post high school goals.** From the courses students choose, the administration determines the master schedule of courses, the number of selections needed to accommodate the students' requests, the periods classes should be offered, etc. The master schedule of courses for the upcoming school year starting in the fall is generated from the students' requests made in the spring.

**Independent Study** - Independent Study is not appropriately conducive to teaching students in most subjects and due to credit hours of instruction required by the State of Delaware. To receive a high school credit the recommendation for an Independent Study will be to recommend the student take a correspondence course at the cost of the student, parent, or guardian.

**THE SELECTION OF A PARTICULAR COURSE DOES NOT GUARANTEE STUDENT PLACEMENT.** Every attempt will be made to honor all student requests. For example, a student may be academically ineligible for a course; a course may be over-subscribed (this often happens in R.O.T.C.); or a course may not be offered due to low enrollment.

## **POLICIES AND PROCEDURES FOR DROPPING/ADDING COURSES**

There are many factors that go into creating a master schedule that meets the academic needs of nearly 1800 DHS Senators. The course selections you make for next year, coupled with the grades and credits you earned in previous years, drive our efforts and decisions for staffing, purchasing materials for instruction, and determining class sizes. Only in the most unusual circumstances will a student be permitted to drop a course once the selection procedure has been completed.

- The last day to change a course request is **August 1, 2018**. The request must be turned into the guidance office. All course request changes should be communicated directly with your guidance counselor.
- The last day to drop/add a course is the **tenth day** of school within the academic semester. Drop/add forms are found in the guidance suite and should be given directly to your counselor.
- Change requests that lower an academic level (e.g. Honors to CP) will require a written request from a parent/guardian and a conference between your counselor and said parent/guardian. We would prefer this take place face-to-face, but a phone call could suffice in some circumstances.
- No student may drop an AP class without a conference to discuss the reason(s). This conference must include a parent/guardian, the counselor of record, and an administrator.



**Most schedule change requests will be limited to the following situation:**

1. A required course is missing.
2. Two subjects are scheduled for the same period.
3. An incorrect level has been scheduled.
4. A requested course has been canceled.
5. Course requires a pre-requisite

**A Low GPA, or the fear of a low GPA, is NOT a reason to drop a course**

**Transcripts -** A transcript is the official record of a student's high school record. It is available free of charge for current students from the guidance office. Please allow three to five working days. If a student is under the age of 18, a parent must sign a "Permission for Release of Information from Student Records" form.



## **COLLEGE AND CAREER PLANNING**



### **What should I do my FRESHMAN year?**

1. Make sure your course selections are preparing you for your future goals.
2. Consider taking Honors courses in your areas of strength.
3. Take school work seriously because 9th grade counts toward college admission.
4. Begin preparing for mastering reading, writing, and math skills tested on the PSAT and SAT.
5. Use your DHS Agenda Book to develop organization and time management skills.
6. Use the DHS "Teachers Homework pages". [www.doverhigh.capital.k12.de.us](http://www.doverhigh.capital.k12.de.us).
7. Develop good attendance habits.
8. Join service organizations at DHS and in the community that may expose you to new interests and possible careers.
9. Make contacts with people who are involved in careers that interest you.
10. Visit [www.collegeboard.org](http://www.collegeboard.org) and [www.doverhigh.capital.k12.de.us](http://www.doverhigh.capital.k12.de.us) and become familiar with the resources available there.
11. Research admission requirements for several different colleges and universities.
12. Investigate and participate in community service projects.
13. Become involved in clubs and/or sports at DHS.
14. Participate in volunteer activities to help build a well-rounded student resume.

### **What should I do my SOPHOMORE year?**

1. Review your course selections. Be sure they are preparing you for your future goals. *Take the most rigorous course you can.*
2. Be an active participant in clubs – consider leadership roles.
3. Continue working on volunteer hours for your student resume.
4. Continue working on mastering reading, writing, and math skills for the PSAT and SAT.
5. Pay close attention to courses that are required for admission to colleges you may be interested in attending.
6. Visit [www.act.org](http://www.act.org) and [www.collegeboard.com](http://www.collegeboard.com) on a regular basis.
7. Be certain to take the PSAT.
8. Begin to prepare a student résumé with community service hours, academic and athletic achievements.
9. Meet with college representatives when they visit DHS.
10. Maintain and improve your GPA.

### **What should I do my JUNIOR year?**

#### **In the FALL**

1. Be certain you are taking the courses you need to pursue the goals you have for after high school. Research the course work required by the school you wish to attend.
2. Be certain to take the PSAT in October.
3. Take as many AP/Dual Enrollment courses as you can and be successful. AP/Dual Enrollment courses give you an opportunity to earn college credits while you are still in high school. Colleges tend to look favorably upon those students who take a rigorous course of study.

4. Maintain and improve your GPA. Grades make a difference in whether or not you receive scholarships and grants.
5. Register to take ACT and SAT in the spring.
6. Request literature from colleges and universities.
7. Attend "College Nights" at DHS.
8. Attend a college/university fair in the area.
9. Register to take the ASVAB test. This test provides you with a free career evaluation as well as a practice in standardized testing. You will also be provided with information regarding job placement if you enter the military.

### **In the SPRING**

1. Take the ACT and SAT exams.
2. Update your résumé. Start to develop portfolios, audition tapes or writing samples if they are required for admission or scholarships.
3. Think about people who might write you a letter of recommendation.
4. Schedule visits to college campuses. Make appointments, especially if visiting during the summer.
5. Student athletes should register with the NCAA Clearinghouse; see your guidance counselor for information.
6. Check the guidance web page at <http://www.doverhigh.capital.k12.de.us/page/2463> for updated information and suggestions.
7. Plan on taking at least five courses your senior year, including four core academic courses. Consider taking a course at one of the local colleges.
8. Pursue summer programs, complete an internship, or work as a volunteer.

### **What should I do my SENIOR year?**

1. Review your course selections to be sure they are correct. Be sure you have all the courses required for graduation. Continue to challenge yourself.
2. Do not let "senioritis" set in! Colleges want to see strong academics in your senior year. Many universities can and will revoke acceptance letters to seniors if their 2<sup>nd</sup> semester classes are dropped.
3. Continue to evaluate and narrow college choices.
4. Take ACT and SAT or retake if necessary.
5. Take SAT Subject Tests if required by the school(s) you considering.
6. Prepare and submit application packages. Review deadlines and requirements, such as test scores, transcripts, essays, and recommendations. Give teachers, counselors, employers, and other adults at least two weeks to complete the recommendation letters and forms. Provide recommenders with addressed envelopes and tell them when you will pick up the materials.
7. Fill out required paperwork in the guidance office to release your transcript information.
8. Make sure your counselor has your résumé on file.
9. Keep track of deadlines (early decision, honors programs, regular, etc.) at colleges in which you have an interest.
10. Attend "College Nights" at DHS.

11. Attend a college/university fair in the area. Gather information required to fill out the FAFSA application.

### **In the FALL**

#### **College Entrance Exams**

The guidance department offers general registration information for these tests. Online registration is preferred. Students must register with the appropriate testing agency. Tests are given in various locations in the area, including DHS. The tests are given on Saturday mornings six to twelve times per year.

#### **ACT – American College Testing**

**Registration Options: Register early for first choice of test location.**

1. Online registration with a credit card: [www.act.org](http://www.act.org)
2. Some students may qualify for a “fee waiver.” Check with your counselor.

#### **SAT – Scholastic Aptitude Test**

**Registration Options: Register early for first choice of test location.**

1. Online registration with a credit card: [www.collegeboard.com](http://www.collegeboard.com)
2. Some students may qualify for a “fee waiver.” Check with counselor.

### **In the SPRING**

1. After January 1<sup>st</sup> file the FAFSA (Free Application for Federal Student Aid).
2. Request your transcripts to be sent again to all colleges to which you are applying.
3. Monitor all applications to make sure all materials are sent on time.
4. Wait for college admissions decisions and financial aid award letters. Many schools have a May deadline to accept or decline offer of admission.
5. Apply for housing if you plan to live on campus. Watch for deadlines.

## **DUAL ENROLLMENT OPPORTUNITIES**

Dover High School students have several opportunities to enroll in dual credit courses for which they may receive credit toward high school graduation as well as credit at the postsecondary level. In some instances, students may be simultaneously registered in the Capital School District as well as at a postsecondary institution (dual enrollment).

All Dover High School students shall be informed of opportunities for dual enrollment and the awarding of dual credit. Student eligibility shall be determined through articulation agreements between the District and the postsecondary institution(s). Information about dual enrollment and dual credit opportunities, including eligibility requirements, shall be printed annually in the course selection guide (Program of Studies) and available at any time in the high school guidance office.

All eligible students shall have multiple points of access for dual credit and dual enrollment courses including, but not limited to, courses offered on the Dover High School campus, courses offered on a postsecondary institution campus, courses offered online, or a combination of any of the above according to the articulation agreement(s). Additionally, Juniors and seniors are

eligible to take free courses through Delaware State University and Wesley College. Information should be requested from the student's counselor for prerequisite.

No eligible student shall be denied access to dual credit or dual enrollment courses because of the student's or family's inability to pay. Funding sources such as Tech Prep, College Board fee waivers or other grants shall be identified, as well as the procedures for applying and the procedures for awarding of such funds or waivers. This information shall be printed annually in the course selection guide and available at any time in the high school guidance office.

All courses for which dual credit is awarded through an accredited postsecondary institution shall be taught by an approved dual credit instructor and shall incorporate any applicable state content standards. The awarding of high school credit shall require the prior approval of the high school principal or the principal's designee.

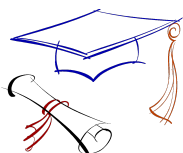
Students electing to participate in dual enrollment or dual credit opportunities shall include such participation in their Student Success Plans, as required in 14 DE Admin. Code 505. Students' high school transcripts shall indicate any dual enrollment courses taken and any courses for which dual credit has been granted.

## **EARN COLLEGE CREDIT WHILE STILL IN HIGH SCHOOL**

- 1. Dual Enrollment Options:** Seniors - pass the course with an 80% or better and you will earn DHS credit as well as college credit!
  - o **Delaware Technical and Community College:**
    - BIO 120 (Anatomy & Physiology)
      - To be eligible for the course students must have an SAT verbal score of 475 or higher OR an Accuplacer reading score of 078 and Accuplacer writing score of 084. For more information see page 38.
    - Manufacturing Pathway (**off campus classes for Juniors**)
      - There are two manufacturing pathways: Production Technician and Logistics Technician. Both pathways start with the same course: Principles of Manufacturing which is only available beginning in students' junior year. This is a four course, two year pathway in which Dover High School students will take classes at the Delaware Technical and Community College Terry Campus in Dover. Transportation will be provided for classes.
  - o **Wilmington University:**
    - ELA 121 (English Composition 1)
      - To be eligible for the course students must have an SAT reading score of 450 or higher OR an Accuplacer score of 500. For more information see page 25.
    - ECE 201 – Health, Safety and Nutrition
      - No Accuplacer score requirements.
    - ECE 217 – Family, Community and School Partnerships
      - No Accuplacer score requirements.

2. **Take a Tech Prep Course at Dover High School** - Pass the course with an 85% or better then enroll at one of the partnering institutions. Apply the credit that you earned while in high school to save you money as you get a head start in college! For a list of the participating colleges and universities and obtain more information go to: <http://www.techprepdelaware.org/>.
3. **Take a course at Delaware State University or Wesley College** - Juniors and Seniors with a cumulative GPA of a B or better who have taken the PSAT or SAT can avail themselves of this opportunity, off campus. The course itself is free, but you must pay the registration fee and the cost of the book. We recommend that you enroll in basic college courses, ones that would transfer to most colleges or universities. Juniors would have to enroll in courses after the school day. Seniors could possibly work their high school schedule around the college course.
4. **Request for early admission to Delaware Technical & Community College** - Juniors and Seniors may avail themselves of this option. You must pay full tuition for the course and obtain your guidance counselor's approval.
5. **Take a CLEP test at Delaware State University** - Save time and money and register to take a CLEP test at Delaware State University. There are 34 exams in various subject areas. Each test can earn you from 3 to 12 college credits. The cost of the exam is a fraction of the tuition for a college course. You must check with the college or university in which you plan to enroll to see if they accept CLEP credits. You can review the list of CLEP tests available by going to [www.collegeboard.com/clep](http://www.collegeboard.com/clep).
6. **Take an AP\* class and the AP Exam\*** - If you earn a score of a 3 or better on the exam and if the college or university in which you enroll accepts the exam for the equivalent course you earn up to 3 college credits for each AP course you take!

**\*Talk to your counselor to get more information!**



## **GRADUATION CREDIT REQUIREMENTS**



<b>What?</b>	<b>Credits Required</b>	<b>Comment</b>
English Language Arts	4	One English credit each year
History and Social Sciences	3	
Mathematics	4	One math credit each year attaining at least Algebra 2 or equivalent course
Science	3	
World Language	2	Two sequential years in the same language
<b>Supporting Coursework</b>		
Physical Education	1	

Health	$\frac{1}{2}$	
<b>Career Pathways</b>	3 - 4	
<b>Additional Coursework</b>	$3\frac{1}{2}$ - $4\frac{1}{2}$	
<b>Total Units of Credit Needed</b>	24	

**Grading Policy:** **A** = 100-90    **B** = 89-80    **C** = 79-70    **D** = 69-60    **F** = 59 or below

**Grade Point Averages** - Dover High School offers courses in many different subjects and levels of difficulty. In computing grade point averages, we take the level of difficulty of a course into account by assigning a quality point weighting factor to each course. Each course grade is multiplied by the quality point weighting factor for that course and the credit of the course. This process is done for each course and the sum of these products is calculated. The grade point average (GPA) is found by dividing this sum by the total number of credits attempted. For more information contact your guidance counselor.



## **WEIGHTED GRADE CALCULATION**

Grades at DHS are weighted according to the course level. A variety of levels are offered in an attempt to provide students the opportunity to be successful in their educational experience. **It is important that students, parents and counselors work together to ensure that the student's academic plan includes four full-years of challenging coursework that will lead them to their post high school goals.**

### **Level 0**

Ability:

Emphasis:

Study beyond class:

Career goal:

### **Co-op/Non-Academic Courses**

General to average

Fundamentals plus encouragement of independent work style and analytical thinking

Some work daily

To pursue a career immediately after high school

**1.00 quality pts.**

### **Level 1**

Ability:

Emphasis:

Study beyond class:

Career goal:

### **College Preparatory**

Average to above average

In-depth study, problem solving and analysis; some sustained projects; much independent work

Significant amount daily

To enter a two or four-year college after high school or to combine a career and a part-time college program

**1.03 quality pts.**

### **Level 2**

Ability:

Emphasis:

Study beyond class:

Career goal:

### **Honors**

Superior

In-depth study; problem solving and analysis; many sustained projects; extensive independent work

Extensive amount daily

To enter college after high school

**1.05 quality pts.**

**Level 3**

Ability:

Emphasis:

Study beyond class:

Career goal:

**Advanced Placement/Dual Enrollment\* 1.07 quality pts.**

Superior – most courses come with a pre-requisite. Check listing.

College level study; advanced problem solving and analysis;

Many sustained projects; dominantly independent work

Extensive amount daily

To enter college after high school, having already experienced college level work

**All AP students are expected to take the AP exam. Financial aid is available.**

**Class Rank** - Rank in class is based upon the student's cumulative weighted grade point average beginning with the ninth grade. All students are included in the ranking. The rank is computed by including the grades for all subjects passed and failed.

**Class Placement** - Class placement is determined once a year after the completion of courses during the academic year and summer school. Class placement is not altered during the school year, other than for errors and omissions.

**Class of 2021-** In order to enter the 10th grade, the student must successfully complete **6 credits** which must include the following: 1 credit in English; 1 credit in Math, and 1 credit in Social Sciences and/or Science

**Class of 2020** - In order for a student to enter the 11th grade, the student must successfully complete **11 Credit** which must include the following:

1. Two credits in English
2. Two credits in Math
3. One credit in Social Sciences and/or Science

**Class of 2019** - In order for a student to enter the 12th grade, the student must successfully complete **16 credits** which must include the following:

1. Three credits in English
2. Three credits in Math
3. Two credits in History and Social Sciences
4. Two credits in Science
5. Half credit in Physical Education
6. One credit in World Language

**\* All college courses, tutoring, correspondence, and individual projects required for graduation must be completed by May 18, 2019.**



## **ADVANCED PLACEMENT (AP) PROGRAM**

### **What is AP?**

AP is a program of studies of study which provides students the opportunity to study college-level courses, and potentially earn college credits, while still in high school. AP isn't just for top students or those headed for college. At Dover High School, the AP Program is open enrollment. That means that anyone with an interest and a desire to be challenged and to be better prepared for life after high school is encouraged to participate. Areas of study include art, history, languages, math, science, and many more. And we are expanding our offerings regularly. AP offerings begin in the tenth grade.

### **Who should take AP?**

You should consider taking an AP course or two before you graduate if:

- You have a healthy curiosity about a particular subject and are willing to work hard.
- You want to improve your chances of getting into college.
- You want to earn college credit while still in high school (by scoring well on the AP exam(s) in May).
- You want to save money on college tuition.
- If you want to be challenged to realize how much you can accomplish if you put your mind to it.

### **What is expected when taking an AP course?**

- An AP student is **required to take the appropriate AP Exam in May**. Financial aid is available at a variety of levels depending on student's needs and qualifications.
- An AP student must have a willingness to work hard and rise to a challenge.
- An AP student must have a high degree of interest and motivation in the subject area.

### **AP COURSE OFFERINGS AT DOVER HIGH SCHOOL**

\*Courses will run based upon student request\*

#### **English**

AP English Language and Composition  
AP English Literature and Composition

#### **Science**

AP Biology  
AP Chemistry  
AP Physics  
AP Environmental

#### **Other**

AP Computer Science\*

#### **Math**

AP Calculus  
AP Statistics

#### **World Languages**

AP French  
AP Spanish

#### **Fine Arts**

AP Studio Art – Drawing  
AP Studio Art – 2D  
AP Studio Art - 3D Design  
AP Music Theory

#### **History**

AP US History  
AP US Government and Politics  
AP Comparative Government and Politics  
AP European History  
AP Human Geography  
AP Psychology  
AP Microeconomics\*  
AP Macroeconomics\*

\* (online independent study)

## NCAA ELIGIBILITY FOR ATHLETES



The high school athlete should begin early to consider her or his choice of a college or university for the unique experience of combining education with athletics at the collegiate level. Some 360,000 student athletes participate each year from the many millions enrolled in America's colleges. There are over 100 NCAA member institutions with a wide range of athletically related financial aid.

- o The NCAA has a matrix of required GPA and SAT/ACT scores

<b>Division I</b>	<b>Division II</b>
<ul style="list-style-type: none"> <li>o Students with 2.3 GPA must score 900 on SAT or a combined score of an 75 on ACT</li> <li>o Students with 2.5 GPA must score 820 on SAT or a combined score of a 68 on ACT</li> <li>o Students with 3.0 GPA must score 620 on SAT or a combined score of a 52 on ACT</li> </ul>	<ul style="list-style-type: none"> <li>o No sliding scale for GPA</li> <li>o Earn a core course GPA of at least 2.0</li> <li>o 820 SAT score or a combined score of a 68 on the ACT</li> </ul>

For additional information see [www.eligibilitycenter.org](http://www.eligibilitycenter.org). Students must complete 16 core credits.

### NCAA CLEARINGHOUSE APPROVED COURSES AT DHS

<b><u>ENGLISH</u></b>	<b><u>MATHEMATICS</u></b>	<b><u>SOCIAL SCIENCES</u></b>
ENGLISH 9 CP	ALGEBRA 1 CP	CIVIL LAW
ENGLISH 9 H	ALGEBRA 1 H	CIVIL WAR
ENGLISH 10 CP	GEOMETRY CP	CONSTITUTIONAL LAW
ENGLISH 10 H	GEOMETRY H	CRIMINAL JUSTICE
ENGLISH 11 CP	ALGEBRA 2 CP	ECONOMICS
ENGLISH 11 H	ALGEBRA 2 H	NON-WESTERN WORLD
ENGLISH 12 CP	ALGEBRA 3 CP	POLITICAL SCIENCE
AP ENGLISH LITERATURE & COMPOSITION	PRE-CALCULUS	PSYCHOLOGY
AP ENGLISH LANGUAGE & COMPOSITION	PRE-CALCULUS H	SOCIOLOGY
<b><u>SCIENCE</u></b>	AP STATISTICS	US HISTORY
ANATOMY & PHYSIOLOGY	AP CALCULUS	WORLD HISTORY
BIOLOGY/AP		WORLD HISTORY/H
BIOLOGY CP	<b><u>LANGUAGES</u></b>	WORLD WAR II
BIOLOGY/H	FRENCH 1	AP COMPARATIVE GOVERNMENT
CHEMISTRY/AP	FRENCH 2	AP EUROPEAN HISTORY
CHEMISTRY CP	FRENCH 3	AP HUMAN GEOGRAPHY
CHEMISTRY/H	FRENCH 4	AP MACROECONOMICS
ECOLOGY CP	AP FRENCH	AP MICROECONOMICS
FORENSICS	SPANISH 1	AP PSYCHOLOGY
PHYSICAL SCIENCE/CP	SPANISH 2	AP US GOVERNMENT AND POLITICS
PHYSICAL SCIENCE/H	SPANISH 3	AP US HISTORY
PHYSICS/AP	AP SPANISH	
PHYSICS/H		

**THE FOLLOWING COLLEGES AND UNIVERSITIES HAVE ADMITTED GRADUATES**  
**OF DOVER HIGH SCHOOL**

The following are the colleges and universities admitting members of the Dover High School Class of 2017.

Albright College  
Brigham Young University  
Cabrini University  
Clark Atlanta University  
Clemson University  
College Of Charleston  
College of William and Mary  
Delaware State University  
Delaware Technical & Community College  
Drexel University  
Florida A&M University  
Goldey-Beacom College  
Hampton University  
Howard Community College  
Howard University  
Iowa Lakes Community College  
Jacksonville University  
Johnson & Wales University  
Kean University  
LaSalle University  
Lebanon Valley College  
Liberty University  
Lipscomb University  
Marymount University  
Mercyhurst University  
Morgan State University  
Morehouse University  
North Carolina A&T University  
Northeastern University  
Ohio State University  
Pace University

Penn State University  
Pittsburgh Technical Institute  
Rowan University  
Saint Joseph's University  
Salisbury University  
Southern Virginia University  
Spelman College  
St. John's University  
Stevenson University  
Swarthmore College  
Temple University  
Tulane University  
University of Alabama  
University of Chicago  
University of Colorado  
University of Delaware  
University of Maryland - Baltimore  
University of Maryland Eastern Shore  
University of Massachusetts  
University of Richmond  
University of Tampa  
University of The Arts  
Villanova University  
Virginia State University  
Virginia Union University  
Virginia Wesleyan College  
Washington College  
Wesley College  
West Chester University  
West Virginia University  
Widener University  
Wilmington University



## **DAYLIGHT/TWILIGHT PROGRAM**

The Dover High School Daylight and Twilight Programs primarily support students at-risk for not graduating with their peers who are 17 years old or older and/or are behind grade level. The programs are designed as a credit recovery avenue. Students have the opportunity to take courses correlated with state standards in the areas of math, English, science, history/social sciences, and art electives. Daylight and Twilight Programs use the PLATO® computer software developed by Edmentum to help students gain information and products to earn credits in the courses they need for graduation. A certified teacher supports the students in the programs through academic assistance, promoting responsible decision making and coping skills, and building self-discipline. All courses are taken online, and preference for entry into the programs is given to students in the current year's graduation cohort.

The Dover High School Daylight Program is designed as a dropout prevention program to assist students with credit recovery while still attending school during the day. Guidance Counselors, Administrators, and the Daylight Program Instructor will design individual schedules for the 25-30 students in the program. Student schedules range from taking classes for one period to all day. In the Dover High School Twilight Program, students may take classes Monday through Thursday with three sessions (M/W or T/TH or M-TH) from 2:30-5:00. A meeting, scheduled with the student, parent and guidance counselor will start the process to evaluate the student's academic standing and eligibility for the program.

## **CURRICULAR PATHWAYS**



### **ACADEMIC**

<b><u>9<sup>th</sup> Grade</u></b>	<b><u>10<sup>th</sup> Grade</u></b>	<b><u>11<sup>th</sup> Grade</u></b>	<b><u>12<sup>th</sup> Grade</u></b>
Honors English 09	Honors English 10	Honors English 11 OR AP Language OR AP Literature	AP Language OR AP Literature OR ELA121 Dual Enrollment
Honors Algebra I	Honors Geometry	Honors Algebra II	Honors Pre-Calculus OR AP Statistics
Honors Algebra II	Honors Geometry	Honors Pre-Calculus	AP Statistics OR AP Calculus
Honors Physical Science	Honors Biology	Honors Chemistry OR AP Biology	AP Biology OR AP Chemistry OR Honors Physics
Honors Biology	Honors Chemistry	Honors Physics OR AP Biology OR AP Chemistry	AP Biology OR AP Chemistry OR AP Physics OR Dual Enrollment BIO120
Honors World History AP Human Geography	AP US Government OR AP Comparative Government	AP US History	AP European History or AP Human Geography or AP Psychology
World Language 1, 2	World Language 2, 3	World Language 3, 4	AP World Language

**AFJROTC can be a part of any pathway.**

**Elective Major** - World Language - Three years of a world language will be your career path.

**Career Possibilities** - Any job that requires a college degree



## **VISUAL & PERFORMING ARTS**



### **Elective Major**

**Music** - Band, Ensemble, Music Theory, Ear Training and Composition, AP Music Theory, Internship, Music Appreciation, Chorus, Select Ensemble

**Art** - Studio In Art, Drawing & Painting, Printmaking, Sculpture, AP Studio Art, Art Internship

**Drama/Communication** - Basic Theater/Advanced Theater, Speech & Debate, Journalism, Publications, Print Shop, Video Production.

**Dance** - Dance 2, Dance Company

## **ARTS ACADEMY**

### **Career Possibilities**

**Music** - band director, choral director, musician, conductor, teacher, professional singer, music production, music promotion, audio media, sound technology, equipment design, instrument repair design, audio engineering, music software development, music hardware development.

**Art** - interior design, advertising, historic preservation, fashion design, illustrator, art critic, teacher, textile industry, artist, gallery owner, art director

**Drama/Communication** - actor, politician, speech writer, political commentator, broadcast journalist, writer, newspaper columnist, editor, advertising agency, layout artist, press operator, media buyer, media specialist teacher

**Dance** - dance conductor, musical theater, teacher, dance studio owner, professional dancer, dance director

## **Tech Prep Delaware**

Tech Prep Delaware is a technical and academic post-secondary preparation program that allows 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade students to earn college credits while still in high school by using real-life work situations to teach technical skills. Tech Prep combines hands-on technical training and academics in a step-by-step format. Students in Level II courses are considered concentrators, while students in Level III courses are considered completers. Students are expected to complete a minimum of one pathway before graduation.

Dover High School currently offers articulated courses with the following post-secondary institutions: Delaware State University, University of Delaware, Delaware Technical Community College, Goldey-Beacom College, Wilmington University, and University of Northwestern Ohio, Adult Education Division.

Speak with your counselor or career technical education teacher for further information or you can visit [www.techprepdelaware.org](http://www.techprepdelaware.org) for more information.

## **TECHNOLOGY EDUCATION**



## **SKILLED & TECHNICAL SCIENCE**

<b>Architectural Engineering Technology</b>	<b>Heating, Ventilation, Air Conditioning and Refrigeration Technology/ Sheet Metal (HVAC)</b>
Students choosing this pathway will explore principles and techniques of drafting. Students will do free-hand sketching and progress to Rivet. Students will create three-dimensional details related to industry. Advanced manual drafting assignments will be required as well as construction drawing interpretation, material identification and use. Student will complete special projects and visit local businesses.	The HVACR pathway will provide students with the knowledge and skills necessary to repair and maintain a variety of cooling and heating systems. Students will explore the principles of sheet metal layout and processes, basic electricity, proper use of hand tools and construction safety. Students completing the HVACR/Sheet Metal pathway will be eligible to enroll in an HVAC related training apprenticeship after graduation.
<b>Pathway Map</b>	<b>Pathway Map</b>
Foundations of Technology	HVACR/Sheet Metal Technology I
Computer Aided Drafting II	HVACR/Sheet Metal Technology II
Computer Aided Drafting III: <b>Certiport Certification</b>	HVACR/Sheet Metal Technology III: <b>EPA Certification</b>
<b>Technology Education Co-op (opt)</b>	<b>HVACR/Sheet Metal Technology Co-op (opt)</b>
<b>Related Careers</b>	<b>Related Careers</b>
<i>Drafter</i>	Sheet Metal Worker
<i>Engineer</i>	Home Appliance Repairer
<i>Architect</i>	Maintenance and Repair Worker
<i>Surveyor</i>	Telecommunications Line Installer
<i>Commercial Designer</i>	Manager of Mechanics, Installers, and Repairers
<i>Construction Manager</i>	Plumbers, pipe layers, pipefitters & steamfitters
<i>Graphic Designer</i>	Electrician



## **BUSINESS, FINANCE, AND MARKETING**

<b>Marketing Management</b>	<b>Academy of Finance</b>
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<p>Students choosing this pathway will learn extensive marketing concepts, functions, and theories. Students will design advertisements, products, and window displays. Students will learn how companies utilize sales strategies and techniques to influence customer buying.</p>	<p>The National Academy Foundation's (NAF) Academy of Finance (AOF) program of study is a three (3) course Career and Technical Education (CTE) program that engages students with the world of financial services by focusing on banking and credit, financial planning, accounting, and insurance. Students gain career knowledge through a series of work-based learning activities that are conducted in school and outside of the classroom, and a 120-hour paid summer internship. Completion of the program is validated with a NAFTrack Certification, NAF's student certification assessment system. AOF courses introduce students to a wide array of careers such as personal financial advisor, tax preparation specialist, accountant, financial analyst, loan officer, account representative, insurance agent, and claims representative.</p> <p>Fundamentals of Finance (FOF) explores the foundation of financial literacy, the function of finance in society, and the role of a financial planner. FOF is a prerequisite to other Academy of Finance pathway courses. This course focuses on income and wealth, financial institutions, and the role of finance in organizations. Students research the impact of technology on the financial services field, explore the role of a financial planner and examine the importance of sound financial planning. An integrated culminating project provides an opportunity for students to demonstrate expertise on issues critical to financial independence.</p>
<p><b>Pathway Map</b></p>	<p><b>Pathway Map</b></p>
<p>Core Class</p>	<p>Fundamentals of Finance (FOF)</p>
<p>Marketing Management II</p>	<p>Principles of Accounting (POA)</p>
<p>Marketing Management III: <b>NOTCI Workplace Readiness Certification #3033</b></p>	<p>Financial Services (FS)</p>
<p>Early Career Exploration in Marketing &amp; Communication (Optional)</p>	
<p><b>Related Careers</b></p>	<p><b>Related Careers</b></p>
<p><i>Public Relations Specialist</i></p>	<p><i>Personal Financial Advisors</i></p>
<p><i>Buyer</i></p>	<p><i>Financial Analysts</i></p>
<p><i>Marketing Researcher</i></p>	<p><i>Credit Analysts</i></p>
<p><i>Editor</i></p>	<p><i>Accountants and Auditors</i></p>
<p><i>Research Analyst</i></p>	<p><i>Budget Analysts</i></p>
<p><i>Marketing Manager</i></p>	<p><i>Loan Officers</i></p>
<p><i>Advertising Manager</i></p>	<p><i>Insurance Underwriters</i></p>

**Articulated Pathway Partners: Wilmington University; Delaware Technical Community College; Goldey-Beacom College**

## **FAMILY AND CONSUMER SCIENCE**



<b>Culinary Arts (Specialized Technical Experience)</b>	<b>Early Childhood Education</b>
Students choosing this pathway will explore the techniques and skills used in the food industry. Students will study nutrition, practice safety and sanitation procedures, and demonstrate the proper use of cooking equipment. A laboratory equipped with kitchen appliances and kitchen tools will be used to prepare meals and complete classroom projects.	Students enrolled in this pathway will learn the theories related to early childhood. The classroom activities will provide students a practical approach to learn the material. Students will create children's books, complete projects, design classroom environments, and engage in out of classroom learning experiences. Technology will be integrated in class assignments and students will utilize art and theory to present models. Nutrition and health will be explored and students will prepare meals in the classroom's kitchen area.
<b>Pathway Map</b>	<b>Pathway Map</b>
Fundamentals of Culinary Arts & Hospitality	Human Growth & Development
Advanced Food Production & Hospitality Management	Early Child Education 2
The Culinary & Hospitality Professional Culinary Arts ( <b>ProStart Certification &amp; ServSafe Certification</b> )	Early Childhood Education 3: <b>TEC-E1 (Training for Early Care in Education) Certification, CPR/AED Certification</b>
Early Career Exploration Culinary & Hospitality	Early Childhood Education Coop
<b>Related Careers</b>	<b>Related Careers</b>
<i>Food Service Manager</i>	<i>Teacher</i>
<i>Chef</i>	<i>Social Worker</i>
<i>Head Cook</i>	<i>Psychologist</i>
<i>Planner</i>	<i>Athlete</i>
<i>Food &amp; Beverage Service Worker</i>	<i>Physician</i>
<i>Baker</i>	<i>Nurse</i>
<i>Food Artist</i>	<i>Early Childhood Education Specialist</i>
<i>Serving Supervisor</i>	<i>Pediatrician</i>
<i>Butcher/Meat Cutter</i>	

**Early Childhood Education Pathway Partners: Delaware Technical Community College; Wilmington University**

**K-12 Teacher Academy**



The Delaware K-12 Teacher Academy program of study is a three (3) course Career and Technical Education (CTE) program that engages students in developing a realistic understanding of teaching while exploring the importance and impact of teachers. Students will acquire the knowledge and skills needed to sustain their interest in the profession and cultivate the skills needed to be successful educators, thus creating a pipeline of high-quality students transitioning to the teaching profession. Students will understand the rigors of a career in education and participate in classroom and field experiences relevant to pursuing a degree in education. The program prepares students for a variety of careers in education such as elementary teacher, secondary teacher, paraprofessional, and special education teacher.

Foundations of Curriculum and Instruction (FCI) explores curriculum delivery models in response to the needs of the learner. Emphasis is placed on the development of a variety of instructional materials that promote learning and a supportive classroom environment. Students analyze the influence of technology and impact on learning. Students develop lesson plans and assessments while practicing appropriate classroom management techniques to maximize the learning process for every student.

### **Pathway Map**

Human Growth and Development  
Teaching as a Profession  
Foundations of Curriculum and Instruction

<b>Related Careers</b>	<b>Related Careers</b>
<i>Elementary Teacher</i>	<i>Classroom Paraprofessional</i>
<i>Secondary Teacher</i>	<i>Speech Therapist</i>
<i>Adult Literacy Teacher</i>	<i>School Counselor</i>
<i>Special Education Teacher</i>	<i>School Administrator</i>



## **AGRICULTURAL SCIENCE**

<b>Environmental Science</b>	<b>Animal Science</b>
This course of study provides students a variety of experiences in the fields of natural resources and ecology. Students explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. NRE includes the study of the natural world including biomes, land, air, water, energy, use and care as well as a focuses on issues surrounding man's interaction with the Earth. Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem.	Students choosing this pathway will study animal production including life processes, health, nutrition, genetics, management, and processing of through the study of small animals, aquaculture, livestock, dairy, horses, and/or poultry.

<b>Pathway Map</b>	<b>Pathway Map</b>
Natural Resources and Ecology	Animal Science I
Environmental II	Animal Science II
Environmental III (starting 2017):	Animal Science III/Vet Tech
<b>Pesticide Applicator License</b>	Animal Science/Vet Tech IV (opt)
AP Environmental Science (opt)	AP Environmental Science (opt)
	Early Career Exploration in Animal Science
<b>Related Careers</b>	<b>Related Careers</b>
<i>Environmental Control Officer</i>	<i>Veterinarian</i>
<i>Atmospheric Control Officer</i>	<i>Veterinarian Technician</i>
<i>Environmental Chemist</i>	<i>Park Ranger</i>
<i>Environmental Engineer</i>	<i>Animal Producer/Rancher</i>
<i>Environmental Protection Officer</i>	<i>USDA Inspector</i>
<i>Environmental Scientist</i>	<i>Agricultural Manager</i>
<i>Occupational Health and Safety Specialist</i>	<i>Animal Control Officer</i>
<i>Conservation Scientist &amp; Forester</i>	
<i>Material Scientist</i>	
<i>Physicists &amp; Astronomers</i>	
<i>Surveyor</i>	
<i>Agriculture &amp; Food Scientist</i>	

**Agri-science Pathway Partners (Tech Prep): Delaware State University; University of Delaware**



## **NURSE ASSISTING AND PATIENT CARE EDUCATION**

**Nursing and Patient Care Education Pathway** will introduce students to the fundamentals of working in the healthcare industry. Students will learn the function and interrelationships of body systems and medical terminology. Students will acquire knowledge and skills to function effectively in a lab and clinical environments as a certified nursing assistant. Students in this pathway will be required to participate in a clinical experience and take the **Delaware CNA certification test**. Students are required to successfully complete a criminal background check & pass a random drug screening.

### **Pathway Map**

Fundamentals of Health Science  
Essentials of Anatomy and Physiology  
Certified Nursing Assistant III

<b>Related Careers</b>	<b>Related Careers</b>
<i>Licensed Practical Nurse</i>	<i>Emergency Medical Technician</i>
<i>Registered Nurse</i>	<i>X-ray Technician</i>
<i>Medical Secretary</i>	<i>Radiologist</i>

<i>Physical Therapy Aide</i>	<i>Paramedic</i>
<i>Dentist</i>	<i>Phlebotomist</i>
<i>Doctor</i>	<i>Medical Assistant</i>
<i>Office Assistant</i>	<i>Lab Technician</i>
<i>Sports Trainer</i>	<i>Certified Nursing Assistant</i>

## **COMMUNICATION TECHNOLOGY**



**Communication Technology Pathway** will allow students the opportunity to explore and understand the creativity as well as technical skills in the area of graphic communication. Students will acquire the knowledge and skills to create professional level elements and demonstrate and apply technical skills in multiple media forms of communications. The pathway provides knowledge to interact with a client properly, and how to use Adobe products in order to create digital media.

### **Pathway Map**

Communication Technology I

Communication Technology II

Communication Technology III: **Microsoft Certification**

<b>Related Careers</b>	<b>Related Careers</b>
<i>News Analyst</i>	<i>Photographer</i>
<i>Market and Survey Researchers</i>	<i>Artist</i>
<i>Sales Representative</i>	<i>Drafter</i>
<i>Product Promoter</i>	<i>Author</i>
<i>Fashion Designer</i>	<i>Computer Software Engineer</i>

## **MANUFACTURING PATHWAY & DUAL ENROLLMENT**

There are two manufacturing pathways: Production Technician and Logistics Technician. Both pathways start with the same course: Principles of Manufacturing which is only available beginning in students' junior year. This is a four course, two year pathway in which Dover High School students will take classes at the Delaware Technical and Community College Terry Campus in Dover. Transportation will be provided for classes.

### **Manufacturing Production Technician**

Students who choose the **Manufacturing Production Technician** program of study is a two (2) year; four (4) semester CTE program that engages students in open-ended problem solving where they learn and apply manufacturing processes and use modern, industry-leading technology and software. The program prepares students for further education and careers in manufacturing production. The CTE program consists of four courses that are completed on the campus of the Delaware Technical Community College.

### **Pathway Map**

**Principles of Manufacturing**-Course 1

**Electrical Systems and Controls**-Course 2

**Fluid Power**-Course 3

**Electro-Mechanical Systems**-Course 4

**Certifications:**

Manufacturing Skill Standards Council, Certified Production Technician (CPT)  
 Advanced Manufacturing Skill Standards Council (AM/IST) Level I Certification Occupational Safety and Health Administration;  
 10-Hour Construction Safety Certification  
 Occupational Safety and Health Administration; 10 -Hour Construction Safety Certification  
 Occupational Safety and Health Administration; 3 Hour Safety Refresher Certification  
 Delaware Technical Community College Certification

**Dual Enrollment Courses:**

ELM130 – Industrial Electricity: 3 credits  
 ELM205 - Mechanisms & Design: 3 credits  
 ELC243 – Programmable Logic Controllers: 4 credits  
 ELC125 – Electrical Circuits I: 3 credits  
 MET115 – Mechanical Engineering Technology: 3 credits  
 ELC248 – Electro-Mechanical Systems: 4 credits

<b>Related Careers</b>	<b>Related Careers</b>
Electrical Equipment Installer/Repairer	Calibration Technician
Industrial Electronic Installer/Repairer/Manager	Maintenance Repairer
Industrial Machinery Mechanic	Automated Manufacturing Technician
Industrial Maintenance Electrician	Quality or Logistical or Design or Electronics Engineer
Industrial Maintenance Technician/Mechanic	Manufacturing or Mechanical Engineer

## **Manufacturing Logistics Technician**

Students who choose the **Manufacturing** Logistics Technician program of study is a two (2) year; four (4) semester Career & Technical Education (CTE) instructional program that engages students in open-ended problem solving where they learn and apply manufacturing processes and use modern, industry-leading technology and software. The program prepares students for further education and careers in manufacturing and logistics. The CTE program consists of four courses that are completed on the campus of the Delaware Technical Community College.

Paid work-based learning experiences or Craftsmanship Placements will be available to students upon successful completion of the MSS100 - Principles of Manufacturing and MSS101 - Manufacturing Quality, Safety, and Practices courses. Craftsmanship Placements will be organized and supported by the Delaware Manufactures Association and by the Delaware Technical Community College. The administration and supervision of the Craftsmanship Placements will be conducted by the participating local education agency, Delaware Technical Community College faculty, and the participating manufacturing supervisor(s).

### **Pathway Map**

**Principles of Manufacturing-Course 1**  
**Manufacturing Quality, Safety, and Practices-Course 2**  
**Manufacturing Processes and Production-Course 3**  
**Advanced Handling and Logistics -Course 4**

**Certifications:**

Manufacturing Skill Standards Council, Certified Logistics Associate (CLA)  
 Manufacturing Skill Standards Council, Certified Logistics Technician (CLT)  
 American Heart Association; First Aid CPR/AED Certification  
 American Society for Quality ; Lean Green Belt Certification  
 Occupational Safety and Health Administration; 10-Hour Construction Safety Certification

Occupational Safety and Health Administration; 3 Hour Safety Refresher Certification  
Delaware Technical Community College Certification

Dual Enrollment Courses:

Delaware Technical Community College, Operations Management: 7 articulated credits

- OMT100 – Operation Management: 4 credits
- OMT240 – Supply Chain Management: 3 credits

Delaware Technical Community College, Electromechanical Engineering Technology: 3 articulated credits

- ELM205 - Mechanisms & Design: 3 credits

<b>Related Careers</b>	<b>Related Careers</b>
Industrial Truck and Tractor Operator	Traffic Manager
Materials Handler	Logistical Engineer
Materials Associate	Engineering and Related Technologist
Logistician	Design Engineer
Quality Control Technician	Electronics Engineer

## DEPARTMENT COURSE OFFERINGS



### ENGLISH/LANGUAGE ARTS

**NOTE: STUDENTS ARE NOT PERMITTED TO TAKE SEQUENTIAL CORE ENGLISH COURSES SIMULTANEOUSLY UNLESS IN THEIR SENIOR/FINAL YEAR.**

<b>0118 System 44</b>	<b>Intervention</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Target: 9<sup>th</sup> grade students with lowest RI Lexile scores; teacher recommendation.**

*System 44* is designed for our most challenged readers, those reading at a well-below basic level. *System 44* helps students to master the basics of reading in the English language through a comprehensive set of tools designed to identify and target each student's unique challenges. *System 44* is generally followed by Read 180.

<b>0100 Read 180</b>	<b>Intervention</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Target: 9<sup>th</sup> grade students with low RI Lexile score; teacher recommendation.**

Read 180–9 is a comprehensive system of curriculum, instruction, assessment, aimed at raising reading achievement for struggling readers in grade 9. Designed for any student reading two or more years below expected levels, Read 180 leverages adaptive technology to individualize instruction for students and provide powerful data for differentiation.

<b>0111 English 09</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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Students will meet every other day, yearlong to:

1. Read: Short stories, novels, plays, and poems from diverse cultures and countries, including a Shakespearean play.
2. Write: Informative, persuasive, and self-expressive essays, creative works, letters; stand-alone and text-based responses.
3. Focus on: Study skills, library and research skills, vocabulary enrichment for daily use and success on college entrance tests, group skills.

Highlights: Speeches; cooperative groups; dramatizing; independent reading

**Criteria for movement into English Honors track and potentially Advanced Placement from the college preparatory classes would include but not be limited to a grade of 90, documented reading scores on, or above, grade level and a recommendation from a previous teacher.**

<b>0112 English 09</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Recommended: Above average RI/Lexile Score, B average in English; with teacher recommendation.**

Students will:

1. Read: Short stories, novels, plays, and poems from diverse cultures and countries including classical Shakespearean plays
2. Write: Essays in a variety of forms and purposes, including persuasive, informative, and self-expressive; creative works

3. Focus on: Study skills, library and research skills, vocabulary enrichment for daily use and success on college entrance tests, group skills

Highlights: Extensive independent reading; dramatizing; speeches; cooperative groups

**It is recommended that the student achieve an 80% or better, in order to continue participation at the honors level. Summer reading is recommended.**

<b>0121 English 10</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: English 9**

Students will meet every other day, yearlong to:

1. Read and analyze selections representing a diverse cultures and countries. Readings will be drawn from all genres and types;
2. Write essays in narrative, descriptive, expository and persuasive styles; creative work; and essays relating to literature and personal experience using the writing process;
3. Focus on vocabulary skills, analytical thought, oral language skills, and independent thought

Highlights: Research writing skills, independent reading and analysis, cooperative group work, dramatizations, and research reports. **Summer reading is recommended.**

<b>0122 English 10</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: English 9; Recommended: B average in English and an above average RI/Lexile score**

1. Read and analyze selections representing a diverse cultures and countries. Readings will be drawn from all genres and types, and there will be extensive independent reading;
2. Write frequent essays that analyze literature or that discuss personal experience; research project; and creative works.
3. Focus on vocabulary skills, independent study habits, oral language skills, and analytical thought.

Highlights: Extensive independent reading and analysis, cooperative group work, dramatizations, and research reports. **Summer reading is recommended.**

<b>0131 English 11</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: English 10**

Students will:

1. Read and analyze selections from American literature of all genres and types;
2. Write paragraphs and essays analyzing literature, discussing major themes in American literature, and analyzing rhetoric;
3. Focus on academic research steps, organizational skills, and Standard English communication, both written and oral.

Highlights: Oral reports of research findings, vocabulary enrichment, discussions, and analysis of rhetoric.

**Summer reading is recommended.**

<b>0132 English 11</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: English 10; Recommended: B average in English and an above average RI/Lexile score.**

1. Read and analyze selections from American literature with thematic emphasis;
2. Write essays each quarter, research reports, and rhetorical analysis using the writing process;
3. Focus on extensive independent readings and vocabulary enrichment, organizational skills, and Standard English communication, both written and oral.

Highlights: Critical thinking, discussions, and presentations. **Summer reading is recommended.**

<b>0133 AP Language</b>	<b>English 11 or 12</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: English 10 or higher; Recommended: B average in English and an above average RI/Lexile score**

This course is offered to juniors who intend to take the AP English Language and Composition exam at the end of the school year. It is separate and independent from the twelfth-grade AP English Literature and Composition course. **Summer reading is recommended.**

Students will:

- Analyze and interpret samples of good writing, identifying and explaining an author's use of rhetorical strategies and techniques;
- Apply effective strategies and techniques in their own writing;
- Create and sustain arguments based on readings, research, and/or personal experience;
- Demonstrate understanding and mastery of standard written English as well as stylistic maturity in their own writings;
- Write in a variety of genres and contexts, both formal and informal, employing appropriate conventions; and
- Move effectively through the stages of the writing process, with careful attention to inquiry and research, drafting, editing, and review;
- Practice oral communication skills.
- **Students will be required to take the Advanced Placement Exam in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.**

<b>0143 AP Literature</b>	<b>English 11 or 12</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: English 10 or higher; Recommended: B average in English and an above average RI/Lexile score**

This course is offered to seniors who intend to take the AP English Literature and Composition exam at the end of the school year. It is separate and independent from the eleventh grade AP English Language and Composition course. **Summer reading is recommended.**

Students will:

- Read and analyze selections from writers and philosophers from the classical to modern period, with emphasis on British and American writers;
- Analyze authors' techniques and devices in a variety of genre and literary periods;
- Understand a variety of schools of literary thought;



- Write college application essays, essays of literary analysis, and a research paper on a topic pertaining to British literature.
- Demonstrate understanding and mastery of standard written English as well as stylistic maturity in their own writing:
- Focus on discussions and independent analysis typical of the college experience.
- Highlights: Extensive reading list with strong focus on analytical and interpretive writing and discussion; extensive writing, both in and out of class; sharing of ideas through oral communication.
- **Students will be required to take the Advanced Placement Exam in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.**

<b>0141 English 12</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: English 11**

Students will:

- Read selections from British literature; historical survey of the English language
- Write résumés, essays analyzing literature, college application essays, and a research paper on a topic pertaining to British literature using the writing process;
- Focus on independent study habits, thought processes, and oral language skills needed for college success.

**Summer reading is recommended.**

<b>0144 ENG121/English Composition 1</b>	<b>Dual Enrollment</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: English 11, Per WU requirements: To be eligible for the course, students must have an SAT Reading score of 450 or an Accuplacer score placing them at the 121 level.**

This course is designed to help students become more proficient and effective writers. Students will study the principles and skills involved in effective writing and will be required to apply these skills to writing assignments throughout the course. Students will study the elements that constitute various rhetorical patterns of writing and develop skills in using these patterns in their writing. The rhetorical patterns studied in this course are description, narration, compare/contrast, classification/division, and extended definition. Students will strengthen their knowledge of APA conventions through direct instruction in the use of APA formatting and citation; APA formatting and citation is required in all papers. Students will receive direct instruction in mechanics, usage, and grammar (MUGs); assessment in MUGs will be through student writing. All essays will have two drafts, a first draft and a revised draft, both of which will be assessed for academic integrity issues through SafeAssign. The first draft will allow students to correct any issues with use of outside sources before the revised draft. Students will be required to apply these skills to all writing assignments. Successful completion of an independent library orientation project is also a requirement.

**ENGLISH - ELECTIVES**

<b>0151 Competitive Public Speaking</b>	<b>Pass/Fail</b>	<b>Level 0</b>	<b>½ Credit</b>
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**Also known as Speech & Debate - This class is only offered outside the school day**

CRITERIA FOR EARNING ½ CREDIT

- A. After School Meetings:** Students must attend all meetings or have a valid excuse. Students with valid excuses will meet with the instructor at a different time.
- B. Speech tournaments or competitions (not scheduled during regular school day):** Participation is mandatory for all events except one. Participation may take a variety of formats.
- C. Essay Contests:** Participation is mandatory in all contests except two.
- D. Fundraisers:** Students will participate in at least one fundraiser per year to support tournament costs.

#### **SENIORITY AND SELECTION FOR TOURNAMENTS AND COMPETITIONS**

1. Seniority is based on years in Speech and Debate and participation in all events and fundraisers.
2. All students may apply for competitions and tournaments. If spaces are limited in a specific event, quality of product will be used to determine participation.

#### **0156 Introduction to Journalism      College Prep      Level 1      1 Credit**

**Recommended: Students have a B average or better in a College Prep level (or higher) English Class and enjoy writing!**

In this introductory writing course, students will learn the basics of making an appointment to interview, taking notes during the interview, and converting those notes to a newspaper article. Students distribute the school newspaper, *The Senator*. Superior writers publish full-length articles. Students also engage in daily discussions on current events, explore the terminology and operation of various media, and master basic word processing skills.

#### **0157 Advanced Journalism      College Prep      Level 1      1 Credit**

**Prerequisite: Students must have successfully completed course 0156: Introduction to Journalism: Student must submit an application and writing sample. Students must be approved for enrollment in the course by the instructor.**

Students will study the skills needed to produce a school newspaper and will cover journalistic ethics, press law, interviewing, proofreading, and revising. Students will have an overview of photography, layout, and advertising, and will explore current events on a daily basis. All students will be assigned to *The Senator* staff in various positions with specific responsibilities and expectations. Each spring students will have the opportunity to apply for their position of choice on *The Senator* staff, including, but not limited to, editor, layout editor, copy editor, advertising manager, and section editors.

#### **0177 Publications      College Prep      Level 1      1 Credit**

**Prerequisite: Instructor interview also application/writing sample**

(Open only to 10th, 11th and 12th)

Students will work with advanced publication software such as Indesign CS2 and Adobe Photoshop. Instruction will include an overview of journalism ethics, photography, digital imaging, advertising, layout and headline writing. Students will also learn interviewing, proofreading, revising and word processing skills. They will assist the advisor in handling the sale and inventory of the yearbook at the end of the year.

#### **0179 Creative Writing      College Prep      Level 1      1 Credit**

This cross-genre course will focus on those elements that make for vivid, effective writing across genres (especially fiction and poetry, but including the essay and drama.) Emphasis will be on significant detail, lyrical language and memorable image; inventive metaphor and simile; and

authentic voice, dialogue and characterization. This is a workshop class that will involve student critique.

## **HISTORY AND SOCIAL SCIENCES**



<b>0211 World History</b>	<b>College Prep</b>	<b>Level 1</b>		<b>1 Credit</b>
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This course is a survey of the world's civilizations from the 16th century to the present designed for 9<sup>th</sup> grade students. It is geared for the student who is preparing for college. The course will emphasize the gathering and analysis of historical data, the interpretation of that data, and the development of historical knowledge as it pertains to the world.

<b>0212 World History</b>	<b>Honors</b>	<b>Level 2</b>		<b>1 Credit</b>
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**Recommended: B average in Social Studies.**

This course is a survey of the world's civilizations from the 16th century to the present. It is geared for the 9<sup>th</sup> grade student who is already preparing for college. The course will emphasize the gathering and analysis of historical data, the interpretation of that data, and the development of historical knowledge as it pertains to the world. This course is the same content and skills as the College Prep World History course but expanded in depth, enrichment, and transfer.

<b>0233 AP US Government &amp; Politics Advanced Placement</b>	<b>Level 3</b>			<b>1 Credit</b>
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**Prerequisite: 1 credit of history and social sciences.**

**Recommended: B average in Social Studies and an above average SRI/Lexile score**

Advanced Placement United States Government and Politics is a survey of United States Government and Politics. The course provides students with a comprehensive understanding of the operation of the U.S. Government. American Government and Politics is the study of the foundations of American government, American Political Parties and elections, American government institutions, and American Governmental policy. The U.S. Government and Politics course will prepare the student to take the Advanced Placement test administered by ETS. As such it will be a rigorous course with a great deal of outside work. **Students will be required to take the Advanced Placement Exam in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.**

<b>0236 AP Comparative Gov't &amp; Politics Advanced Placement</b>	<b>Level 3</b>			<b>1 Credit</b>
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**Prerequisite: 1 credit of history and social sciences.**

**Recommended: B average in Social Studies and an above average SRI/Lexile score**

Advanced Placement Government and Politics is a survey course. The course concentrates on comparisons of systems of government including Great Britain, Russia, China, Nigeria, Iran, and Mexico. Students will examine not only structures of government in these countries but economic systems, critical periods, political parties, citizens, social policies, and foreign policies. The course is designed to be the equivalent of an introductory college level course. **Students will be required to take the Advanced Placement Exam in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.**

<b>0231 Political Science</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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**Prerequisite: 1 credit of required history and social sciences.**

Political Science is an analysis of the American political system with emphasis upon voter behavior and Congressional, Presidential and Judicial behavior. Included in this course are the problems of policy making in domestic and foreign affairs, with an emphasis on foreign policy. Consideration will be given to statistical research techniques in the analysis of political behavior.

<b>0237 Economics</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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**Prerequisite: 1 credit of required history and social sciences.**

This course is designed to provide practical and theoretical insight into the area of economics. Units to be covered include; scarcity, supply and demand, business organization, labor, government, money and banking, international trade, and comparative economic systems.

<b>0221 United States History</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: 2 Credits of history and social sciences.**

This course deals almost exclusively with the study of United States history since the Civil War. An emphasis will be placed on the social, intellectual, cultural, political and economic developments in our society since the Civil War. The course shall begin with a review of the American colonial experience and the Constitutional basis of our government, as well as those events that split the United States on a sectional basis. Students are encouraged to explore areas that interest them on an individual basis.

<b>0223 AP United States History</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: World History/AP Human Geography and Political Science or equivalent.**

**Recommended: B average in Social Studies and an above average SRI/Lexile score**

Students planning on attending four-year colleges, especially competitive colleges, should give serious thought to having some Advanced Placement courses from each discipline on their transcripts. Advanced Placement United States History is a College Level survey of United States history from its colonial beginnings up until the current time. While the major focus of this course is to prepare students for the United States History Advanced Placement Examination, an appreciation of history is also a goal. The exam and syllabus are approved and designed by the College Board. As such, it will be a rigorous course with a great deal of outside work required. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**

### **HISTORY/SOCIAL SCIENCES ELECTIVES**

**Those students desiring an additional history credit may select from the following electives**

<b>0243 Microeconomics</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1/2 Credit</b>
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**This course is online.** Courses are in conjunction with the College Board to offer further study in economic theory and practice. They are individual in nature and require commitment and time management capabilities. This microeconomics course will prepare the student to take the Advanced Placement test administered by E.T.S. As such, it will be a rigorous course with a

great deal of outside work required. Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. (**\*\*enrollment contingent upon adequate funding**)

<b>0263 Macroeconomics</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1/2 Credit</b>
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**This course is online.** Courses are in conjunction with the College Board to offer further study in economic theory and practice. They are individual in nature and require commitment and time management capabilities. This macroeconomics course will prepare the student to take the Advanced Placement test administered by E.T.S. As such, it will be a rigorous course with a great deal of outside work required. Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. (**\*\*enrollment contingent upon adequate funding**)

<b>0251 Psychology</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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**Prerequisite: Junior or Senior with 2 Credits in history / social sciences.**

Psychology is the study of behavior. The course is designed to give us a better understanding of ourselves and our relationships with others. Units include the biological basis of behavior (a look at the brain), and development (emphasis on infancy and childhood), personality (theories and development), and abnormal behavior (depression, personality disorders, schizophrenia).

<b>0253 AP Psychology</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Grades 10-12 with at least one prior full History/Social Science credit**

Students planning on attending four-year colleges, especially competitive colleges, should give serious thought to having some Advanced Placement courses from each discipline on their transcripts. The purpose of the AP course in Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They will also learn about the methods psychologists use in their science and practice. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**

<b>0261 Sociology</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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**Prerequisite: Junior or Senior with 2 Credits in history and social sciences.**

Sociology is the scientific study of society and human social behavior. Units include: Concepts of Culture (cultural variables, social control, cultural conflict, etc.) The Socialization Process (childhood development, child abuse, changing roles between the sexes, etc.); Minorities in America; Crime and Delinquency (statistics, case studies, white collar crime, capital punishment, etc.); and The Prison System (issues, problems, reform Delaware and nationwide).

<b>0266 Civil War</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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**Prerequisite: 1 credit in history / social sciences.**

The Civil War will be an in-depth study of the causes, effects, and nature of the war. The course will look at the political, economic, and geographic aspects of the Civil war. Finally,

students will not only examine the long lasting impact and continuing controversies created by the Civil War, but the overall importance of the Civil War to the United States as well.

<b>0267 World War II</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
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**Prerequisite: 1 credit in history / social sciences.**

The course in World War II will be an in depth study of the causes, effects, and nature of the war. The course will look at the political, social, economic, and geographic aspects of the war. Finally, students will not only examine the long lasting significance of World War II, but the overall importance of the war in the development of the modern United States as well.

<b>0271 Constitutional Law</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
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**Prerequisite: One credit in history / social sciences.**

Constitutional Law is the in-depth study of the Supreme Court's rules on speech, press, privacy, and searches, etc. The course covers how our Constitution operates and how the 1st, 4th, 5th, 6th, 8th, 9th, 10th, and 14th Amendments are protections for everyone.

<b>0281 Civil Law</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
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**Prerequisite: One credit in history / social sciences.**

Civil Law is an in-depth study of the American legal system and how it affects our daily life. This course will deal with Contract Law, Torts, Consumer Law, Family and Housing Law.

<b>0291 Criminal Justice</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: One credit in history / social sciences.**

This introductory criminal justice course gives an overview of criminal law, criminal procedure, law enforcement agencies, corrections, the courts and the concept of crime.

<b>0273 AP European History</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Junior or Senior with 2 Credits in history / social sciences.**

AP European History is a college level course that provides students with an academic experience equivalent to a freshman/sophomore college survey of western history. The course is specifically designed to provide students with an in-depth study of European history from the 15th century through the modern day. In addition to course content, the course is specifically designed to enhance student analytical reading and essay writing skills. This course will prepare the student to take the Advanced Placement Exam in European History administered by E.T.S. As such, it will be a rigorous course with a great deal of outside work required. **Students will be required to take the Advanced Placement Exam in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.**

<b>0272 AP Human Geography</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Recommended: B average in Social Studies. This course may replace World History Honors. Open to students in grade 9 - 12**

Advanced Placement Human Geography is a survey course. The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization

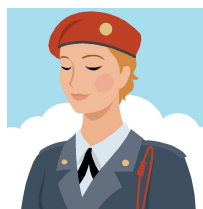
and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The course is designed to be the equivalent of an introductory college level course. **Students will be required to take the Advanced Placement Exam in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.**

<b>0274 Personal Finance</b>	<b>College Prep</b>	<b>Level 1    ½ Credit</b>
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**Prerequisite: Junior or Senior status**

This semester course investigates the role of markets in a person's life from a financial markets perspective. Students will develop an understanding of how individual choices impact the functioning of the economy as a whole and how the economy influences individual choices. Emphasis will be placed on the critical thinking processes needed for the society and individuals to make decisions about the management of societal and individual resources. Using data, case studies, problem solving, and application, students will learn to analyze, interpret issues related to education, housing, transportation, health care, and retirement.

**Personal Finance will need to be paired with another ½ credit course, preferably in the History/Social Sciences department.**



**AIR FORCE JUNIOR ROTC**  
**(Aerospace Science)**

The objectives of AFJROTC are to educate and train high school cadets in citizenship, promote community service, instill responsibility, character and self-discipline; and provide instruction in air and space fundamentals. Students must be 14 years of age, U.S. citizens, physically fit, and able to maintain the required academic and discipline standards. Cadets wear uniforms one day each other week (all day) in conformity with United States Air Force standards. Repeated failure (3 times in any academic quarter) to wear the uniform, and refusal and failure to maintain these standards of appearance and grooming are grounds for removal from the program. Wellness/Physical Fitness is emphasized in each level of Aerospace Science class and makes up 20% of the course. Wellness is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. Activities include field trips, community and school service projects, Color Guard, Drill Team, Rocket Club, and Raider Team. AFJROTC is open to all male and female students. Enrollment in AFJROTC in no way obligates a student to enter the United States military.

<b>0216 Aerospace Science 1</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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*A Journey into Aviation History* is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets. 40%

*Leadership Education I* introduces cadets to the Air Force Junior Reserve Officer Training Corps (AFJROTC) program providing a basis for progression through the rest of the AFJROTC program

while instilling elements of good citizenship. It contains sections on cadet and Air Force organizational structure; uniform wear; customs, courtesies, and other military traditions; health and wellness; fitness; individual self-control; and citizenship. 40% *Wellness*: Is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender of 20%.

<b>0226 Aerospace Science 2</b>	<b>College Prep</b>	<b>Level 1</b>		<b>1 Credit</b>
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**Prerequisite: Aerospace Science 1; This course is a prerequisite for enrollment in the Aviation Honors Ground School Course.**

*The Science of Flight* is a science course designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. The portion on the Human Requirements of Flight is a survey course on human physiology. Discussed here are the human circulatory system, the effects of acceleration and deceleration, and protective equipment. 40%.

*Leadership Education II* stresses communications skills and cadet corps activities. Much information is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches complement the academic materials. Cadet corps activities include holding positions of greater responsibility in the planning and execution of corps projects. 40%

*Wellness*: Is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. 20%

**(Enrollment requires instructor recommendation).**

<b>0256 Aerospace Science 3</b>	<b>College Prep</b>	<b>Level 1</b>		<b>1 Credit</b>
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**Prerequisite: Aerospace Science 1 and Aerospace Science 2**

*Global and Cultural Studies* is a multidisciplinary course that introduces students to various regions of the world from a geographic, historical and cultural perspective. The course provides increased international awareness and insight into foreign affairs that permits a more educated understanding of other cultures and enhanced knowledge of America's interests and role in the world. Geopolitical issues such as terrorism, economics, politics, military issues, religion, environmental concerns, human rights, disease, overpopulation, literacy, the migration of peoples and other cultural issues will be examined. The regional areas included in this course are the Middle East, and Africa. 40%

*Leadership Education III* will be helpful to students deciding which path to take after high school. Information on how to apply for admission to college or to a vocational or technical school is included. Information on how to begin the job search is available to students who decide not to go to college or vocational school. Available also is information about financial planning and how to save, invest, and spend money wisely, as well as how not to get caught in the credit trap. Students are informed about real life issues such as understanding contracts, leases, wills,



warranties, legal notices, and personal bills. Citizen responsibilities such as registering to vote, jury duty, and draft registration will be helpful to. For those students who may be moving into an apartment of their own, information is presented on apartment shopping and grocery shopping skills. There is information on how to prepare a résumé and the importance of good interviewing skills. If there are students who are interested in a career in the military, with the federal government, or an aerospace career, information is also provided for them. 40%

*Wellness:* Is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. 20%

**(Enrollment requires instructor recommendation).**

<b>0276 Aerospace Science 4</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Aerospace Science 1, Aerospace Science 2 and Aerospace Science 3**

With guidance from the Aerospace Science Instructors, the cadets manage the entire corps during the fourth year. This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. The cadets will do all the planning, organizing, coordinating, directing, controlling, and decision-making. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills learned in class and at Summer Leadership School. 80%

*Wellness:* Is an exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. 20%

**(Enrollment requires instructor recommendation, attendance at Summer Leadership School and a contract).**

<b>0277 Aerospace Science 5</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
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The material covered is an advanced, more in-depth study of the previous aerospace topics. This course is the foundation for students interested in receiving a **private pilot's license**. When the course is completed the students should be prepared to take and pass the Federal Aviation Administration (FAA) written examination. The *Private Pilot Manual* is the primary source for initial study and review. The text contains complete and concise explanations of the fundamental concepts and ideas that every private pilot needs to know. The subjects are organized in a logical manner to build upon previously introduced topics. Subjects are often expanded upon through the use of Discovery Insets, which are strategically placed throughout the chapters. Periodically, human factors principles are presented in Human Element Insets to help you understand how your mind and body function while you fly. Throughout the manual, concepts that directly relate to FAA test questions are highlighted by FAA Question Insets. Additionally, you can evaluate your understanding of material introduced in a particular section by completing the associated review questions. **This course is offered 1<sup>st</sup> and 2<sup>nd</sup> semester only. (Enrollment requires instructor interview and contract).**

## **MATHEMATICS**



**\*\*PLEASE CONSULT THE SCIENCE/MATH SEQUENCE PLANNING GUIDE IN THE APPENDIX\*\***

<b>0366 Math 180 Course II/Algebra I</b>	<b>College Prep</b>	<b>Level 1</b>	<b>2 Credits</b>
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Math 180 Course II curriculum transitions students to pre-algebra with an emphasis on building proportional reasoning with rates, ratios, and linear relationships, and functions. Visual models

bring coherence to instruction, making abstract concepts more concrete. This course consists of using the online program for Math 180 as well as textbooks.

This course will introduce students to the terms and principles of Algebra. The course will include an in-depth study of solving linear and exponential equations, solving linear systems and solving linear inequalities and systems. Students will also study sequences and the comparison of functions (linear and exponential). Students will use Algebra to model practical applications.

**This course is worth 1 math credit and 1 elective credit.**

<b>0381 Algebra 1</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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This course will introduce students to the terms and principles of Algebra. The course will include an in-depth study of solving linear and exponential equations, solving linear systems and solving linear inequalities and systems. Students will also study sequences and the comparison of functions (linear and exponential). Students will use Algebra to model practical applications.

<b>0382 Honors Algebra 1</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Recommended: B average in Math with an above average MI score.** This course will introduce students to the terms and principles of Algebra. This course will include an in depth study of solving linear and quadratic equations, solving linear systems, solving linear inequalities and systems, solving matrices, and solving rational equations. In addition, students will study coordinate geometry and polynomials, will explore the structure of real numbers and will use Algebra to model practical applications. Students entering this class should have a good foundation in basic mathematics (whole numbers, fractions, decimals, and percent).

<b>0321 Geometry</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Algebra 1**

This course is designed to help students understand the nature of deductive proof with emphasis on definitions, postulates, theorems, and the logic of the deductive process. Some of the topics explored are angles, triangles, parallel and perpendicular lines, congruence, polygons, circles, and 3-dimensional figures.

<b>0322 Honors Geometry</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Hon. Algebra 1. Recommended: B average in Math**

This course is designed to help students understand the nature of deductive proof with emphasis on definitions, postulates, theorems, and the logic of the deductive process. Some of the topics explored are angles, triangles, parallel and perpendicular lines, congruence, polygons, circles and spheres.

<b>0361 Algebra 2</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Completion of Algebra 1 and Geometry**

Successful completion of Algebra 2 is a state requirement for graduation. Topics will include functions, their graphs and solving equations and inequalities. Functions to be studied include absolute value, quadratic, cubic, polynomial, rational, radical, exponential, logarithmic and trigonometric. Where possible, connections to real life applications will be used to extend the Algebra.

<b>0362 Honors Algebra 2</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Honors Alg. 1 (or 85% in an approved 8<sup>th</sup> grade Algebra program)**

**Recommended: B average in Math and an above average MI score.**

Successful completion of Algebra 2 is a state requirement for graduation. Topics will include functions, their graphs and solving equations and inequalities. Functions to be studied include absolute value, quadratics, cubic, polynomial, rational, radical, exponential, logarithmic and trigonometric. Where possible, connections to real life applications will be used to extend the Algebra and how it applies to probability and statistics.

<b>0371 Algebra 3</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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This course is designed to strengthen the understanding of Algebra 2 concepts and extend them into real world applications. Upon completion of this course students will be prepared for an entry level college mathematics course. This course will include a study of functions, right triangle trigonometry, matrices, vectors and their applications.

<b>0359 Advanced Topics in Mathematics</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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In this senior level mathematics course, students will extend the mathematical knowledge that they have accumulated throughout their high school career to examine, through modeling applications, statistics, probability, logic, linear algebra, and finance. Upon completion of this course students will be prepared for an entry level college mathematics class and/or will have advanced their mathematical skills to be career ready upon graduation.

<b>0374 CP Pre-Calculus</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Algebra 2**

This course is designed to strengthen the understanding of Algebra 2 concepts and extend them to a mathematical level which will prepare a student to compete at the college level in a pre-calculus or calculus program designed for non-math majors. This course will include a study of both algebraic and transcendental functions (trigonometric, inverse trigonometric, logarithmic and exponential), matrices, vectors and topics from discrete mathematics including probability and statistics.

<b>0372 Honors Pre-Calculus</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Honors Geometry and Honors Algebra 2**

**Recommended: B average in Math and B in Honors Algebra 2.**

This course is designed to prepare the student mathematically for calculus. The concept of function is developed with variations and considerable time is spent with the transcendental functions (exponential, logarithmic, trigonometric, inverse trigonometric functions). Other topics include systems of equations and inequalities with matrices, vectors, complex numbers, probability, statistics and selected topics in analytic geometry. The finale is the study of limits and a preview of some calculus concepts such as the study of limits. A graphing calculator is used daily.

<b>0341 AP Calculus</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Honors Pre-Calculus**

The purpose of this course is to prepare the student for college mathematics. Calculus is used to solve problems of change and motion. Topics include slopes of curves, velocities, acceleration, forces, extreme values of functions, areas, volumes. Differential and integral calculus are studied. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**

<b>0393 AP Statistics</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Honors Algebra 2**

This is a college level course designed to give the serious math student a strong foundation in the field of statistics. Students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to exploring data, sampling and experimentation, anticipating patterns, probability, and statistical inference. A graphing calculator is mandatory. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**



## **PHYSICAL AND LIFE SCIENCES**

At the present time, the number of science credits required for graduation totals three, including one credit in physical science (or physics) and one credit in biology. Chemistry should be taken during the junior year in preparation for successful completion of the DCAS science test in grade 10.

**\*\*PLEASE CONSULT THE SCIENCE/MATH SEQUENCE PLANNING GUIDE IN THE APPENDIX\*\***

<b>0411 Physical Science</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Currently enrolled in Algebra 1**

This course is designed to give the student a general background in physical, chemical and earth science. Students must have a good mathematics foundation. This course is laboratory and activity oriented. Curriculum is based on Delaware State Standards and Grade Level Expectations.

<b>0412 Honors Physical Science</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Currently in Honors Algebra 1 or Honors Algebra 2**

**It is recommended that students have a B average in Science.**

This course is designed to give the student a more thorough background in physical, chemical and earth science. There is a greater emphasis on the use of mathematics in problem solving. Honors Physical Science is a rigorous academic course designed for college-bound students.

<b>0421 Biology CP</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Physical Science**

Biology CP is a laboratory science. Traditional topics include heredity, evolution, cells, life processes and the nature of science. This course provides the skills necessary for college-bound non-science majors.

<b>0422 Honors Biology</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Honors Physical Science or enrolled in Honors Algebra 2 as a 9<sup>th</sup> grader**

**Recommended: B average in Science.**

Biology Honors is a laboratory science. Traditional topics include ecology, heredity, evolution classification, and life processes. The course has a greater emphasis on laboratory experimentation and procedures. This course should be selected by students preparing for a four-year liberal arts, science, or engineering program in college.

<b>0453 AP Biology</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Biology and Chemistry**

**Recommended: Honors Biology and Honors Chemistry**

Biology AP is a laboratory science. This college level course is designed for students who have been successful in Honors Biology and wish to study advanced topics in Biology. Completing the biology quarter courses is an asset to the student but not a prerequisite. The course emphasizes laboratory experimentation. Topics include biochemistry, energy transformations in cells, cell division, genetics, a survey of structure and function as related to taxonomy, behavioral biology, and environmental science. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**

<b>0431 Chemistry</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Biology**

**Recommended: Geometry or higher level of math**

Chemistry is a laboratory science course. This course is designed to meet or exceed the Delaware State Standards and follows the Delaware Recommended Curriculum in Science. Students enrolled in this course will probably pursue some form of future education that is non-technical in nature. Topics include the study of properties of matter, chemical and physical reactions, electromagnetic spectrum, trends of the periodic table and chemical bonding.

<b>0432 Honors Chemistry</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Biology**

**Recommended: Honors Algebra 2 and Honors Geometry**

Chemistry Honors is a laboratory course. This course is designed to meet or exceed the Delaware State Standards. Students enrolled in this course will most likely major in a science-related field in college or attend a four-year liberal arts program. This course places

much emphasis on mathematical problem solving. Topics include observation techniques, communicating scientific information, the mole concept, the kinetic theory, liquids and solids, atomic theory, trends of the periodic table, nuclear reactions, energy and matter and chemical bonding.

<b>0433 AP Chemistry</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Chemistry**

**Recommended: Honors Chemistry**

AP Chemistry is laboratory science. It is a college-level course designed for students who have been successful in Honors Chemistry and wish to study advanced topics in chemistry. The course emphasizes problem solving and laboratory experimentation. Topics include stoichiometry, thermochemistry, quantum mechanics, orbital theory, kinetics, equilibrium, nuclear chemistry and an introduction to organic chemistry. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement in college. Financial aid is available.**

<b>0442 Honors Physics</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Chemistry**

**Recommended: Honors Chemistry and Honors Geometry**

Honors Physics is a laboratory course. This course should be taken by any student who is planning to enroll in a four-year program in college. This course consists of the study of force and motion, thermal physics, sound, light, electrostatics, electricity, atomic and nuclear physics. Problem solving comprises a major part of the program.

<b>0443 AP Physics</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Chemistry**

**Recommended: Honors Chemistry and Honors Pre-calculus.**

AP Physics is a laboratory science. This college level course covers all topics covered in two semesters of introductory college physics. The course emphasizes problem solving and laboratory experimentation. Topics include mechanics, thermal physics, wave theory, sound, light, optics, electricity and magnetism, and modern physics. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**

### **SCIENCE ELECTIVES**

<b>0451 Forensics</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Biology and Chemistry**

Forensics/Biotechnology is the application of science to the law and encompasses various scientific disciplines. The course will introduce various methodologies and applications used in the forensics context. Topics discussed include organic and inorganic chemical analysis of physical evidence, principles of serology and DNA analysis, and forensic entomology. Methods of microbiology will be used. The content is organized so that students will get a better understanding of cells and their activities through direct observation. Students will study

single-celled organisms, bacteria, algae, fungi, culture preparation, staining, and septic techniques.

<b>0463 Anatomy &amp; Physiology</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Biology**

Anatomy and Physiology is a laboratory science, but is an elective and not designed to meet the Delaware State Standards. It is designed to appeal to all students who have an active interest in biology. The content will center on a comparison of the principal organs of certain vertebrate animals and the study of functions of the major human systems. Modern biology-based problems will be discussed based on scientific theory, moral, ethical, and religious grounds. Students will refine their scientific and reasoning ability by completing this course.

<b>0468 Dual Enrollment Anatomy &amp; Physiology</b>	<b>College Credit Level 3</b>		<b>1 Credit</b>
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**Prerequisite: Must pass placement test with Delaware Technical and Community College or earn a specific score on the SAT Math and Verbal test.**

This course follows the same curriculum as the BIO-120A course through Delaware Technical and Community College. Topics include: organization of the human body, cells and processes, tissues, integumentary system, skeletal system, muscular system, endocrine system, and nervous system.



**WORLD LANGUAGES**



Our Dover High World Language program offers a choice of two languages: French and Spanish. **Every student is required to take two consecutive years of the same language.** All students are encouraged to take a four-year language program. Students may choose to study more than one language throughout their high school career. In an effort to promote student success in the study of world languages beyond the required two years, **we suggest that a student earn a grade of 80 or above in the prerequisite language course.** A student who does not meet this suggestion may wish to discuss options with his/her counselor and world language teacher.

<b>0511 Spanish 1</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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CP Spanish 1 provides an introduction to the language and culture of the contemporary Spanish-speaking world. Lessons are organized to reflect the goals set by the National Standards and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Proficiency is gained in the areas of listening, speaking, reading, and writing, with an overall emphasis on communication skills. Through investigation and activities, students will gain the knowledge and skills needed to be able to read simple Spanish text, write short segments in Spanish and converse and understand basic Spanish language spoken to them. Students practice real-life situations through strategies which include conversation cards, dialogues, speaking exercises, partner work, projects, and interactive computer programs. Topics studied include: introductions, hobbies and sports, restaurants and food, school, family, shopping, home, and health.

<b>0512 Spanish 1</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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The Honors Level 1 language course provides an introduction to the language and culture of the contemporary Spanish-speaking world. Lessons are organized to reflect the goals set by

the National Standards and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Proficiency is gained in the areas of listening, speaking, reading, and writing, with an overall emphasis on communication skills. Through investigation and activities, students will gain the knowledge and skills needed to be able to read Spanish text, write segments in Spanish which vary in length and difficulty, and converse and understand Spanish language spoken to them. In addition, pre-AP strategies are also incorporated so that these students would be on track for higher achievement on the Advanced Placement test at the end of the four years of study. Students practice real-life situations on these topics: introductions, hobbies and sports, restaurants and food, school, family, shopping, home, and health. It is our goal to use the language on a daily basis and meet the requirements for moving into a Level 2 Honors program. All students are encouraged to take a four-year language program.

<b>0521 Spanish 2</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Spanish 1**

The purpose of this student-centered Level 2 program is to build upon a foundation in the language through the National and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Our purpose is to use Spanish through all four language skills (listening, speaking, reading, and writing) in real-life situations including these topics: holidays, descriptions, telling past events, daily life, sports and leisure activities, and traveling. Increased proficiency is gained in the areas of listening, speaking, reading, and writing, with an overall emphasis on communication skills. Through investigation and activities, students will gain the knowledge and skills needed to be able to read Spanish text, write segments in Spanish which vary in length and difficulty, and converse and understand Spanish language spoken to them. Students may choose to continue study in Spanish Honors 3. All students are encouraged to take a four-year language program.

<b>0522 Spanish 2</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Spanish 1; Recommended: 80+ in Spanish 1 Honors**

The purpose of this student-centered Honors Level 2 program is to build upon a foundation in the language through the National and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Our purpose is to use Spanish through all four language skills (listening, speaking, reading, and writing) in real-life situations including these topics: holidays, descriptions, telling past events, daily life, sports and leisure activities, and traveling. Increased proficiency is gained in the areas of listening, speaking, reading, and writing, with an overall emphasis on communication skills. Through investigation and activities, students will gain the knowledge and skills needed to be able to read more complex Spanish text, write segments in Spanish which vary in length and difficulty, and converse and understand Spanish language spoken to them. Continued use of pre-AP strategies challenges the student to greatly improve his communication skills. Students practice real-life situations on these topics: introductions, hobbies and sports, restaurants and food, school, family, shopping, home, and health. It is our goal to use the language on a daily basis. Students are encouraged to take a four-year language program.



<b>0531 Spanish 3</b>	<b>Honors</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Spanish 2; Recommended: 80+ in Spanish 1 Honors**

The purpose of this student centered Level 3 program is to build upon a foundation in the language through the National and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Our purpose is to use Spanish through all four language skills (listening, speaking, reading, and writing) in real-life situations including these topics: telling past events, daily life, and good health habits, fashion, the future, family, friends, and traveling. Level 3 continues and builds upon the foundation for further language study and moves toward advanced language learning. It is our goal to use the language on a daily basis and meet the requirements for moving into Spanish 4. Literature and history are introduced on this level. All students are encouraged to take a four-year language program.

<b>0542 Spanish 4</b>	<b>Honors</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Spanish 3; Recommended: 80+ in Spanish 3**

The purpose of this student-centered program is to prepare students for further language study and for life-long appreciation of the language through the National and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Our purpose is to use Spanish through all four language skills (listening, speaking, reading, and writing) in real-life situations including these topics: student understanding of other cultures, ability to behave in culturally acceptable ways, and to recognize the relationships between language and culture grow with each unit, year, and level of world language study.

<b>0543 Spanish AP</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Spanish 4; Recommended: 80+ in Spanish 4**

The purpose of this student-centered program is to prepare students for further language study and for life-long appreciation of the language through the National and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Our purpose is to use Spanish through all four language skills (listening, speaking, reading, and writing) in real-life situations including these topics: summarizing and analyzing literary works, researching and presenting events in Spanish history, studying Spanish Culture topics including art, music, and Hispanophone countries. In addition, students learn advanced grammar and vocabulary. It is our goal to use the language on a daily basis. Emphasis will include grammar, history, literature and the arts.

**Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**

<b>0551 French 1</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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The purpose of this student-centered program is to provide a foundation in the language through the National and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Our purpose is to use French through all four language skills (listening, speaking, reading, and writing) in real-life situations including these

topics: introductions, hobbies and sports, restaurants and food, school, family, shopping, home, and health. Level 1 establishes the foundation for further language study. It is our goal to use the language on a daily basis and meet the requirements for moving into a Level 2 program. All students are encouraged to take a four-year language program.

<b>0561 French 2</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: French 1**

The purpose of this student-centered program is to build upon a foundation in the language through the National and State World Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Our purpose is to use French through all four language skills (listening, speaking, reading, and writing) in real-life situations including these topics: holidays, descriptions, telling past events, daily life, sports and leisure activities, and traveling. Level 2 continues and builds upon the foundation for further language study and moves toward advanced language learning. It is our goal to use the language on a daily basis and meet the requirements for moving into a level 3 program. All students are encouraged to take a four-year language program.

<b>0562 French 3</b>	<b>Honors</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: French 2**

**Recommended: 80+ in French 2 and an above average SRI/Lexile score.**

The purpose of this student centered program is to build upon a foundation in the language through the National and State Foreign Language Standards of Communication, Cultures, Connections, Comparisons, and Communities. Our purpose is to use French through all four language skills (listening, speaking, reading, and writing) in real-life situations including these topics: telling past events, daily life, good health habits, fashion, the future, family, friends, and traveling. Level 3 continues and builds upon the foundation for further language study and moves toward advanced language learning. It is our goal to use the language on a daily basis and meet the requirements for moving into an AP program. Literature and history are introduced on this level. All students are encouraged to take a four-year language program.

<b>0563 FRENCH 4</b>	<b>Honors</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: French 3, Recommended: 80+ in French 3**

The purpose of this student-centered program is to prepare students for further language study and for life-long appreciation of the language through the National and State World Language Standards of Communication, Cultures, Connections, Comparison, and Communities. Our purpose is to use French through all four language skills (listening, speaking, reading and writing) in real-life situations including these topics: student understanding of other cultures, ability to behave in culturally acceptable ways, and to recognize the relationships between language and culture grow with each unit, year, and level of world language study.

<b>0564 French AP</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: French 3 or French 4**

**Recommend: 80%+in French 3 or French 4.**

Students need a good command of French grammar and vocabulary and competence in listening, speaking, reading, and writing the language. The students will be expected to

develop more advanced skills. Emphasis will include active communication, and help students develop the ability to:

1. understand spoken French in a variety of contexts
2. read newspaper, magazine and literary texts without dependence on a dictionary
3. express oneself coherently with reasonable fluency/ accuracy in written/spoken French

**Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**

## **AGRI-SCIENCES**



The Agri-science curriculum is designed to accommodate the needs of both career bound and college bound students. College credits may be earned through an articulation agreement with Tech Prep Delaware. There are two career pathways -- Animal Science and Natural Resources and Environmental Science. Students may elect one of the pathways or select individual courses as electives.

### **0489 Natural Resources and Ecology      College Prep      Level 1      1 Credit**

Natural Resources and Ecology (NRE) provides students a variety of experiences in the fields of natural resources and ecology. Students explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. NRE includes the study of the natural world including biomes, land, air, water, energy, use and care as well as a focuses on issues surrounding man's interaction with the Earth. Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem.

### **0483 Environmental Science Issues      College Prep      Level 1      1 Credit**

The course enables students to research, analyze, and propose sustainable solutions to environmental issues. Students are immersed in inquiry-based exercises filled with activities, projects, and problems. ESI includes hands-on experiences to develop data acquisition and analysis techniques, critical thinking and evaluation abilities related to environmental issues, as well as independent research and problem solving skills.

### **0484 Environmental III      College Prep      Level 1      1 Credit**

In this third course to the Natural Resources and Environmental Science pathway, students will be examining the natural resource systems with an emphasis on conservation, human population analysis, environmental law, and natural resource communications. Through these topics students will be able to gather information and communicate in both written and oral formats that knowledge gained in a professional manner. Students will be required to complete an environmental related Supervised Agricultural Experience (SAE).

### **0493 AP Environmental Science      Level 3      1 Credit**

**Prerequisite: Biology; Recommended: Chemistry & Algebra 2**

Environmental Science AP is college level course. This course will provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships

of the natural world, to identify and analyze environmental problems both natural and human-made. The course will embrace a wide variety of topics from different areas of study. Students must be prepared to work outdoors for many of the labs. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement in college. Financial aid is available.**

<b>0476 Animal Science I</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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Animal Science I is an entry-level course for the Animal Science Pathway. It is designed to explore the animal science industry. Students will learn and demonstrate the following basic skills: animal safety and handling, an understanding of the global implications of animal Agri-science, and the ability to identify species and breeds of animals. In addition, students will be provided with an introduction to animal anatomy and physiology with a focus on animal management. Students will gain additional practical knowledge and experiences through FFA activities, their individual Supervised Agricultural Experience Program and field trips.

<b>0477 Animal Science II</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisites: Animal Science I**

Animal Science II is a course for students who are interested in continuing their study of animals and related careers. Students will expand on the knowledge, skills and experiences gained in Animal Science I. Students will gain additional practical knowledge and experiences through FFA activities, their individual Supervised Agricultural Experience Program and field trips. Students will get hands on experience focusing on small animal sciences.

<b>0478 Animal Science III</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisites: Animal Science II**

Animal Science III is a course for the third year animal science pathway student. Students will continue their studies of comparative animal anatomy and physiology with a focus on the different body systems and symptoms of disease. In addition, areas of study include career information, office and laboratory procedures and medical terminology. Students will gain additional practical knowledge and experiences through FFA activities, their individual Supervised Agricultural Experience Program and field trips.

<b>0479 Animal Science IV/Vet Tech</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Animal Science III**

Animal Science/Vet Tech IV is a course that provides training in the unlicensed veterinary assistant field. The course includes, but is not limited to, animal handling and restraint, health and safety, sanitation, surgical preparation, anatomy, physiology, medical terminology, infectious diseases, instrument and equipment identification, vaccine preparation and injection techniques, laws and ethics, and veterinary office procedures. Instruction is provided to assist students in utilizing communications skills, following directions, practicing basic mathematics skills as applied to a veterinary medical setting, and reading to gain information and to perform assignments and tasks as directed. Students are also given the opportunity to develop leadership skills through the FFA organization.

<b>0497 Early Career Exploration Agri-science</b>	<b>Level 0</b>	<b>1 Credit</b>
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**Grade 12, Agri-science Pathway student with appropriate job placement**

**Prerequisites:**

- **Completion of Plant and Horticultural Science pathway OR**
- **Completion of Animal Science pathway**

In this off campus work opportunity, students will work with local agri-science businesses to extend their understanding of, and gain valuable experience in, the agri-science profession. The Co-op experience includes both related classroom instruction and on-the-job training. Credit is awarded by semester. Students may enroll in either one or two semesters. To remain in the course, the student must remain employed.

## **BUSINESS, FINANCE, AND MARKETING EDUCATION**

### **Academy of Finance**

<b>0661 Fundamental of Finance</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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Students in this course explore the foundations of financial literacy, the function of finance in society, and the role of a financial planner. FOF is a prerequisite to other Academy of Finance pathway courses. This course focuses on income and wealth, financial institutions, and the role of finance in organizations. Students research the impact of technology on the financial services field, explore the role of a financial planner and examine the importance of sound financial planning. An integrated culminating project provides an opportunity for students to demonstrate expertise on issues critical to financial independence.

<b>0662 Principles of Accounting</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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Principles of Accounting (POA) provides students with an understanding of the critical accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Technology will be used for internal decision making, planning, and control.

<b>0663 Financial Services</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Principles of Accounting**

This course provides students with the history of money and banking and the origins of banking in the United States. Students will learn to research and discriminate between investment options through an in-depth study of the financial services industry and are also introduced to the insurance industry and the critical role of insurance in the financial services sector.

<b>0600 CORE Business</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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The Business, Marketing and Finance Core will provide students an overview of the world of business. Topics such as business law, customer relations, economics, finance, operations, strategic planning, communication skills, information (technology) management, and career development will provide students the foundation they need for other business courses in the Business, Finance, and Marketing pathway. All students in the Business, Finance, and Marketing pathway will be encouraged to participate in the Business Professionals of America, DECA (an association of marketing students). **Seats are limited.**

<b>0671 Marketing Management II</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: 0600/Core Business**

This course is designed to give the student a general introduction to marketing and economics. The student will design advertisements, products and window displays. The students will expand their communication skills by giving oral presentations. The students will also research the functions of business dealing with a company's background, history, operations, management function, sales, interviewing, and hiring process. This course is open to **sophomores, juniors and seniors**. **Core Business is a prerequisite for this Pathway course.**

<b>0672 Marketing Management III</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: 0671/Marketing Management II**

This third level course is designed to give students a more in-depth look at how marketing principles impact businesses. Students will cover marketing research, how to design and administer a marketing research survey, how the legal issues affect businesses, and how marketing plans are developed. Students will be active in community wide public relations campaigns as well as school wide promotional campaigns.

## **CULINARY & HOSPITALITY MANAGEMENT**



<b>0780 Fundamentals of Culinary Arts &amp; Hospitality</b>	<b>Level 1</b>	<b>1 Credit</b>
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This is the introductory course provides an overview of the restaurant and hospitality industry and the importance of food safety and sanitation. Students have the opportunity to prepare a variety of foods and learn the equipment and techniques for a successful operation. Students are introduced to the commercial kitchen, including how to use commercial food equipment in a safe and sanitary manner as well as proper pre-preparation techniques including the mise en place. The course acquaints the student with the scope and complexity of the hospitality industry and the importance of good management skills. This course prepares student for the knowledge and skills required for an entry level position in the Foodservice Industry.

<b>0783 Advanced Food Production &amp; Hospitality Management</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Fundamentals of Culinary Arts & Hospitality**

Advanced Food Production & Hospitality Management further expands upon the culinary essentials and hospitality management skills learned through lab experiences. This course incorporates customer relations, cost controls, marketing, purchasing, inventory, and communications. All skills are practiced through classroom-managed food service operations. Professional skills needed to effectively manage an organization and engage in customer service are integrated.

<b>0784 The Culinary &amp; Hospitality Professional</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite Advanced Food Production & Hospitality Management**

This course offers students the opportunity to refine employability skills such as leadership, accountability, teamwork, and responsibility. Students learn the role of accurate menu creation and design along with the critical thinking and problem solving skills to address real-life case studies while continuing to hone their culinary and management skills. Global cuisines and

sustainability in the hospitality industry are incorporated. Diverse management styles are applied. This course is designed to allow students to work independently and in groups in a kitchen laboratory setting to prepare nutritious foods while demonstrating workplace skills. Students will be prepared to take the ServSafe Exam in this course.

## HVACR



### **0770 HVACR/Sheet Metal Technician I** **Level 1** **1 Credit**

This is the first course in a 3 course pathway. This course will provide students with the foundational knowledge and skills into the HVAC/Sheet Metal career field. The course will cover HVAC safety, construction math, proper use of hand tools, basic electricity and introduction to cooling.

### **0771 HVACR/Sheet Metal Technician II** **Level 1** **1 Credit**

#### **Prerequisite: HVAC I**

In this intermediate course, students will learn the basic operation and scientific theories behind the functioning of the cooling cycle and heating systems. They will also learn proper tool usage and the basic geometric principles of sheet metal layout and processes.

### **0772 HVACR/Sheet Metal Technician III** **Level 1** **1 Credit**

#### **Prerequisite: HVAC II**

In this advanced level course, students will learn the extended operation and scientific theories behind the functioning of the cooling cycle and heating systems. Students in this level will learn the advance hands on skills and knowledge that prepares them for apprenticeships/job market for this career path.

### **0773 HVACR/Sheet Metal Co-Op** **Level 1** **1 Credit**

#### **Prerequisite: Grade 12; HVAC pathway student with appropriate job placement and satisfactory completion of level 3 HVAC course.**

In this off campus work opportunity, students will work with local HVACR businesses to extend their understanding of, and gain valuable experience in, the HVACR profession. The Co-op experience includes both related classroom instruction and on-the-job training. Credit is awarded by semester. Students may enroll in either one or two semesters. To remain in the course, the student must remain employed.



## DIVERSIFIED OCCUPATIONS

### **0948 Diversified Occupations (Semester)** **Pass/Fail** **Level 0** **1/2 Credit**

#### **Prerequisite: Grade 11 or 12. Students may enroll in either one or two semesters. Student employment is required by September 30.**

This course provides on-the-job work experience in a specific career pathway, such as health or law. The student will work with the school advisor and employer to maximize the experience. In this off campus work opportunity, students will work with local employers to

extend their understanding and gain valuable experience. Credit is awarded by semester and is a pass/fail. Students may enroll in either one or two semesters. To remain in the course, the student must remain employed.

## **EARLY CHILDHOOD TEACHER ACADEMY**



### **0700 Human Growth & Development      College Prep      Level 1      1 Credit**

This course introduces students to human, physical, cognitive, social and emotional development beginning with conception and ending with adulthood. Theories supporting current thinking and research on human development are examined, as well as the processes and influences affecting the developing person. Further, students explore challenges to normal growth and development. Students are also eligible to participate in the Family, Career and Community Leaders of America (FCCLA) student organization when participating in this class.

### **0701 Early Childhood Education II      College Prep      Level 1      1 Credit**

#### **Prerequisite: Human Development**

Child Development is the second course in the Early Childhood Development Pathway. This course gives students an opportunity to apply the knowledge obtained in human development to better understand the physical, intellectual, social, and emotional growth and needs of children. Topics will cover the prenatal stage through school-age development of children. Students will create developmentally age appropriate activities and lessons. The course will examine theories related to child development and teach the methods that encourage positive growth in children. Opportunities to prepare nutritious meals and create a safe environment for children will also be provided.

### **0702 Early Childhood Education III      College Prep      Level 1      1 Credit**

#### **Prerequisite: Child Development**

Exploring Early Childhood is the third course in the Early Childhood Education Pathway. This course will allow students an opportunity to study more in depth topics related to the study of young children. The course includes how to develop curriculum and plan developmentally appropriate strategies to influence children's learning and demonstrate appropriate behavior management techniques for use with infants, toddlers, preschoolers, and school-age children. Students will explore the characteristics and skills required to become an early childhood education professional while learning about other related careers. CPR and First Aid Certification will be available.

### **0703 Early Childhood Education Co-op College Prep      Level 1      1/2 Credit**

#### **Prerequisite: Grade 12 ECE pathway student with appropriate job placement and satisfactory completion of level three ECE course. Dual Enrollment with Delaware Technical and Community College.**

In this off campus work opportunity, students will work with local childcare businesses to extend their understanding of, and gain valuable experience in, the childcare profession. The Co-op experience includes both related classroom instruction and on-the-job training. Credit is awarded by semester. Students may enroll in either one or two semesters. To remain in the course, the student must remain employed. This course is a pass/fail.



**0717 ECE201 Health, Safety and Nutrition/Dual Enrollment Level 3 ½ Credit**

In this course students receive an overview of the philosophy, principles and evaluation of health, safety and nutrition in education settings for young children. Age-appropriate teaching strategies are highlighted. Emphasis is on the importance of health, fitness, safety and nutrition to an individual's overall performance and behavior-socially, emotionally, and physically.

**0718 ECE217 Family, Community & School Partnerships/Dual Enrollment Level 3 ½ Credit**

This course emphasizes the importance of families in the education of young children through relevant strategies that acknowledge the structure and development of the family. The relationship of the family to educational programming and other service delivery systems is studied and techniques for building partnerships are explored.



**K-12 TEACHER ACADEMY**

**0700 Human Growth & Development College Prep Level 1 1 Credit**

This course introduces students to human, physical, cognitive, social and emotional development beginning with conception and ending with adulthood. Theories supporting current thinking and research on human development are examined, as well as the processes and influences affecting the developing person. Further, students explore challenges to normal growth and development. Students are also eligible to participate in the Family, Career and Community Leaders of America (FCCLA) student organization when participating in this class.

**0714 Teaching as a Profession College Prep Level 1 1 Credit**

Teaching as a Profession (TP) explores the role of the teacher in the past, present, and future in order to understand the importance of teaching in American society and its historical significance and social impact. Students explore the responsibilities and opportunities of an effective teacher at various grade bands and consider the function of the teacher as a leader. Students also identify personal professional goals to establish a path to becoming a teacher.



**NURSE ASSISTING**

**0705 Fundamentals of Health Sciences Level 1 1.5 Credits**

**Prerequisite: Students must be 10<sup>th</sup> grade status prior to enrolling.**

Fundamentals of Health Sciences (FHS) introduces students to careers in healthcare and is a prerequisite to the other Nurse Assisting program of study courses. This course will explore the National Consortium for Health Science Education (NCHSE) National Health Science Standards and entry level healthcare skills as well as the language of medicine. Further, this course will be offered as an articulated course with Delaware Technical Community College (BIO100 – Medical Terminology). Students begin preparation for the National Consortium for Health Science Education (NCHSE) National Health Science Assessment. **Students will be required to participate in a research project and/or field experience.**

<b>0706 Essentials of Anatomy and Physiology (EAP)</b>	<b>Level 1</b>	<b>1.5 Credits</b>
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**Prerequisite: Fundamentals of Health Sciences**

EAP introduces students to anatomy and physiology of humans including the structure and function of cells, tissues, integumentary, skeletal, muscular, nervous, and endocrine systems. Coordinated laboratory experiments are an integral part of this course. Students learn physiology of each body system, as well as how to investigate common diseases, disorders, and emerging disease. The prevention of disease, diagnosis, and treatment are addressed. Students participate in CPR/First Aid certification through the American Heart Association. Students are expected to participate in the organization for Health Care Professional. (HOSA)

<b>0707 Certified Nursing Assistant III</b>	<b>Level 2</b>	<b>2 Credits</b>
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**Prerequisite: Essentials of Anatomy and Physiology (EAP)**

The Nursing Assistant III course is the last course to satisfy the CNA Career Pathway. The course entails the clinical practicum; applying Nursing Skills and Theory knowledge to hands on practice. Students will become certified in CPR, AED, Blood Borne Pathogens, and First Aid. This level consists of a 75 hour clinical practicum, in which students are required to provide personal nursing care to residents at a local Nursing Home Facility. Students will attend clinical during school hours, and may be required to work an evening or Saturday shift to gain experience in the work environment. Successful completion of this level is required for students to be eligible to take the certification examination for the Nursing Assistant Licensure. Students may be required to pay for the certification examination. Students will prepare for employment opportunities.

## **ENGINEERING TECHNOLOGY**



Engineering Technologies gives the student an opportunity to develop an understanding of basic skills and procedures of the construction industry, and be able to communicate in the terms of the industry as well as convey design and construction information effectively. Additionally, the student has the opportunity to develop basic manual and computer aided drafting skills and to learn concepts enabling them to express their ideas through graphic language related to Architectural, Mechanical, Electrical, Structural and Civil Engineering Technology, as well as the General Construction Industry, Computer Aided Drafting using the AutoCAD 2013 & Rivet System and more advanced manual drafting assignments.

<b>0723 Foundations of Technology</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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This course prepares students with the ability to innovate, improvise, and invent solutions to engineering problems. Students explore how technological innovations result when ideas, knowledge, and skills are shared within a technological cluster and amongst other fields of study. In this course, students develop foundational skills in engineering design and documentation as a formal process to transform ideas into products or systems.

<b>0731 Computer Aided Drafting II</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Foundations of Technology.** This course is a continuation of CAD 1 with concentration on the creating and plotting of basic to moderately challenging architectural plans, elevations, details and sections, roofing plans, wall sections, stairs, window and door

details, and fireplace sections. Some basic manual drafting assignments and hands on methods and materials may be required.

**0741 Computer Aided Drafting III                      Honors                      Level 2                      1 Credit**

**Prerequisite: Computer Aided Drafting II**

This class is open to the serious drafting student who is planning post-secondary education or will enter the engineering/construction industry. It will concentrate on the design and development of more advanced plans, sections and details using sound construction practices and the latest technology and materials. The student will also create three-dimensional details related to the industry. Some more advanced manual drafting assignments and hands on methods and materials will be required as well as construction drawing interpretation, material identification and use, special projects and construction site visits.

**0745 Technology Education Co-op                      College Prep                      Level 1                      1/2 Credit**

**Prerequisite: Grade 12 Technology Education pathway student with appropriate job placement and satisfactory completion of a level 3 Tech Ed course.**

In this off campus work opportunity, students will work with local engineering businesses to extend their understanding of, and gain valuable experience in, the engineering profession. The Co-op experience includes both related classroom instruction and on-the-job training. Credit is awarded by semester. Students may enroll in either one or two semesters. To remain in the course, the student must remain employed.



**COMMUNICATION TECHNOLOGY**

**0835 Communication Technology I                      College Prep                      Level 1                      1 Credit**

This course is designed to explore and understand the creativity as well as technical skills in the area of graphic communication. Students will acquire fundamental knowledge of the principles and elements of design, digital image manipulation, and management. Careers in communications technology will be explored throughout the course.

**0836 Communication Technology II                      College Prep                      Level 1                      1 Credit**

**Prerequisite Communication Technology I**

This course allows students to demonstrate and apply technical skills in multiple media forms of communications. Emphasis is placed on developing professional-level elements for the student's portfolio. Students will produce visual announcements/advertisements, single-camera video presentation, and video editing.

**0837 Communication Technology III                      College Prep                      Level 1                      1 Credit**

**Prerequisite Communication Technology II**

This level III course allows students to demonstrate and apply technical skills learned in level II. Emphasis is placed on developing professional-level elements for the student's portfolio through project based learning. Students will produce visual announcements/advertisements, single-camera video presentations and other multimedia forms of work.

**MANUFACTURING PATHWAYS & DUAL ENROLLMENT**

<b>0790 Manufacturing Principles</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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MSS100 – Principles of Manufacturing provides students with the foundational skills needed to start a career in today's manufacturing industry. In this course, students will learn about proper tool use, production assembly, mechanical print reading, electrical wiring, welding, lock out-tag out, OSHA safety, and key manufacturing mathematical concepts. At the conclusion of this course, students will be prepared for entry into the workforce and/or continued training in a Manufacturing Pathway.

Core Course Performance Objectives:

- o Perform arithmetic operations and solve applied mathematical problems needed in manufacturing.
- o Interpret and demonstrate blueprint and schematic reading proficiency.
- o Demonstrate basic wiring techniques.
- o Demonstrate proper mechanical fabrication techniques.
- o Demonstrate proper production assembly techniques.
- o Identify basic OSHA construction and safety practices and procedures.
- o Examine career opportunities in the manufacturing industry.

This is a four course, two year pathway in which Dover High School students will take classes at the Delaware Technical and Community College Terry Campus in Dover. Transportation will be provided for classes.

### **Manufacturing Production Technician**

<b>0795 Electrical Systems and Controls</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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MSS111 – Electrical Systems and Controls provides students with the real world applications in electrical systems and controls. This course will focus on applied mathematics for electricity, AC and DC electrical circuits, electrical motor controls and concepts of Lean Manufacturing and 5-S.

<b>0796 Fluid Power</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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MSS111 – Electrical Systems and Controls provides students with the real world applications in electrical systems and controls. This course will focus on applied mathematics for electricity, AC and DC electrical circuits, electrical motor controls and concepts of Lean Manufacturing and 5-S.

### **Manufacturing Logistics Technician**

<b>0791 Manufacturing Quality, Safety &amp; Practices</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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MSS101 – Manufacturing Quality, Safety & Practices provides students with the real world applications in manufacturing quality, safety and practices. This course will focus on quality and measurement, emergency and fire safety, emergency and incident management, basic life support, material handling equipment and computer spreadsheet applications.

<b>0795 Advanced Processes and Production</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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MSS111 – Electrical Systems and Controls provides students with the real world applications in electrical systems and controls. This course will focus on applied mathematics for electricity, AC and DC electrical circuits, electrical motor controls and concepts of Lean Manufacturing and 5-S.

## **ACADEMY OF THE ARTS**

Classes offered in the Academy include: Concert Choir, Music Theory, Piano, Studio In Art, Drawing & Painting, Printmaking, Sculpture, AP Studio Art, Select Ensemble, Music Appreciation, Interactive Art History, Theatre Workshop, Dance Technique & Performance, VPAG.

Academy grades are weighted as Honors grades and the VPAG has a numeric grade. The Academy presents numerous performing opportunities for community performances, in-school Lecture Demos, and invitational performance in festivals, concerts and tours.

### **VISUAL ARTS**



Art is an arena for creative problem-solving and thinking. Art involves new ideas, invention, originality, unexpected responses, independence, discovery, experimentation, open attitudes, interaction of ideas, imagination, flexibility, self-expression, personal imagery, conceptualization of ideas, risk taking, trial and error, seeing similarities and differences, self-evaluation, making choices and decisions, and justifying these decisions. The Art Program at Dover High School has four aspects. Seeing and feeling visual relationships which is the study of aesthetics, the development of the ability to communicate personal ideas and feelings through an art vocabulary and artistic expression, the study of the heritage of works of art from many cultures, and the critical evaluation of art. These aspects of the curriculum are sequenced from level to level becoming increasingly more advanced as the student progresses through the program. Our goal is to develop each individual's unique potential through creative behavior, skill performance, and aesthetic response to his/her own artwork and the work of others.

**Academy Requirements:** Completion of arts pathway (3 credits) to include AP Studio Art and three years in VPAG.

<b><u>0822 Studio In Art</u></b>	<b><u>College Prep</u></b>	<b><u>Level 1</u></b>		<b><u>1 Credit</u></b>
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Studio In Art introduces students to the amazing world of studio art and where one can go with a creative mind. This high school studio art experience is very rigorous, the curriculum follows the National Visual Arts Standards at the proficient level while exploring drawing, painting, printmaking, and sculpture throughout the year. Units of study will include the elements of art, principles of design, realistic, abstract, functional, non-functional, manmade and natural artwork experiences. Students will participate in online and in person discussions, writing, and reading assignments will be incorporated into the creative studio experience. A passing grade in Studio In Art is a prerequisite for all other visual art courses.

<b><u>0823 Drawing &amp; Painting</u></b>	<b><u>College Prep</u></b>	<b><u>Level 1</u></b>		<b><u>1 Credit</u></b>
<b>Prerequisite: Studio In Art</b>				

Drawing & Painting takes a deeper look into the world of observational and imaginative illustration. This high school studio art experience is very rigorous. Students will explore a wide variety of media including but not limited to charcoal, soft pastel, pen and ink, acrylic, watercolor, paper, and canvas. Students will be asked to draw and paint for long periods of time needing extreme focus and attention to detail. Students will also self-evaluate and be exposed to constructive criticisms aimed to push creative exploration and production to levels never experienced before in a high school studio experience. The curriculum follows the National Visual Arts Standards at the accomplished and advanced levels while exploring personal, community, and international struggles, trials, and tribulations. Units of study will include the elements of art, principles of design, realistic, abstract, functional, non-functional, manmade and natural artwork experiences. Students will participate in online and in person discussions, critiques, writing, and reading assignments incorporated into the creative studio experience. A passing grade in Drawing & Painting is a prerequisite for other intermediate visual art courses and AP Studio Art.

<b>0824 Printmaking</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Studio In Art**

Printmaking takes a deeper look into the world of printing developed in the mid 1960's. This high school studio art experience is very rigorous. Students will work in groups rotating through various art experiences printing as a team; the traditional approach of printmaking. Students will explore a wide variety of methods including but not limited to monoprinting, multi printing, etching, and collagraphs. Students will be asked to collaborate as a team on mutual goals. Students will self-evaluate, peer evaluate and team evaluate their product and process. The curriculum follows the National Visual Arts Standards at the accomplished and advanced levels while exploring personal, community, and team endeavors. Units of study will include the elements of art, principles of design, realistic, abstract, functional, non-functional, manmade and natural artwork experiences. Students will participate in online and in person discussions, critiques, writing, and reading assignments interwoven into the creative studio experience. A passing grade in Printmaking is a prerequisite for other intermediate visual art courses and AP Studio Art.

<b>0825 Sculpture</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Studio In Art**

Sculpture takes a deeper look into the world of the third dimension. This high school studio art experience is very rigorous. Students will explore the scientific reality of gravity and its effect on creative endeavors. Planning and preparation will be more important than ever before and sweat, frustration, challenge, perseverance, and mess are guaranteed outcomes of this studio experience. The curriculum follows the National Visual Arts Standards at the accomplished and advanced levels while exploring relief, in the round, additive, subtractive, and kinetic sculpture throughout the year. Units of study will include the elements of art, principles of design, realistic, abstract, functional, non-functional, manmade and natural artwork experiences made with paper, wire, wood, glue, paper pulp, and other sculptural media. Students will participate in online and in person discussions, writing, and reading assignments will be incorporated into the creative studio experience. A passing grade in Sculpture is a prerequisite for other intermediate visual art courses and AP Studio Art.

<b>0843 AP Studio Art</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisite: Studio in Art & one other Art Elective**

A course designed for students planning further study in art at the college level. It is a yearlong course resulting in a portfolio to present to colleges for admission. The work includes drawing from life such as room interiors, still life and landscapes, figure drawing and portrait showing knowledge of composition, various spatial systems, value and light source and the ability to work in a range of styles from traditional to abstract. Twelve pieces of work are required in the breadth section showing diversity of skills. Twelve pieces are required for the concentration section of the portfolio. These works must show an in depth exploration of a particular design or drawing concern. Five quality pieces taken from either section will be sent to the College Board, along with slides of all the other work. This course involves significantly more time, afterschool, and more commitment than most high school courses, therefore, is not intended for casually interested art students. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**



## **PERFORMING ARTS**

### **DANCE**

All dance students are eligible to participate in the annual school musicals, school tours, and the week-long Dance Residency featuring professional artists and arts educators working and performing with students.

**Academy Requirements:** Minimum of 2 credits from visual or performing arts classes of a different concentration. A VPAG Capstone where an Academy student collaborates with another (or others) of a different art concentration to create a themed presentation and performance.

<b>0860 Beginning Dance</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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Students will learn the elements and principles of technique and execution of the primary styles of Dance – Ballet, Jazz, Modern and Musical Theatre Dance. Beginning dance is an introduction to improvisation and the basic principles and of composition and choreography, physiology and kinesiology and dance history. Class includes scholarship opportunities, lecture-demos, community outreach programs, residencies, workshops and field trips.

<b>0861 Dance 2 (Levels 0866, 0867, 0868)</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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Elements of dance technique and style will be used to learn repertory ballet, modern contemporary dance and musical theater pieces in different styles of dance: Russian, Balanchine, Graham, Limon, Tharp, Fosse. Class includes scholarship opportunities, lecture demos, community outreach programs, residencies, workshops and field trips. It is a continued exploration of improvisation and the basic principles and of composition and choreography, physiology and kinesiology and dance history.

<b>0862 Dance Company (Levels 0863, 0864, 0865)</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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Elements of dance technique and style will be used to learn excerpts from musicals like *Grease*, *West Side Story*, and *Sweet Charity* as well as jazz, modern, musical theatre. Students will also learn individual dances based on different dance styles and techniques (e.g., Foss). Students will acquire a more refined skill and deeper understanding of the principles of composition and choreography in relation to style, how Physiology and Kinesiology can enhance technique & style, and an exploration of Dance Timeline & History in relation to the evolution of Dance Technique, Style and Dance Revolution. Class includes scholarship opportunities, lecture-demos, community outreach programs, residencies, workshops and field trips. **Auditions Required – (successful completion of Dance 1, Dance 2 and a B+ average (90%) will satisfy audition requirement).**

<b>1865 Dance Academy</b>	<b>Honors</b>	<b>Level 2</b>	<b>1 Credit</b>
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**Prerequisite: Auditions Required.**

This program provides students curriculum and opportunities to pursue careers in dance and dance related careers as well as other performing arts careers such as theater and voice. This course also allows students to get credit for master courses/workshops offered outside of the school day. It provides for integration of the VPAG program in to an academic pathway.

**MUSIC**



**Academy Requirements:** Participation in a minimum of 1 ensemble, participation in VPAG for three years and completion of music pathway to include AP Music Theory.

<b>0805 Strings Orchestra</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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This course is for students studying string technique and its practical application of solo, chamber, and orchestral performance. This course is designed to strengthen and enhance existing technique. Topics to be covered include arpeggios, irregular fingering patterns, tone production, and tuning. Covering works by various composers of Baroque classical and Rounautic, Modeau periods.

<b>0817 Dover High School Senator Band</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
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**Prerequisite: Audition**

Dover High School Band is composed of students from grades 9-12. It is open by audition only, as prior music experience is required. Students coming to high school from middle school will audition in January. Pom-Pom girls, drum majors, color guard, and silks will be selected from second, third and fourth year members of the band. The main objective of this band is to give each member the best possible instrumental training. The band meets five days a week. During concert season, this band is split into two different bands; the Symphonic Band (0812) and the Wind Ensemble Band (0810). In September students will be assigned to a specific, concert-season band. This wind ensemble band will be the top performing and traveling band.

<b>0812 Symphonic Band</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
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The Symphonic Band meets after marching season. The band is made up of students who are working towards benchmark achievement based on the audition. In order to make this ensemble, you must audition and have 4 years of playing experience on a woodwind or percussion instrument.

<b>0810 Wind Ensemble</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
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The Wind Ensemble meets after marching season. In order to make this ensemble you must audition and have 4 years of playing experience on a woodwind or percussion instrument. Students are selected based on meeting benchmarks in performance and skills.

<b>0819 Jazz Band</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Audition**

The Jazz Band is made up of musicians with experience in the jazz or modern style of music. In order to be selected for this ensemble, you must audition and have 4 years of playing experience on a woodwind, percussion, or rhythm instrument. Students are selected based on meeting benchmarks in performance and skills.

<b>0894 DrumLine</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Audition**

The purpose of this course is to teach the fundamentals percussion skills as well as the team work and marching skills necessary to function as a fully integrated drumline.



**MUSIC ELECTIVES**

Students must be able to enroll in a particular section during the time slot it is offered, noting that due to instructor availability, all sections will be offered during the same class period.

<b>0893 Beginning Piano</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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Starting from scratch, students will develop the competencies necessary for a lifetime of growth and participation in music. Competencies covered will include note reading, physical technique, basic theory such as scale and chord building, as well as clues for performing in different settings such as solo, with groups of different genres, and as an accompanist. **Seats are limited.**

<b>0801 Integrated Art History</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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A broad-based and focused, historical education in the arts—painting, sculpture, music (vocal & instrumental), film, photography, dance and theatre are coupled with actual studio experience (to be fulfilled in their art classes). A general historical overview of the Arts to develop an informed view of the arts in a given period, such as the Renaissance, Baroque/Classical Romantic, 19<sup>th</sup> & 20<sup>th</sup> century, and the Modern Age.

<b>0873 Music Technology</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
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This class will explore the inner workings of music from a technological aspect. These include but are not limited to: Audio Engineering - including microphones, mixers, amplifiers, speakers, etc., Recording Engineering - including mixing consoles, studio equipment and sound editing software, and any other items dealing with the Music Industry. Students

will be expected to have an interest in, or have experience in some type of music as well as a dedication to attending some ensemble concerts and other events held outside of school hours.

<b>0800 Music Appreciation/Steel Drums</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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The purpose of this class is to introduce students to the historical perspective of music and the study of music fundamentals. This class will study music time periods from the Renaissance Era through the Modern Music Era. Many forms and elements of music will be discussed and researched. This course has been developed for non-music majors and covers the cultural contexts of music. This course is an elective. **Seats are limited.**

This course is designed to offer a musical education to every student. Students will learn about the role music plays in culture and psychology, and they will complete the course with a readiness to experience a lifetime of musical experiences ranging from active listening, analysis, critique, and performance alone or in groups. It combines national music standards from multiple domains: Composition/Theory, Guitar/Chordal Harmonizing Instruments, Ensemble, and deepened General Music.

Music Appreciation: In Music Appreciation, students will explore music within our culture. Students will debate the morality of copyright laws specifically regarding samples in hip-hop, exploit the power music has over consumers through media, learn the basics of music notation, rhythmic composition, and performance, and much more.

Steel Drums: Students of all experience levels will learn to read music, improvise, and apply the principles of harmony through practice and performance. Repertoire will include contemporary popular, classical, and traditional Caribbean works. A portion of students' grade will be based on participation in performance outside of class.

<b>0884 Music Theory</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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This class will explore the inner workings of music and how the elements of music are organized to create music. Specific areas to be studied will include: scales, melodies (both simple and complex), chords, harmony and harmonic progressions. The students in this class will be required to write many musical compositions. Students will also explore more complex harmonies and harmonic progressions associated with the minor modes and with altered chords as well as more complex and diverse melodies. Different styles of music will be explored as well as written. This class will also explore the rich and vast tonal language of 20th century music. It will also cover transposition, arranging and orchestration. Ear training will also be an integral part of the class. This class will also make extensive use of the computer, synthesizers, wind machines, drum machines and recording devices to write and create music.

<b>0880 Ear Training and Composition</b>	<b>College Prep</b>	<b>Level 2</b>	<b>1 Credit</b>
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Students will learn techniques for successful melodic, harmonic, and rhythmic dictation. In other words, they will learn how to use the sum of their knowledge and training to successfully write and perform music by ear. Students will identify specific notes, chords, and rhythms using a variety of tools and contextual clues. Students will then be able to develop rules and

techniques for composition using a primarily historical context. Students will study the history and compositional techniques of periods throughout time and compose appropriate works. Time periods to be covered may include Medieval, Renaissance, Baroque, Classical, Romantic, 20<sup>th</sup> Century

<b>0883 AP Music Theory</b>	<b>Advanced Placement</b>	<b>Level 3</b>	<b>1 Credit</b>
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**Prerequisites: Successful completion of 0881, 0882 and 0891**

The AP Music Theory course is comparable in content and expected level of accomplishment to a first-year course in college. This course integrates the study of melody, harmony, texture, rhythm, and form. Much time is devoted to the analysis of notated examples, development and acquisition of aural skills, keyboard harmony, part-writing, harmonization, and listening. Students will be studying major-minor tonalities, as well as twentieth-century atonal and semi-tonal techniques and terminologies. This is not a composition course, and students will do very little in the way of original composition or music writing. **Students are required to take the Advanced Placement Examination in May and depending upon the exam score may earn college credit or advanced placement. Financial aid is available.**

**CHORAL**



**Academy Requirements:** Participation in a minimum of 1 ensemble, participation in VPAG for three years and completion of music pathway to include AP Music Theory.

<b>0871 Concert Choir</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: By audition only**

The Concert Choir is the largest performing Chorus at Dover High School. The Concert Choir is composed of students from grades 9-12 who score 150 points on the combined written/singing audition test. Emphasis is placed on good vocal/choral techniques, interpretation, breathing, vowel formation, tone quality, sight-reading, and musicianship. The main objective of this chorus is to give each member the very best possible vocal/choral training. All students who are in concert choir are eligible to audition for placement in the: Men's Choir, Women's Choir, Gospel Choir and the Show Choir. Students with one year experience in Concert Choir are then eligible to audition for placement into the Select Ensemble. Various style of music will be performed throughout the year. The Concert Choir performs concerts in the Fall, Winter and Spring as well as competing in our annual Spring Adjudication Festival at locations throughout the United States.

<b>0872 Select Ensemble</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: By audition only**

The Select Ensemble is the smallest performing Choir in the Choral program, but is also the top performing choral group at Dover High School. Members earn the right to be in this organization by scoring the highest in their respective section on the Chorus Audition. Each member of the Select Ensemble is expected to be enrolled in, or to perform with, the Concert Choir. Greater emphasis is placed on choral/vocal techniques, blend, balance, interpretation, breathing, vowel formation, and timbre and tone quality. Various styles of music will be performed throughout the year, including medium to advanced collegiate repertoire.

The Select Ensemble performs concerts in the Fall, Winter and Spring as well as competing in our annual Spring Adjudication Festival at locations throughout the United States. The Select Ensemble also performs for numerous community organizations throughout the year. Students enrolled in the Select Ensemble are expected to attend all of the required performances, make a valid attempt to participate in our Spring Adjudication Festival, and attend most community performances.

## **DRAMA**



<b>0815 Introduction to Drama</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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This course is designed for students with little or no theater experience. In a workshop setting, students will be introduced to the skills of acting. Focus will be on training the voice and body through pantomime and vocal exercises, creating believable characters, performing written verse, and improvising scenes. Students will also be required to learn basic theater terminology and etiquette. As a culminating activity, the students will star in several short scenes, to be performed for an audience.

<b>0816 Theater Workshop</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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This course builds upon the skills learned in Introduction to Theater. Students will continue vocal and physical training to create believable characters, as well as perform improvisational and scripted scenes. In addition to acting, students will learn the basics of stagecraft, stage make-up, costume design, and technical theater. Throughout the semester, students will apply this knowledge by producing, directing, casting, and performing several one-act plays to be performed for an audience. Additional written work is required for a passing grade.

## **PHYSICAL EDUCATION/HEALTH**



<b>0911 Fitness for Life</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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**Target: 9<sup>th</sup> grade students**

Students participate in activities that are best suited for the season of the year. Basic instruction includes rules and regulations as well as the skill development of a particular activity. Students are given both skill performance and written tests. Group activities include basketball, volleyball, soccer and softball. Individual activities include tennis, pickleball, table tennis, weight training, and physical fitness testing. Emphasis is placed on daily participation, changing into a prescribed gym uniform is required. The course meets 5 days per week for 1 semester. No student may enroll in consecutive semesters during the same school year. One full credit or two sessions of Physical Education are required for graduation.

<b>0912 Team Sports</b>	<b>Level 1</b>	<b>1/2 Credit</b>
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The purpose of the elective course is to provide students opportunity to increase social physical skills through a variety of team sports. Depending on the season, students would participate in basketball, volleyball, soccer, and floor hockey. Students would participate in flag football, softball, lacrosse, and ultimate Frisbee. Team and individual strategies are taught and game situations are used. Students will develop knowledge and skill in a variety of

physical activities and will develop effective sportsmanship, cooperation, safety, and social habits. This class is one semester.

**0916 Individual/Dual Sports** **Level 1** **1/4 Credit**

**Prerequisite: Fitness for Life must be blocked with Drivers Education; 10<sup>th</sup> grade students**  
This course is designed to build on their personal fitness level established in the fitness for life. The emphasis is placed on lifetime activities & skills which include pickleball, badminton, tennis, Ping-Pong, Frisbee golf and one-wall handball. Students will be provided with the knowledge, and skills necessary for use of leisure time, and the ability to perform activities that allow for a healthy lifestyle. This class is one semester.

**0917 Weight Training and Conditioning** **Level 1** **1/2 Credit**

Weight training is a course designed to develop an appreciation for the lifelong value of strength improvement. The students will develop an acceptable level of strength through a variety of weight lifting activities. As a result of participating in the weight training experience the student will develop a positive self-concept, appropriate social and emotional behaviors and an appreciation for individual differences. This class is offered for one quarter.

**0918 General Fitness** **Level 1** **1/2 Credit**

This course provides students with a combination of cardiovascular activities, step aerobics and weight training. Students will participate in weight training, cardio kickboxing, Pilates, line dancing and yoga to allow students to enhance fitness levels, muscular strength, endurance, flexibility and body composition. Students will be introduced to the benefits of exercise and ways to improve overall health. This class is offered for one semester.

**0921 Health** **College Prep** **Level 1** **1/2 Credit**

Health education will bring many facets of healthy living to the attention and study of pupils. Topics covered will include alcohol and other drugs, community and environmental health, injury prevention, mental health, nutrition, personal and consumer health, physical activity, family health, sexuality and tobacco. A variety of outside resources will be used to supplement this course. This course is required for graduation.

**DRIVER'S EDUCATION**



**0930 Driver Education** Birthdate before Sept. '02

**0931 Driver Education** Birthdate Sept. – Nov. '02

**0932 Driver Education** Birthdate Dec. – March '03

**0933 Driver Education** Birthdate April – July '03 **Level 1** **1/4 Credit**

**Prerequisite: Student must be enrolled in the 10th grade. \*Course blocked with 0916-Individual/Dual Sports. Students must be in 10th grade and enrolled prior to October 1st.**

This course consists of both class work and in-the-car driving experience. Upon successfully completing this course, the student will be able to obtain a Delaware Level 1 Learner's Permit. STUDENTS MAY NOT REPEAT THIS COURSE. THE STUDENT MUST BE AT LEAST 15 YEARS OF AGE BY JANUARY 1 OF THE ENROLLED SCHOOL YEAR IN ORDER TO ENROLL IN THIS

COURSE. The student must have a signed parent permission form on file prior to taking Driver Ed. There is no guarantee that this course will be available to students in the quarter in which their 16th birthday is celebrated. As of July 1, 2000, students must pass at least five (5) subject areas during the quarter in order to receive a "Blue Slip," just as they must do to be eligible to play school athletics. Scheduling by birthdate will be accomplished to the best of our administrative ability. Student attendance and grades may impact scheduling of driver education class.



## **JOBS FOR DELAWARE GRADUATES**

The JDG program is designed to help students reach academic and career goals. The curriculum includes 17 school-to-work transition competencies per year. JDG is an approved career pathway. All JDG students are eligible for membership in the Delaware Career Association (DCA), a youth organization that enhances the classroom instruction with field trips, group activities, and state conferences. The four goals of DCA are leadership development, citizenship, social awareness, and career preparation. The JDG Specialist is available to assist students in finding jobs in the career of their choice during the school year, in the summer, and for 12 months following graduation.

<b>0925 JDG Level 1</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
The level 1 JDG course includes: Study skills, goal plan, personal grooming, decision making, career path, positive attitude, coping with change, values clarification, image assessment, workplace success, life skills math, conflict resolution, and group dynamics.			
<b>0926 JDG Level 2</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
The level 2 JDG course includes: Problem solving, goal setting, career interests, workplace math, teamwork, courtesy and respect, leadership skills, money management, completing job applications, customer service, workplace diversity, entrepreneurship, and learning insurances.			
<b>0936 JDG Level 3</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
The level 3 JDG course includes: Career vocabulary, resume writing, sources of jobs, telephone skills, critical thinking and listening skills, personal budgeting, occupational preferences, career manual, verbal presentations, constructive criticism, stress management, and professional ethics.			
<b>0946 JDG Level 4</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
The level 4 JDG course includes: Organization and time management, choosing career attire, cover letters, resumes and references, employment interviews, job survival, performance evaluations, business etiquette, employee rights, pay and benefits, financial planning, writing a letter of resignation, and career portfolio. Each senior will develop a Career Portfolio that includes a resume, references, a sample job application, and commendations. <b>If approved by the school counselor, JDG may be the student's co-op class ONLY if JDG is the student's pathway.</b>			
<b>0947 JDG Job Co-Op</b>	<b>College Prep</b>	<b>Level 1</b>	<b>½ Credit</b>
<b>Prerequisite: Grade 12 Only. Course will be scheduled twice for students earning a full credit. Student employment is required.</b>			

This course provides experience in the business community. It is designed to provide training and practice towards a career, through actual work experience. Any student enrolling in the course must currently be enrolled in Jobs For Delaware Graduates 12 (0947) and must have the approval of the Jobs For Delaware Graduates Specialist. Students may enroll for either one or two semesters. This course is open to seniors only. To remain in the course after October 1, the student must be employed.

**In order to schedule the JDG class, a student must meet enrollment criteria and as approved by the JDG Specialist and school counselor.**

## **PEER GROUP CONNECTIONS**

<b>0968 Peer Group Connections (PGC)</b>	<b>College Prep</b>	<b>Level 1</b>	<b>1 Credit</b>
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**Prerequisite: Must be a senior. Must go through an interview process to be selected.**

Peer leaders will work in pairs to utilize the leadership skills they develop in the course to conduct weekly outreach sessions with small groups of 9<sup>th</sup> graders. Peer leaders will learn decision making, problem-solving, goal setting, teamwork, negotiation, refusal, group facilitation giving and receiving feedback, active listening, time management and self-assessment skills. Topic areas addressed include personality and work styles, interpersonal relationships, the connection between academic success and life after high school, the importance of attending school regularly, planning for the future, parent-teen communication, decision making, cultural diversity, and safety. Student assessment will be based upon mastery of leadership skills, role modeling, class participation and self-assessments.

## **COMMUNITY SERVICE**



<b>0968 Fire Safety</b>	<b>Pass/Fail</b>	<b>Level 0</b>	<b>1 Credit</b>
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**Prerequisite: Service as Volunteer Fireman/Fire Company sending to Fire School**

This course includes participation in courses at the Delaware Fire School and working at your local Fire Station. Evaluation of the student will be done by the fire chief or his designee. You must be a volunteer fireman at a local fire company. See counselor for credit requirements.

<b>3012 Delaware Volunteer Credit Program</b>	<b>Pass/Fail</b>	<b>Level 0</b>	<b>1 Credit</b>
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The Delaware Volunteer Credit Program (DVC) is a partnership between the Department of Education and the State Office of Volunteerism. It allows students in grades 9 through 12 in participating schools to earn one elective high school credit towards graduation by completing 90 hours of community service. Students will also receive a certificate of recognition signed by the Governor and the Secretary of the Department of Education. This program serves as a wonderful way to help young people build portfolios for college entrance, compete for scholarships, or attain employment. Please see your guidance counselor to discuss the 90 hours of service and other requirements.



## **ADDITIONAL COURSES**

<b>2751 Print Shop</b>	<b>Level 0</b>	<b>1/4 Credit</b>
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**Guidance determination.** The Dover High School Print Shop, a student-operated business specializing in imprinted garments, school supplies, and other merchandise, provides selected students with job experience in preparation for the world of work. The Print Shop also provides copy and lamination services for building staff as well as many other services associated with a copy center. Students who successfully complete the course receive a quarter credit per marking period.

<b>0175 VPAG</b>	<b>Pass/Fail</b>	<b>Level 0</b>	<b>1/2 Credit</b>
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The Program provides non-academy students opportunities to explore visual and performing arts to explore and showcase their performing and creative talents. The program provides opportunities for creative collaboration with artists of other disciplines. Class includes scholarship opportunities, performances, lecture-demos, community outreach programs, master classes, residencies, and field trips. This is a full-year program. Class meets once a week for 1 hour.

<b>6006 College Attend</b>	<b>0 Credit</b>
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**Prerequisite: Administrative Approval**

Students may be scheduled to be off campus if they are enrolled in an approved, for credit, college course. **Proof of enrollment must be provided.**



# **APPENDIX**

## **Alpha Listing of Courses by Department**

### **AGRI-SCIENCES**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0497	Early Career Exploration Animal Sci	0	1	12
0476	Animal Science I	1	1	09-12
0477	Animal Science II	1	1	09-12
0478	Animal Science III	1	1	09-12
0479	Animal Science IV/Vet Tech	1	1	09-12
0493	AP Environmental Sciences	3	1	10-12
0490	Environmental Science Issues	2	1	10-11
0484	Environmental III	2	1	10-12
0489	Natural Resources and Ecology	1	1	9-10

### **AIR FORCE JUNIOR ROTC**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0216	Aerospace Science 1	1	1	09
0226	Aerospace Science 2	1	1	10
0256	Aerospace Science 3	1	1	11
0276	Aerospace Science 4	1	1	12

### **BUSINESS, FINANCE & MARKETING**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0600	CORE Business	1	1	09
0637	Early Career Exploration Marketing Communication	1	½	12
0671	Marketing Management II	1	1	11-12
0672	Marketing Management III	1	1	11-12
0661	Fundamental of Finance	1	1	9
0662	Principles of Accounting	1	1	10-11
0663	Financial Services	1	1	11-12

### **NURSE ASSISTING**

<b>Number</b>	<b>Credit</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0705	Fundamental of Health Sciences	1	1.5	9-12
0706	Essentials of Anatomy and Physiology	1	1.5	10-12

0709	Certified Nursing Assistant III	1	2	10-12
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### COMMUNITY SERVICE

Number	Course Name	Level	Credit	Grade
3012	Delaware Volunteer Credit Program (after school)	0	1	09-12
0968	Fire Safety (after school)	0	1	11-12

### CULINARY ARTS

Number	Course Name	Level	Credit	Grade
0780	Fundamentals of Culinary Arts & Hospitality	1	1	9-12
0783	Adv. Food Production & Hospitality Mgmt.	1	1	10-12
0784	The Culinary & Hospitality Professional	1	1	10-12
0785	Early Career Exploration Culinary & Hospitality	1	½	11-12

### DIVERSIFIED OCCUPATIONS

Number	Course Name	Level	Credit	Grade
0948	Diversified Occupation	0	½	12

### DRIVERS EDUCATION

Number	Course Name	Level	Credit	Grade
0930	Driver Education - Q1 Birthdate before Sept. '02	1	¼	10
0931	Driver Education -Q2 Birthdate Sept.-Nov. '02	1	¼	10
0932	Driver Education - Q3 Birthdate Dec.-March '03	1	¼	10
0933	Driver Education - Q4 Birthdate April-July '03	1	¼	10

### EARLY CHILDHOOD TEACHER ACADEMY

Number	Course Name	Level	Credit	Grade
0700	Human Growth and Development	1	1	09-12
0701	Early Childhood Education II	1	1	10-12
0702	Early Childhood Education III	1	1	11-12
0703	Early Childhood Education Co-op/Tutoring Internship	0	½	12

0717	ECE 201 – Health, Safety & Nutrition Dual Enrollment	3	½	12
0718	ECE217 Family, Community & School Partnerships - Dual Enrollment	3	½	12

### **ARCHITECTURAL ENGINEERING TECHNOLOGY**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0723	Foundations of Technology	1	1	09-12
0731	Computer Aided Drafting II	1	1	10-12
0741	Computer Aided Drafting III	1	1	10-12
0745	Technology Education Co-Op	0	½	12

### **ENGLISH**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0151	Competitive Public Speaking (after school)	0	½	09-12
0179	Creative Writing	1	½	10-12
1114	English 09 CP	1	1	09
0111	English 09 CP	1	1	09
0112	English 09 Honors	2	1	09
1124	English 10 CP	1	1	10
0121	English 10 CP	1	1	10
0122	English 10 Honors	2	1	10
1134	English 11 CP	1	1	11
0131	English 11 CP	1	1	10
0132	English 11 Honors	2	1	11
0133	AP LANGUAGE	3	1	11
0143	AP LITERATURE	3	1	12
1144	English 12 CP	0	1	12
0141	English 12 CP	1	1	12
0144	ENG121 DUAL ENROLLMENT	3	1	12
0156	Introduction to Journalism	1	1	09-12
0157	Advanced Journalism	1	1	10-12
0177	Publications	1	1	10-12
0100	Read 180	1	1	9-10
0118	System 44	1	1	9

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**VISUAL ARTS**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0822	Studio in Art	1	1	09-12
0823	Drawing & Painting	1	1	09-12
0824	Printmaking	2	1	09-12
0825	Sculpture	2	1	09-12
0843	AP Studio Art	3	1	11-12

**PERFORMING ARTS**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0860	Beginning Dance	1	1	09-12
0861	Dance 2 /Advanced	1	1	09-12
0862	Dance Company	1	1	09-12
0815	Introduction to Drama	1	½	09-12
0816	Theater Workshop	1	½	09-12
0175	VPAG (non academy)	0	½	09-12
1865	Dance Academy	2	1	9-12

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0883	AP Music Theory	3	1	12
0871	Concert Choir	1	1	09-12
0819	Jazz Band	1	1	09-12
0800	Music Appreciation/Steel Drums	1	1	09-12
0873	Music Technology	1	½	09-12
0884	Music Theory	1	1	09-12
0880	Ear Training and Composition	2	1	09-12
0893	Beginning Piano	1	1	09-12
0801	Integrated Art History	1	1	09-12
0872	Select Ensemble	1	1	09-12
0817	Senator Band	1	½	09-12
0805	Strings Orchestra	1	1	09-12
0812	Symphonic Band	1	½	09-12
0810	Wind Ensemble Band	1	½	09-12
0894	DrumLine (after school)	1	1	09-12

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**HISTORY AND SOCIAL SCIENCES**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0263	AP Macroeconomics (computer based)	3	½	11-12
0243	AP Microeconomics (computer based)	3	½	11-12
0236	AP Comparative Government	3	1	10-11
0273	AP European History	3	1	12
0272	AP Human Geography	3	1	9-12
0253	AP Psychology	3	1	11-12
0233	AP U.S. Government & Politics	3	1	10-11
0223	AP United States History	3	1	11-12
0281	Civil Law	1	½	10-12
0266	Civil War	1	½	10-12
0271	Constitutional Law	1	½	10-12
0291	Criminal Justice	1	1	10-12
0237	Economics CP	1	½	10-11
1237	Economics CP	1	½	10-11
0231	Political Science CP	1	½	10-11
1234	Political Science CP	1	½	10-11
0251	Psychology	1	½	11-12
0261	Sociology	1	½	11-12
0221	United State History CP	1	1	11-12
1224	United States History	1	1	10-11
1214	World History CP	1	1	09
0211	World History CP	1	1	09
0212	World History/Honors	2	1	09
0267	World War II	1	½	10-12
0274	Personal Finance	1	½	11-12

**HVACR**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0770	HVACR/Sheet Metal Technician I	1	1	9-12
0771	HVACR/Sheet Metal Technician II	1	1	9-12
0772	HVACR/Sheet Metal Technician III	1	1	9-12
0773	HVACR/Sheet Metal Technician Co-op	0	½	12

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**JOBS FOR DELAWARE GRADUATES**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0925	JDG – Level 1	1	1	9
0926	JDG – Level 2	1	1	10
0936	JDG – Level 3	1	1	11
0946	JDG – Level 4	1	1	12
0947	JDG Co-Op	0	½	12

**MANUFACTURING**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0790	Principles of Manufacturing	1	1	11
0791	Logistics I: Quality/Safety/Practice	1	1	11
0792	Logistics II: Advanced Proc & Prod	1	1	12
0793	Logistics III: Advanced Handling & Log	1	1	12
0795	Production I: Electrical Sys and Cont	1	1	11
0796	Production II: Fluid Power	1	1	12
0797	Production III: Elec-Mech Systems	1	1	12

**MATHEMATICS**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0359	Advanced Topics in Mathematics	1	1	12
0381	Algebra 1 CP	1	1	09
1384	Algebra 1 CP	1	1	09
0382	Algebra 1 Honors	2	1	09
0321	Geometry CP	1	1	10
1324	Geometry CP	1	1	10
0322	Geometry Honors	2	1	10
0361	Algebra 2 CP	1	1	10-12
1362	Algebra 2 CP	1	1	10-12
0362	Algebra 2 Honors	2	1	09-12
0371	Algebra 3	1	1	11-12
0374	Pre-Calculus	1	1	11-12
0372	Pre-Calculus, Honors	2	1	11-12
0341	AP Calculus	3	1	12
0393	AP Statistics	3	1	12

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**PEER GROUP CONNECTIONS**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0924	Peer Group Connections	1	1	12

**SCIENCE**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0463	Anatomy & Physiology	1	1	11-12
0453	AP Biology	3	2	10-12
0433	AP Chemistry	3	2	11-12
0443	AP Physics	3	2	11-12
0493	AP Environmental	3	1	11-12
0468	BIO 120/DUAL ENROLLMENT	3	1	12
0421	Biology CP	1	1	10
0422	Biology Honors	2	1	9-10
1424	Biology CP	1	1	10
0431	Chemistry CP	1	1	11-12
0432	Chemistry Honors	2	1	10-12
1431	Chemistry CP	1	1	11-12
0451	Forensics	1	1	11-12
0442	Physics Honors	2	1	11-12
0412	Physical Science Honors	2	1	09
0411	Physical Science CP	1	1	09
1414	Physical Science CP	1	1	09

**WORLD LANGUAGES**

<b>Number</b>	<b>Course Name</b>	<b>Level</b>	<b>Credit</b>	<b>Grade</b>
0551	French 1	1	1	09-11
0561	French 2	1	1	10-12
0562	French 3	3	1	11-12
0563	French 4	3	1	11-12
0564	French AP	3	1	11-12
0511	Spanish 1	1	1	09-11
0512	Spanish 1, Honors	2	1	09-11
0521	Spanish 2	1	1	10-12
0522	Spanish 2, Honors	2	1	09-12

0531	Spanish 3	3	1	10-12
0542	Spanish 4	3	1	11-12
0543	Spanish AP	3	1	11-12

## **DHS RECOMMENDED SCIENCE/MATH PLANNING GUIDE/COURSE SEQUENCE**

<b>MATH LINK</b>	<b>SCIENCE LEVEL</b>	<b>GRADE 9</b>	<b>GRADE 10</b>	<b>GRADE 11</b>	<b>GRADE 12</b>
Honors Geometry 0322	AP	Level II *1.05 Honors Biology 0422	Level II *1.05 Honors Chemistry 0432	Level III 1.07 AP Chemistry 0433 And/or AP Biology 0453	Level III 1.07 AP Physics 0443 and/or AP Biology 0453
Honors Algebra 1 0382	Honors	Level II 1.05 Honors Physical Science 0412	Level II 1.05 Honors Biology 0422	Level II 1.05 Honors Chemistry 0432	Level II 1.05 Honors Physics 0442 Electives: AP Chem, AP Bio, AP Physics, Forensics, or Anatomy & Physiology
Algebra 1 0381	College Prep	Level I 1.03 Physical Science 0411	Level I 1.03 Biology 0421	Level I 1.03 Chemistry 0431	Level I 1.03 Forensics, or Anatomy & Physiology

**\*Course recommended for AP Track**

**\*\*Anatomy and Physiology and Forensics are one year courses. The prerequisite for Forensics is Chemistry. Both courses are electives and cannot be substituted for Physical Science, Biology and Chemistry.**

**NOTE: Levels I, II, III indicate difficulty of the course. Students may choose electives of varying levels with instructor recommendation**