



# DOVER HIGH SCHOOL

## Course Catalog



# CAPITAL SCHOOL DISTRICT

Central Administrative Office  
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Dover, Delaware 19904  
Telephone: (302) 672-1500

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# CAPITAL SCHOOL DISTRICT

## DOVER HIGH SCHOOL

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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

- 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 Teachers Association
- Health Occupations Students of America (HOSA)
- Interact
- Japanese Club
- Later Lotus
- Life Advisory
- Math League
- MLK Scholars
- 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.

Grade 09		Grade 10		Grade 11		Grade 12	
	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 Elective	
World History	1	Economics & Political Science	1/2 1/2	US History	1	Social Science 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	1
Total	8	Total	8	Total	8	Minimum	5

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 .... christopher.mcguire@capital.k12.de.us . . (302) 241-2425  
 F-K ..... Mrs. Kellam .... takara.kellam@capital.k12.de.us . . . . . (302) 241-2426  
 L-R. .... Mrs. Gronau .... shannon.gronau@capital.k12.de.us . . . . (302) 241-2422  
 S-Z. .... Mr. Sherrod .... avery.sherrod@capital.k12.de.us . . . . . (302) 241-2421  
 9<sup>th</sup> grade... Mrs. Tooles..... melissa.tooles@capital.k12.de.us . . . . . (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, 2019. 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 10<sup>th</sup> 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 situations:

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 prerequisite

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 9<sup>th</sup> 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 résumé.

### 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 résumé.
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.

## Grade 11

## 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 [www.doverhigh.capital.k12.de.us/departments/guidance](http://www.doverhigh.capital.k12.de.us/departments/guidance) 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 second 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're considering.
6. Prepare and submit application packages. Review deadlines and requirements, such as test scores, transcripts, essays, and recommendations.
7. 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. 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 your counselor.

### In the SPRING

1. After January 1st 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!
  - **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 beginning sophomore year)
      - 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.
  - **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 to obtain more information go to: [www.techprepdelaware.org](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 and 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

What?	Credits Required	Comment
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
Supporting Coursework		
Physical Education	1	
Health	½	
Career Pathways	3-4	
Additional Coursework	3½-4½	

**Total Units of Credit Needed:** 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.

<b>Level 0</b>	<b>Co-op/Non-Academic Courses</b>	<b>1.00 quality pts.</b>
Ability:	General to average	
Emphasis:	Fundamentals plus encouragement of independent work style and analytical thinking	
Study beyond class:	Some work daily	
Career goal:	To pursue a career immediately after high school	

<b>Level 1</b>	<b>College Preparatory</b>	<b>1.03 quality pts.</b>
Ability:	Average to above average	
Emphasis:	In-depth study, problem solving and analysis; some sustained projects; much independent work	
Study beyond class:	Significant amount daily	
Career goal:	To enter a two- or four-year college after high school or to combine a career and a part-time college program	

<b>Level 2</b>	<b>Honors</b>	<b>1.05 quality pts.</b>
Ability:	Superior	
Emphasis:	In-depth study; problem solving and analysis; many sustained projects; extensive independent work	
Study beyond class:	Extensive amount daily	
Career goal:	To enter college after high school	

<b>Level 3</b>	<b>Advanced Placement/Dual Enrollment*</b>	<b>1.07 quality pts.</b>
Ability:	Superior—most courses come with a prerequisite. Check listing.	
Emphasis:	College-level study; advanced problem solving and analysis; many sustained projects; dominantly independent work	
Study beyond class:	Extensive amount daily	
Career goal:	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 9<sup>th</sup> 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 2022:** In order for a student to enter the 10<sup>th</sup> grade, the student must successfully complete 6 credits which must include the following:

*1 credit in English; 1 credit in Math; 1 credit in Social Sciences and/or Science*

**Class of 2021:** In order for a student to enter the 11<sup>th</sup> grade, the student must successfully complete 11 credits which must include the following:

*2 credits in English; 2 credits in Math; 1 credit in Social Sciences and/or Science*

**Class of 2020:** In order for a student to enter the 12<sup>th</sup> grade, the student must successfully complete 16 credits which must include the following:

*3 credits in English; 3 credits in Math; 2 credits in History and Social Sciences; 2 credits in Science; ½ credit in Physical Education; 1 credit in World Language*

\* All college courses, tutoring, correspondence, and individual projects required for graduation must be completed by May 15, 2020.

## ADVANCED PLACEMENT (AP) PROGRAM

### What is AP?

AP is a program 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 10<sup>th</sup> 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.
- 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 Science

#### 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 Design  
AP Studio Art–3D Design  
AP Music Theory History  
AP U.S. History  
AP U.S. 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.

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

## Division I

- Students with 2.3 GPA must score 900 on SAT or a combined score of a 75 on ACT
- Students with 2.5 GPA must score 820 on SAT or a combined score of a 68 on ACT
- Students with 3.0 GPA must score 620 on SAT or a combined score of a 52 on ACT

## Division II

- No sliding scale for GPA
- Earn a core course GPA of at least 2.0
- 820 SAT score or a combined score of a 68 on the ACT



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

## NCAA CLEARINGHOUSE APPROVED COURSES AT DHS

### ENGLISH

ENGLISH 9 CP                      ENGLISH 9 H  
ENGLISH 10 CP                    ENGLISH 10 H  
ENGLISH 11 CP                    ENGLISH 11 H  
ENGLISH 12 CP  
AP ENGLISH LITERATURE & COMPOSITION  
AP ENGLISH LANGUAGE & COMPOSITION

### SCIENCE

ANATOMY & PHYSIOLOGY  
BIOLOGY/AP  
BIOLOGY CP  
BIOLOGY/H  
CHEMISTRY/AP  
CHEMISTRY CP  
CHEMISTRY/H  
ECOLOGY CP  
FORENSICS  
PHYSICAL SCIENCE/CP  
PHYSICAL SCIENCE/H  
PHYSICS/AP  
PHYSICS/H

### MATHEMATICS

ALGEBRA 1 CP  
ALGEBRA 1 H  
GEOMETRY CP  
GEOMETRY H  
ALGEBRA 2 CP  
ALGEBRA 2 H  
ALGEBRA 3 CP  
PRE-CALCULUS  
PRE-CALCULUS H  
AP STATISTICS  
AP CALCULUS

### LANGUAGES

FRENCH 1  
FRENCH 2  
FRENCH 3  
FRENCH 4  
AP FRENCH  
SPANISH 1  
SPANISH 2  
SPANISH 3  
AP SPANISH

### SOCIAL SCIENCES

CIVIL LAW  
CIVIL WAR  
CONSTITUTIONAL LAW  
CRIMINAL JUSTICE  
ECONOMICS  
NON-WESTERN WORLD  
POLITICAL SCIENCE  
PSYCHOLOGY  
SOCIOLOGY  
US HISTORY  
WORLD HISTORY  
WORLD HISTORY/H  
WORLD WAR II  
AP COMPARATIVE GOVERNMENT  
AP EUROPEAN HISTORY  
AP HUMAN GEOGRAPHY  
AP MACROECONOMICS  
AP MICROECONOMICS  
AP PSYCHOLOGY  
AP US GOVERNMENT AND POLITICS  
AP US HISTORY

## COLLEGES AND UNIVERSITIES

The following are the colleges and universities admitting members of the Dover High School Class of 2018.

Albright College	Lebanon Valley College	Tulane University
Brigham Young University	Liberty University	University of Alabama
Cabrini University	Lipscomb University	University of Chicago
Clark Atlanta University	Marymount University	University of Colorado
Clemson University	Mercyhurst University	University of Delaware
College of Charleston	Morgan State University	University of Maryland
College of William and Mary	Morehouse University	Baltimore
Delaware State University	North Carolina A&T	University of Maryland
Delaware Technical and	University	Eastern Shore
Community College	Northeastern University	University of Massachusetts
Drexel University	Ohio State University	University of Richmond
Florida A&M University	Pace University	University of Tampa
Goldey-Beacom College	Penn State University	University of the Arts
Hampton University	Pittsburgh Technical Institute	Villanova University
Howard Community College	Rowan University	Virginia State University
Howard University	Saint Joseph's University	Virginia Union University
Iowa Lakes Community	Salisbury University	Virginia Wesleyan College
College	Southern Virginia University	Washington College
Jacksonville University	Spelman College	Wesley College
Johnson and Wales	St. John's University	West Chester University
University	Stevenson University	West Virginia University
Kean University	Swarthmore College	Widener University
LaSalle University	Temple 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 program 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

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
English 09 Honors	English 10 Honors	English 11 Honors OR AP Language OR AP Literature	AP Language OR AP Literature OR ELA121 Dual Enrollment
Algebra I Honors	Geometry Honors	Algebra II Honors	Pre-Calculus Honors OR AP Statistics
Algebra II Honors		Pre-Calculus Honors	AP Statistics OR AP Calculus
Physical Science Honors	Biology Honors	Chemistry Honors OR AP Biology	AP Biology OR AP Chemistry OR Physics Honors
Biology Honors	Chemistry Honors	Physics Honors OR AP Biology OR AP Chemistry	AP Biology OR AP Chemistry OR AP Physics OR BIO120 Dual Enrollment
World History Honors AP Human Geography	AP U.S. 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

**AJROTC** 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 and Painting, Printmaking, Sculpture, AP Studio Art, Art Internship

**Drama/Communication:** Intro to Drama, Basic Theater/Advanced Theater, Speech & Debate, Journalism, Publications, Film Studies, Creative Writing, Video Production

**Dance:** Dance 2, Dance Company

### ACADEMY OF THE ARTS

#### 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 and 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).

## TECHNOLOGY

### Architectural Engineering Technology

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.

#### Pathway Map

Foundations of Technology  
Processes of Architecture and Construction  
Computer Aided Drafting III: *Certiport Certification*  
Technology Education Co-op (optional)

#### Related Careers

- Drafter
- Engineer
- Architect
- Surveyor
- Commercial Designer
- Construction Manager
- Graphic Designer

## SKILLED & TECHNICAL SCIENCE

### Heating, Ventilation, Air Conditioning and Refrigeration Technology/ Sheet Metal (HVACR)

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 HVACR related training apprenticeship after graduation.

#### Pathway Map

HVACR/Sheet Metal Technology II  
HVACR/Sheet Metal Technology III: *EPA Certification*  
HVACR/Sheet Metal Technology Co-op (optional)

#### Related Careers

- Sheet Metal Worker
- Home Appliance Repairer
- Maintenance and Repair Worker
- Telecommunications Line Installer
- Manager of Mechanics, Installers, and Repairers
- Plumbers, Pipe Layers, Pipefitters, and Steamfitters
- Electrician



## AGRICULTURAL POWER AND ENGINEERING

The Agricultural Power and Engineering program is a three (3) course program of study that provides students with the mathematical, scientific, and engineering principles and methods required to understand dynamic power systems and metal fabrication.

Students practice real-world applications, communication skills, and problem-solving skills associated with dynamic power systems and metal fabrication. Students are prepared for a variety of careers including engineering, welding technician, mechanical and industrial technician, maintenance technician, mechanical engineer, metal fabrication, CNC operator, power technology repair and troubleshooting, and green energy technologies.

### Pathway Map

Fundamentals of Agricultural Power and Engineering  
Structural Systems in Agriculture  
Essential Skills in Agricultural Structures and Engineering

### Related Careers

- Carpenter
- Cabinetmakers and Bench Carpenters
- Cement Masons and Concrete Finishers
- \*Construction and Building Inspectors
- Drywall and Ceiling Tile Installers
- Occupational Health and Safety Technicians
- \*Operating Engineers and Other Construction Equipment Operators
- Structural Iron and Steel Workers

# BUSINESS, FINANCE, AND MARKETING

## MARKETING MANAGEMENT

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.

### Pathway Map

Core Class

Marketing Management II

Marketing Management III: *NOTCI Workplace Readiness Certification #3033*

Early Career Exploration in Marketing and Communication (optional)

### Related Careers

- Public Relations Specialist
- Buyer
- Marketing Researcher
- Editor
- Research Analyst
- Marketing Manager
- Advertising Manager

## ACADEMY OF FINANCE

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.

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..

### Pathway Map

Fundamentals of Finance (FOF)

Principles of Accounting (POA)

Financial Services (FS)

### Related Careers

- Personal Financial Advisors
- Financial Analysts
- Credit Analysts
- Accountants and Auditors
- Budget Analysts
- Loan Officers
- Insurance Underwriters

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

# FAMILY AND CONSUMER SCIENCE

## CULINARY ARTS

### (Specialized Technical Experience)

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.

#### Pathway Map

Fundamentals of Culinary Arts and Hospitality

Advanced Food Production and Hospitality  
Management

The Culinary & Hospitality Professional Culinary Arts:

*ProStart Certification and ServSafe Certification*

Early Career Exploration Culinary and Hospitality

#### Related Careers

- Food Service Manager
- Chef
- Head Cook
- Planner
- Food & Beverage Service Worker
- Baker
- Food Artist
- Serving Supervisor
- Butcher/Meat Cutter

## EARLY CHILDHOOD EDUCATION

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.

#### Pathway Map

Human Growth and Development

Early Childhood as a Profession

Early Childhood Education 3: *TEC-E1 (Training for*

*Early Care in Education) Certification, CPR/AED  
Certification*

Early Childhood Education Co-op

#### Related Careers

- Teacher
- Social Worker
- Psychologist
- Athlete
- Physician
- Nurse
- Early Childhood Education  
Specialist
- Pediatrician

**Early Childhood Education Pathway Partners:** Delaware Technical and 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

### Related Careers

- Elementary Teacher
- Secondary Teacher
- Adult Literacy Teacher
- Special Education Teacher
- Classroom Paraprofessional
- Speech Therapist
- School Counselor
- School Administrator

# AGRICULTURAL SCIENCE

## ENVIRONMENTAL SCIENCE

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 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.

### Pathway Map

Natural Resources and Ecology  
Environmental Sciences and Natural Resources 2  
AP Environmental Science  
*Pesticide Applicator License*

### Related Careers

- Environmental Control Officer
- Atmospheric Control Officer
- Environmental Chemist
- Environmental Engineer
- Environmental Protection Officer
- Environmental Scientist
- Occupational Health and Safety Specialist
- Conservation Scientist & Forester
- Material Scientist
- Physicists & Astronomers
- Surveyor
- Agriculture & Food Scientist

## ANIMAL SCIENCE AND MANAGEMENT

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.

### Pathway Map

Foundations of Animal Science I  
Animal Science II  
Animal Science III  
Animal Science VI  
AP Environmental Science (optional)  
Early Career Exploration in Animal Science

### Related Careers

- Veterinarian
- Veterinarian Technician
- Park Ranger
- Animal Producer/Rancher
- USDA Inspector
- Agricultural Manager
- Animal Control Officer

**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 and pass a random drug screening.

## Pathway Map

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

## Related Careers

- Licensed Practical Nurse
- Registered Nurse
- Medical Secretary
- Physical Therapy Aide
- Dentist
- Doctor
- Office Assistant
- Sports Trainer
- Emergency Medical Technician
- X-ray Technician
- Radiologist
- Paramedic
- Phlebotomist
- Medical Assistant
- Lab Technician
- Certified Nursing Assistant

# DIGITAL COMMUNICATION TECHNOLOGY

**Digital Communication Technology Pathway** will allow students the opportunity to explore and understand the creative 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

Foundations of Digital Design  
Communication Technology II  
Communication Technology III: *Microsoft Certification*

## Related Careers

- News Analyst
- Market and Survey Researchers
- Sales Representative
- Product Promoter
- Fashion Designer
- Photographer
- Artist
- Drafter
- Author
- Computer Software Engineer

## MANUFACTURING PATHWAY AND 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' sophomore year. This is a four-course, three-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

The Manufacturing Production Technician program of study is a three (3) year, six (6) 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 and Community College.

#### Pathway Map

Year 1—Principles of Manufacturing  
 Year 2—Electrical Systems and Controls  
 Year 3—Fluid Power  
 Year 4—Electro-Mechanical Systems

#### 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 and Community College Certification*

#### Related Careers

- Electrical Equipment Installer/Repairer
- Industrial Electronic Installer/Repairer/Manager
- Industrial Machinery Mechanic
- Industrial Maintenance Electrician
- Industrial Maintenance Technician/Mechanic
- Calibration Technician
- Maintenance Repairer
- Automated Manufacturing Technician
- Quality or Logistical or Design or Electronics Engineer
- Manufacturing or Mechanical Engineer



## MANUFACTURING LOGISTICS TECHNICIAN

The Manufacturing Logistics Technician program of study is a two (2) year, four (4) semester Career and 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 and 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 Manufacturing Association and by the Delaware Technical and Community College. The administration and supervision of the Craftsmanship Placements will be conducted by the participating local education agency, Delaware Technical and Community College faculty, and the participating manufacturing supervisor(s).

### Pathway Map

Year 1–Principles of Manufacturing

Year 2–Manufacturing Quality, Safety, and Practices

Year 3–Manufacturing Processes and Production

Year 4–Advanced Handling and Logistics

### 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 and Community College Certification*

### Related Careers

- Industrial Truck and Tractor Operator
- Materials Handler
- Materials Associate
- Logistician
- Quality Control Technician
- Traffic Manager
- Logistical Engineer
- Engineering and Related Technologist
- Design Engineer
- 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.

### 0118 System 44

**Intervention** Level 1 1 Credit

**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.

### 0117 Read180/ELA9

**Intervention** Level 1 1 Credit

**Target:** 9<sup>th</sup> grade students with low Lexile score

Read 180/ELA 9 is a comprehensive system of curriculum, instruction, and 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. And students will learn English 9 on alternating days (for course details see below). This combination course is intended to support students who need remediation to stay.

### 0111 English 09

**College Prep** Level 1 1 Credit

**Students will meet every other day, yearlong, to:**

Read short stories, novels, plays, and poems from diverse cultures and countries, including a Shakespearean play;

Write informative, persuasive, and self-expressive essays, creative works, letters; stand-alone and text-based responses; 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.

### 0112 English 09 Honors

**Honors** Level 2 1 Credit

**Recommended:** Above average RI/Lexile Score, B average in English; with teacher recommendation

**Students will:**

Read short stories, novels, plays, and poems from diverse cultures and countries, including classical Shakespearean plays;

Write essays in a variety of forms and purposes, including persuasive, informative, and self-expressive; creative works; 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.

### 0121 English 10

**College Prep** Level 1 1 Credit

**Prerequisite:** English 9

Students will meet every other day, yearlong, to:

Read and analyze selections representing diverse cultures and countries. Readings will be drawn from all genres and types;

Write essays in narrative, descriptive, expository, and persuasive styles; creative work; and essays relating to literature and personal experience using the writing process;

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.

### 0122 English 10 Honors

**Honors** Level 2 1 Credit

**Prerequisite:** English 9

**Recommended:** B average in English and an above average RI/Lexile score

**Students will:**

Read and analyze selections representing diverse cultures and countries. Readings will be drawn from all genres and types, and there will be extensive independent reading.

Write frequent essays that analyze literature or that discuss personal experience; research project; and creative works. 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.

### 0131 English 11

**College Prep** Level 1 1 Credit

**Prerequisite:** English 10

**Students will:**

Read and analyze selections from American literature of all genres and types;

Write paragraphs and essays analyzing literature, discussing major themes in American literature, and analyzing rhetoric; 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.

### 0132 English 11 Honors

**Honors** Level 2 1 Credit

**Prerequisite:** English 10

**Recommended:** B average in English and an above average RI/Lexile score.

**Students will:**

Read and analyze selections from American literature with thematic emphasis;

Write essays each quarter, research reports, and rhetorical analysis using the writing process;

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."

### 0133 AP Language

Advanced Placement Level 3

1 Credit

**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 12th 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;

Move effectively through the stages of the writing process, with careful attention to inquiry and research, drafting, editing, and review; and

Practice oral communication skills.

Students will be required to take the Advanced Placement examination in May and depending on the score, may earn college credit or Advanced Placement. Financial aid is available.

### 0143 AP Literature

Advanced Placement Level 3

1 Credit

**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 examination in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.

### 0141 English 12

College Prep

Level 1

1 Credit

**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.

### 0144 ENG121/English Composition 1

Dual Enrollment

Level 3

1 Credit

**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

### 0151 Competitive Public Speaking

Pass/Fail

Level 0

½ Credit

Also known as Speech and 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**

Seniority is based on years in Speech and Debate and participation in all events and fundraisers.

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.



## SOCIAL STUDIES

### 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 and application/writing sample (open only to 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grades)

Students will work with advanced publication software such as InDesign and 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.

### 0211 World History

College Prep Level 1 1 Credit

This course is a survey of the world's civilizations from the 16<sup>th</sup> 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.

### 0212 World History Honors

Honors Level 2 1 Credit

This course is a survey of the world's civilizations from the 16<sup>th</sup> 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.

### 0233 AP U.S. Government and Politics

Advanced Placement Level 3 1 Credit

**Prerequisite:** 1 credit in Social Studies

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 examination in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.

### 0236 AP Comparative Government and Politics

Advanced Placement Level 3 1 Credit

**Prerequisite:** 1 credit in Social Studies

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 examination in May and depending on the score, may earn college credit or Advanced Placement. Financial aid is available.

### 0231 Political Science

College Prep Level 1 ½ Credit

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.

### 0237 Economics

College Prep Level 1 ½ Credit  
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.

### 0221 United States History

College Prep Level 1 1 Credit

**Prerequisite:** 2 credits in Social Studies  
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.

### 0223 AP United States History

Advanced Placement Level 3 1 Credit

**Prerequisite:** World History/AP Human Geography and Political Science or equivalent  
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.

## SOCIAL STUDIES ELECTIVES

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

### 0243 AP Microeconomics

Advanced Placement Level 3 ½ Credit

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 ETS. 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 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.)

### 0263 AP Macroeconomics

Advanced Placement Level 3 ½ Credit

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 ETS. 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 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.)

### 0251 Psychology

College Prep Level 1 ½ Credit

**Prerequisite:** Junior or senior with 2 credits in Social Studies  
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).

### 0253 AP Psychology

Advanced Placement Level 3 1 Credit

**Prerequisite:** Grades 10-12 with at least 1 prior full Social Studies 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.

### 0261 Sociology

College Prep Level 1 ½ Credit

**Prerequisite:** Junior or senior with 2 credits in Social Studies  
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 in Delaware and nationwide).

**0266 Civil War**  
College Prep Level 1 ½ Credit

**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.

**0267 World War II**  
College Prep Level 1 ½ Credit

**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.

**0271 Constitutional Law**  
College Prep Level 1 ½ Credit

**Prerequisite:** 1 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 1<sup>st</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, and 14<sup>th</sup> Amendments are protections for everyone.

**0281 Civil Law**  
College Prep Level 1 ½ Credit

**Prerequisite:** 1 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.

**0291 Criminal Justice**  
College Prep Level 1 1 Credit

**Prerequisite:** 1 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.

**0273 AP European History**  
Advanced Placement Level 3 1 Credit

**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 15<sup>th</sup> 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 examination in European History administered by ETS. 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 examination in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.

**0272 AP Human Geography**  
Advanced Placement Level 3 1 Credit

This course replaces 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 examination in May and depending on the score may earn college credit or Advanced Placement. Financial aid is available.

**0274 Personal Finance**  
College Prep Level 1 ½ Credit

**Prerequisite:** Junior or senior  
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 every other week (all day) in conformity with United States Air Force standards. Repeated failure (three 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 baseline 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.

## 0216 Aerospace Science 1

College Prep Level 1 1 Credit

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%.

## 0226 Aerospace Science 2

College Prep Level 1 1 Credit

**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.)

## 0256 Aerospace Science 3

College Prep Level 1 1 Credit

**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, too. 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.)

## 0276 Aerospace Science 4

College Prep Level 1 1 Credit

**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 4<sup>th</sup> 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.)

### 0277 Aerospace Science 5

College Prep Level 1 ½ Credit

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 first and second semester only. (Enrollment requires instructor interview and contract.)

## MATHEMATICS

### 0366 Math 180 Course II/Algebra I

College Prep Level 1 2 Credits

Math 180 Course II curriculum transitions students to pre-algebra with an emphasis on building proportional reasoning with rates, ratios, 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.

### 0381 Algebra 1

College Prep Level 1 1 Credit

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.

### 0382 Algebra 1 Honors

Honors Level 2 1 Credit

**Prerequisite:** 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, explore the structure of real numbers, and use algebra to model practical applications. Students entering this class should have a good foundation in basic mathematics (whole numbers, fractions, decimals, and percent).

### 0321 Geometry

College Prep Level 1 1 Credit

**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 3D figures.

### 0322 Geometry Honors

Honors Level 2 1 Credit

**Prerequisite:** Algebra 1 Honors

**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.

### 0361 Algebra 2

College Prep Level 1 1 Credit

**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.

### 0362 Algebra 2 Honors

Honors Level 2 1 Credit

**Prerequisite:** Algebra 1 Honors (or 85% in an approved 8th 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.

### 0371 Algebra 3

College Prep Level 1 1 Credit

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.

### 0359 Advanced Topics in Mathematics

College Prep Level 1 1 Credit

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.

### 0374 Pre-Calculus

College Prep Level 1 1 Credit

**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.

### 0372 Pre-Calculus Honors

Honors Level 2 1 Credit

**Prerequisite:** Geometry Honors and Algebra 2 Honors

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

### 0341 AP Calculus

Advanced Placement Level 3 1 Credit

**Prerequisite:** Pre-Calculus Honors

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, velocity, 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.

### 0393 AP Statistics

Advanced Placement Level 3 1 Credit

**Prerequisite:** Algebra 2 Honors

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.

### 0411 Physical Science

College Prep Level 1 1 Credit

**Prerequisite:** Currently enrolled in Algebra 1

This course is designed to give students 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.

### 0412 Physical Science Honors

Honors Level 2 1 Credit

**Prerequisite:** Currently in Algebra 1 Honors or Algebra 2

Honors

**Recommended:** 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. Physical Science Honors is a rigorous academic course designed for college-bound students.

### 0421 Biology

College Prep Level 1 1 Credit

**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.

## 0422 Biology Honors

Honors Level 2 1 Credit

**Prerequisite:** Physical Science Honors or enrolled in Algebra 2 Honors 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.

## 0453 AP Biology

Advanced Placement Level 3 2 Credits

**Prerequisite:** Biology and Chemistry

**Recommended:** Biology Honors and Chemistry Honors

Biology AP is a laboratory science. This college-level course is designed for students who have been successful in Biology Honors 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.

## 0431 Chemistry

College Prep Level 1 1 Credit

**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.

## 0432 Chemistry Honors

Honors Level 2 1 Credit

**Prerequisite:** Biology

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

Chemistry Honors is a laboratory course. This course is designed to meet or exceed the Delaware State Standards. This course places much emphasis on mathematical problem solving. Topics include observation techniques, communicating scientific information, mole concept, kinetic theory, liquids and solids, atomic theory, trends of the periodic table, nuclear reactions, energy and matter, and chemical bonding.

## 0433 AP Chemistry

Advanced Placement Level 3 2 Credits

**Prerequisite:** Chemistry

**Recommended:** Chemistry Honors

AP Chemistry is a laboratory science course. It is a college-level course designed for students who have been successful in Chemistry Honors 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.

## 0442 Physics Honors

Honors Level 2 1 Credit

**Prerequisite:** Chemistry

**Recommended:** Chemistry Honors and Geometry Honors

Physics Honors 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.

## 0443 AP Physics

Advanced Placement Level 3 2 Credits

**Prerequisite:** Chemistry

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

AP Physics is a laboratory science. This college-level course covers all the 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

### 0451 Forensics

College Prep Level 1 1 Credit

**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

### 0463 Anatomy & Physiology

College Prep

Level 1

1 Credit

**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.

### 0468 Dual Enrollment Anatomy & Physiology

College Credit

Level 3

1 Credit

**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.

### 0512 Spanish 1 Honors

Honors

Level 2

1 Credit

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.

### 0521 Spanish 2

College Prep

Level 1

1 Credit

**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.

## 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.

### 0511 Spanish 1

College Prep

Level 1

1 Credit

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.



**0522 Spanish 2 Honors**  
Honors Level 2 1 Credit

**Prerequisite:** Spanish 1

**Recommended:** 80% or higher in Honors Spanish 1

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 the 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.

**0531 Spanish 3 Honors**  
Honors Level 2 1 Credit

**Prerequisite:** Spanish 2

**Recommended:** 80% or higher in Spanish Honors 2

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, 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.

**0542 Spanish 4 Honors**  
Honors Level 2 1 Credit

**Prerequisite:** Spanish 3

**Recommended:** 80% or higher in Spanish 3

The purpose of this student-centered program is to prepare students for further language study and for lifelong 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.

**0543 AP Spanish**  
Advanced Placement Level 3 1 Credit

**Prerequisite:** Spanish 4

**Recommended:** 80% or higher in Spanish 4

The purpose of this student-centered program is to prepare students for further language study and for lifelong 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.

**0551 French 1**  
College Prep Level 1 1 Credit

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.

**0561 French 2**  
College Prep Level 1 1 Credit

**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.

## 0562 French 3 Honors

Honors

Level 2

1 Credit

**Prerequisite:** French 2

**Recommended:** 80% or higher 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.

## 0563 French 4 Honors

Honors

Level 2

1 Credit

**Prerequisite:** French 3

**Recommended:** 80% or higher in French 3

The purpose of this student-centered program is to prepare students for further language study and for lifelong 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.

## 0564 AP French

Advanced Placement

Level 3

1 Credit

**Prerequisite:** French 3 or French 4

**Recommended:** 80% or higher 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:

Understand spoken French in a variety of contexts; Read newspaper, magazine, and literary texts without dependence on a dictionary; 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 and land, air, water, and energy use and care, as well as a focus 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.

### 0493 AP Environmental Science

Advanced Placement

Level 3

1 Credit

**Prerequisite:** Biology

**Recommended:** Chemistry and Algebra 2

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

### 0476 Foundations of Animal Science

College Prep

Level 1

1 Credit

Foundations of Animal Science 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.

### 0477 Animal Science II

College Prep Level 1 1 Credit

**Prerequisite:** 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.

### 0478 Animal Science III

College Prep Level 1 1 Credit

**Prerequisite:** 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.

### 0479 Animal Science IV/Vet Tech

College Prep Level 1 1 Credit

**Prerequisite:** Animal Science III

Animal Science IV/Vet Tech 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.

### 0497 Early Career Exploration Agri-science

Level 0 1 Credit

Grade 12, Agri-science pathway student with appropriate job placement

**Prerequisite:** 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

### 0661 Fundamental of Finance

College Prep Level 1 1 Credit

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.

### 0662 Principles of Accounting

College Prep Level 1 1 Credit

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.

### 0663 Financial Services

College Prep Level 1 1 Credit

**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.

### 0674 BBM102 Intro to Business

Dual Enrollment Level 3 ½ Credit

**Prerequisite:** Financial Services

This course is designed to provide a broad overview of the functions of the business entity. Business and its environment, organization and management, finance, production, marketing, human resources, and control systems are reviewed. New 2019-2020

### MARKETING

### 0600 CORE Business

College Prep Level 1 1 Credit

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.

### 0671 Marketing Management II

College Prep Level 1 1 Credit

**Prerequisite:** 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.

### 0672 Marketing Management III

College Prep Level 1 1 Credit

**Prerequisite:** 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.

### 0674 BMK305 Intro to Marketing

Dual Enrollment Level 3 ½ Credit

**Prerequisite:** 0671/Marketing Management II

This course is an introduction to marketing, emphasizing the problems of policy determination by management. The nature and operation of marketing functions, consumer preferences, product planning, promotion, distribution, and pricing are studied. Environmental factors affecting marketing processes are also examined. This is a required marketing course for all business majors. New 2019-2020.

### 0783 Advanced Food Production & Hospitality Management

Level 1 1 Credit

**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.

### 0784 The Culinary & Hospitality Professional

Level 1 1 Credit

**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.

## AGRICULTURAL POWER AND ENGINEERING

## CULINARY & HOSPITALITY MANAGEMENT

### 0780 Fundamentals of Culinary Arts & Hospitality

Level 1 1 Credit

This 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 food service industry.

### 0774 Fundamentals of Agricultural Power & Engineering

Level 1 1 Credit

This course introduces students to the skills needed in the occupational area of agricultural power and engineering. It offers hands-on opportunities in workplace safety, communication skills, application of construction math, reading and developing construction plans, tool usage and safety practices, and cutting and gouging processes of metals using oxyfuels and plasma. New beginning 2019-2020 school year.

## HVACR

### 0772 HVACR/Sheet Metal Technician III

Level 1 1 Credit

**Prerequisite:** HVACR 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 advanced hands-on skills and knowledge that prepares them for apprenticeships/job market for this career path.

**0773 HVACR/Sheet Metal Co-op**  
Level 0 1 Credit

**Prerequisite:** Grade 12; HVACR pathway student with appropriate job placement and satisfactory completion of Level 3 HVACR 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.

## EARLY CHILDHOOD TEACHER ACADEMY

**0700 Human Growth and 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.

**0713 Early Childhood as a Profession**  
College Prep Level 1 1 Credit

**Prerequisite:** Human Growth and 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:** Early Childhood Education II  
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 0 ½ Credit

**Prerequisite:** Grade 12 Early Childhood Education pathway student with appropriate job placement and satisfactory completion of Level 3 Early Childhood Education 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, and 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 and 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.

**0715 Foundations of Curriculum and Instruction**  
College Prep Level 1 1 Credit

This course 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.

## 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 and 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.

**0706 Essentials of Anatomy and Physiology (EAP)**  
Level 1 1.5 Credits

**Prerequisite:** Fundamentals of Health Sciences  
EAP introduces students to anatomy and physiology of humans including the structure and function of cells and tissues, and the 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 Future Health Professionals (HOSA).

**0707 Certified Nursing Assistant III**  
Level 2 2 Credits

**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 and Rivet System, and more advanced manual drafting assignments.

**0723 Foundations of Technology**  
College Prep Level 1 1 Credit

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.

**0733 Processes of Architecture and Construction**  
College Prep Level 1 1 Credit

**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 Honors Level 2 1 Credit

**Prerequisite:** Processes of Architecture and Construction  
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 ½ 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.

## DIGITAL COMMUNICATION TECHNOLOGY

### 0834 Foundations of Digital Design College Prep Level 1 1 Credit

This course introduces students to the foundational principles, techniques, and skills of visual communications. Students learn the elements and principles of design, color theory, typography, packaging/promotional design, copyright/fair use, and image manipulation techniques along with the communication skills required to work within the media industry and client-based realm. Students begin to develop the capstone cumulative professional portfolio.

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

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 3 course allows students to demonstrate and apply technical skills learned in Level 2. 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

### 0790 Manufacturing Principles College Prep Level 1 1 Credit

Manufacturing Principles 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:**

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

### 0795 Electrical Systems and Controls College Prep Level 1 ½ Credit

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.

### 0796 Fluid Power College Prep Level 1 ½ Credit

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

### 0791 Manufacturing Quality, Safety & Practices College Prep Level 1 1 Credit

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.

### 0795 Advanced Processes and Production College Prep Level 1 1 Credit

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. (Wrong Description?)

## ACADEMY OF THE ARTS

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

### 0822 Studio In Art College Prep Level 1 1 Credit

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, and the realistic, abstract, functional, non-functional, man-made, and natural artwork experiences. Students will participate in online and in-person discussions, writing, and reading assignments. A passing grade in Studio In Art is a prerequisite for all other visual art courses.

### 0823 Drawing and Painting College Prep Level 1 1 Credit

**Prerequisite:** Studio In Art  
Drawing and 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, and the realistic, abstract, functional, non-functional, man-made, 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 Drawing and Painting is a prerequisite for other intermediate visual art courses and AP Studio Art.

### 0824 Printmaking College Prep Level 1 1 Credit

**Prerequisite:** Studio In Art  
Printmaking takes a deeper look into the world of printing developed in the mid 1960s. 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, mono-printing, 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, and the realistic, abstract, functional, non-functional, man-made, 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.



## 0825 Sculpture

College Prep Level 1 1 Credit

**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, and the realistic, abstract, functional, non-functional, man-made, 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, critiques, writing, and reading assignments interwoven into the creative studio experience. A passing grade in Sculpture is a prerequisite for other intermediate visual art courses and AP Studio Art.

## 0843 AP Studio Art

Advanced Placement Level 3 1 Credit

**Prerequisite:** Studio in Art and 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.

## 0860 Beginning Dance

College Prep Level 1 1 Credit

Students will learn the elements and principles of technique and execution or the primary styles of dance—ballet, jazz, modern, and musical theatre dance. Beginning Dance is an introduction to improvisation and the basic principles of composition and choreography, physiology and kinesiology, and dance history. Class includes scholarship opportunities, lecture demos, community outreach programs, residencies, workshops, and field trips.

## 0861 Dance 2 (Levels 0866, 0867, 0868)

College Prep Level 1 1 Credit

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, and 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 of composition and choreography, physiology and kinesiology, and dance history.

## 0862 Dance Company (Levels 0863, 0864, 0865)

College Prep Level 1 1 Credit

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, and 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 and style, and an exploration of dance timeline and 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).

## 1865 Dance Academy Honors

Honors Level 2 1 Credit

**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.

# 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.

## MUSIC

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

## MUSIC ELECTIVES

### 0805 Strings Orchestra

College Prep Level 1 1 Credit

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.

### 0817 Dover High School Senator Band

College Prep Level 1 ½ Credit

**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.

### 0812 Symphonic Band

College Prep Level 1 ½ Credit

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 four years of playing experience on a woodwind or percussion instrument.

### 0810 Wind Ensemble

College Prep Level 1 ½ Credit

The Wind Ensemble meets after marching season. In order to make this ensemble you must audition and have four years of playing experience on a woodwind or percussion instrument. Students are selected based on meeting benchmarks in performance and skills.

### 0819 Jazz Band

College Prep Level 1 1 Credit

**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 four years of playing experience on a woodwind, percussion, or rhythm instrument. Students are selected based on meeting benchmarks in performance and skills.

### 0894 Drumline

College Prep Level 1 1 Credit

**Prerequisite:** Audition

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

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.

### 0893 Beginning Piano

College Prep Level 1 1 Credit

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.

### 0801 Integrated Art History

College Prep Level 1 1 Credit

A broad-based and focused, historical education in the arts: painting, sculpture, music (vocal and 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> and 20<sup>th</sup> century, and the Modern Age.

### 0873 Music Technology

College Prep Level 1 ½ Credit

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.

### 0800 Music Appreciation/Steel Drums

College Prep Level 1 1 Credit

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 the student's grade will be based on participation in performance outside of class.

**0884 Music Theory**  
College Prep Level 1 1 Credit

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 and written. This class will also explore the rich and vast tonal language of 20<sup>th</sup> century music. It will cover transposition, arranging, and orchestration. Ear training will 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.

**0880 Ear Training and Composition Honors**  
Honors Level 2 1 Credit

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

**0883 AP Music Theory**  
Advanced Placement Level 3 1 Credit

**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 20<sup>th</sup> 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 one ensemble, participation in VPAG for three years, and completion of music pathway to include AP Music Theory.

**0871 Concert Choir**  
College Prep Level 1 1 Credit

**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.

**0872 Select Ensemble**  
College Prep Level 1 1 Credit

**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

**0815 Introduction to Drama**  
College Prep Level 1 ½ Credit

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.

### 0816 Theater Workshop

College Prep Level 1 ½ Credit

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 makeup, 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.

### 0813 Theater 2

College Prep Level 1 1 Credit

This course builds upon the skills learned in Theater Workshop. 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 makeup, costume design, and technical theater. Students will apply knowledge by producing, directing, casting, and performing in a variety of plays/performances and for a variety of audiences.

## PHYSICAL EDUCATION/HEALTH

### 0911 Fitness for Life

Level 1 ½ Credit

**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. One full credit or two sessions of Physical Education are required for graduation.

### 0912 Team Sports

Level 1 ½ Credit

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 will participate in basketball, volleyball, soccer, and floor hockey. Students will 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 ¼ Credit

**Prerequisite:** Fitness for Life must be blocked with Driver's 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 and 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 ½ 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 ½ 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 ½ 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's Education Birthdate before Sept. '02

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

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

0933 Driver's Education Birthdate April–July '03

Level 1 ¼ Credit

**Prerequisite:** Student must be enrolled in the 10<sup>th</sup> grade.

\*Course blocked with 0916–Individual/Dual Sports. Students must be in 10<sup>th</sup> 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's Ed. There is no guarantee that this course will be available to students in the quarter in which their 16<sup>th</sup> 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 birth-date will be accomplished to the best of our administrative ability. Student attendance and grades may impact scheduling of Driver's 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.

### 0925 JDG Level 1 College Prep Level 1 1 Credit

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.

### 0926 JDG Level 2 College Prep Level 1 1 Credit

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.

### 0936 JDG Level 3 College Prep Level 1 1 Credit

The Level 3 JDG course includes: career vocabulary, résumé 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.

### 0946 JDG Level 4 College Prep Level 1 1 Credit

The Level 4 JDG course includes: organization and time management, choosing career attire, cover letters, résumés 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 résumé, references, a sample job application, and commendations. If approved by the school counselor, JDG may be the student's co-op class ONLY if JDG is the student's pathway.

### 0947 JDG Job Co-op College Prep Level 1 ½ Credit

**Prerequisite:** Grade 12 only. Course will be scheduled twice for students earning a full credit. Student employment is required. 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

### 0968 Peer Group Connections (PGC) College Prep Level 1 1 Credit

**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

### 0968 Fire Safety Pass/Fail Level 0 1 Credit

**Prerequisite:** Service as volunteer firefighter/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/her designee. You must be a volunteer firefighter at a local fire company. See counselor for credit requirements.

### 3012 Delaware Volunteer Credit Program

Pass/Fail Level 0 1 Credit

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.

### 0175 VPAG

Pass/Fail Level 0 ½ Credit

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 one hour.

### 6006 College Attend

0 Credit

**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.

## ADDITIONAL COURSES

### 2751 Print Shop

Level 0 ¼ Credit

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.

## DHS RECOMMENDED SCIENCE/MATH PLANNING GUIDE COURSE SEQUENCE

MATH LINK	SCIENCE LEVEL	GRADE 9	GRADE 10	GRADE 11	GRADE 12
Geometry Honors 0322	AP	Level II *1.05 Biology Honors 0422	Level II *1.05 Chemistry Honors 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
Algebra 1 Honors 0382	Honors	Level II 1.05 Physical Science Honors 0412	Level II 1.05 Biology Honors 0422	Level II 1.05 Chemistry Honors 0432	Level II 1.05 Physics Honors 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 & 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





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