

# Danville Area High School

## 2026-27 SY Program of Studies

Classes of '27, '28, '29, & '30



*Forging strong connections that nurture the whole student and empower them to reach their full potential!*

School Board Approved on February 11, 2026

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## Minimum Requirements for Graduation

It is the student's responsibility to know what requirements and credits are needed to graduate. Students must complete a minimum of 24 credits to graduate. One Computer Science course may be used as a Math or Science credit towards graduation with administrative approval. In addition to the local credit requirements, students must also successfully complete one of the five (5) PA Act 158 pathways to graduation.

|                       |             |                                                                                                                                                                                                                                                                                              |
|-----------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>English</b>        | 4.0 credits | 4 Years of English courses (at least 1.0 credit per year)                                                                                                                                                                                                                                    |
| <b>Math</b>           | 4.0 credits | 4 years of Math courses (at least 1.0 credit per year)                                                                                                                                                                                                                                       |
| <b>Science</b>        | 4.0 credits | 4 years of Science courses (at least 1.0 credit per year)                                                                                                                                                                                                                                    |
| <b>Social Studies</b> | 3.0 credits | 3 years of Social Studies courses                                                                                                                                                                                                                                                            |
| <b>P.E. / Health</b>  | 1.5 credits | Health [943] should be taken prior to Junior year.                                                                                                                                                                                                                                           |
| <b>Electives</b>      | 7.5 credits | Students in the Class of 2028 are strongly encouraged to complete Financial Management [503] prior to graduation.<br><br>Students in the Class of 2029 and beyond are required to successfully complete Financial Management [503]. This course is most appropriate for Juniors and Seniors. |

| PA Act 158 Pathways to Graduation   |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Keystone Proficiency Pathway</b> | Students achieving minimum scaled scores of 1500 or better in each of the three Keystone Exams (KE): Algebra, English Literature, & Biology                                                                                                                                                                                               |
| <b>Keystone Composite Pathway</b>   | Students who have taken all three Keystone Exams and one scaled score of Proficient or Advanced, no KE scaled score of Below Basic, AND a composite of the three scaled scores equal to or greater than 4452                                                                                                                              |
| <b>CTE Concentrator Pathway</b>     | In addition to meeting local grade-based requirements for each KE content area in which a student does not have a numeric or non-numeric score of Proficient/Advanced, a student must attain or demonstrate success on an approved Industry-Based Competency Assessment*                                                                  |
| <b>Alternate Assessment Pathway</b> | In addition to meeting local grade-based requirements for each KE content area in which a student has neither a numeric or non-numeric score of Proficient/Advanced, a student must meet or exceed ONE of the following: ACT composite score of 21, ASVAB composite score of 31, PSAT total score of 970, or SAT total score of 1010*     |
| <b>Evidence-Based Pathway</b>       | In addition to meeting local grade-based requirements for each KE content area in which a student has neither a numeric or non-numeric score of Proficient/Advanced, a student must provide three (3) pieces of evidence such as full-time employment, IHE acceptance, NCAA compliance, or completion of a Cooperative Education Program* |

\* Additional requirements and options exist and can be explained in further detail by a school counselor.

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## Participation in Graduation Ceremonies

Completion of academic requirements will allow students to commence. Diplomas will be held and distributed after the Commencement Ceremony. Students must participate in all state-mandated testing to meet graduation requirements. Minimum attendance requirements need to be met to qualify for graduation. Attendance at Graduation practice is required in order to participate in the Commencement Ceremony.

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## Assessment Schedule

Each year, an assessment schedule is developed and implemented for the school year. Prior to the administration of these exams, the school will provide additional information to parents/guardians and students regarding these exams.

State-mandated Keystone Exams will be administered to students enrolled in courses 110, 111, 114, 315B, 315C, 406, and 409 during the 4th marking period. The Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) will be administered to all 10th grade students during the Fall of the school year. Additionally, the Armed Services Vocational Aptitude Battery (ASVAB) will be administered to 11th grade students unless opted out by a parent/guardian. Finally, the National Occupational Competency Testing Institute (NOCTI) exam will be administered to students enrolled in 516, 599A and 909. Students who may benefit from taking any of these exams may be permitted to participate due to graduation requirements, industry certification, etc.

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## Course Load Requirements

All students must schedule their core subjects and electives. All students shall carry a **minimum of 6.0 credits** on their schedule unless extenuating circumstances exist. Exceptions may be made for students enrolled in the Cooperative Education program and Advanced College Experience (ACE) programs.

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## Course Requests & Scheduling Process

During the winter months, the Program of Studies is distributed to 8th through 11th grade students and families. Most years, students are given a two-week period to request courses for the following school year. Each student will meet with a school counselor during the two-week window to discuss course requests and plans for the future. A master schedule is then built to reflect projected staffing and the number of course requests submitted by students. Students should understand that not all course requests may be satisfied. In such cases, the guidance department may conference with students throughout the spring and summer months to complete student schedules based upon student interest and post-graduation plans. Due to the sequential nature and specific hour requirements of DHS's Career and Technical Education (CTE) programs, students enrolled in these programs are granted scheduling priority.

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## Schedule Changes

Students will be held responsible for completing a course once they have committed themselves to it. All students will have an opportunity in the first five (5) school days of each semester to make schedule changes. Announcements will be made regarding the last day for schedule changes. Any schedule changes requested once school begins will be closely monitored. Unless extenuating circumstances exist, schedule changes will not be made after the first five (5) school days in each semester.

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## Academic Grading System

Numerical grades are placed on progress reports and report cards. These grades correspond to the marking system shown below. Permanent record grades are recorded numerically and credit toward graduation is awarded for each subject passed. Pass/Fail may be used in certain situations (i.e. Independent Study).

|          |                    |
|----------|--------------------|
| <b>A</b> | 92 - 100 EXCELLENT |
| <b>B</b> | 83 - 91 GOOD       |
| <b>C</b> | 74 - 82 AVERAGE    |
| <b>D</b> | 65-73 POOR         |
| <b>F</b> | 0 - 64 FAILURE     |

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## Grade Point Average

Classes taken at DHS and courses approved through the Advanced College Experience will be calculated into a student's Grade Point Average (GPA). Class rank for seniors will be calculated at the end of the fourth marking period of their senior year. Only students who complete their junior and senior years at DHS will be considered for valedictorian and salutatorian honors.

In an effort to provide the Commencement speakers with ample time to prepare their speeches, the selection of the Commencement speakers will be based on class rank calculated at the conclusion of the first semester. The Valedictorian and Salutatorian will be recognized at Commencement based upon class rank established at the end of the second semester. No additional speakers will be added to Commencement exercise if class rank does indeed change by the end of the school year.

The scholarship application process begins in late Winter. For the purposes of the scholarship selection process, GPA computed from the most recently completed marking period will be utilized.

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## Course Weighting

To encourage students to challenge themselves, a weighted system is used to rank all courses that students take while at DHS. The more difficult a course is, the higher the ranking. Please reference the chart below for specific weighting rules by graduation class.

| Course Rank | DAHS Course Weighting |
|-------------|-----------------------|
| Rank 3      | 1.00                  |
| Rank 2      | 1.02                  |
| Rank 1      | 1.04                  |

Students are encouraged to know the weighted ranking of their course selection and consider this when choosing courses. Each course's weight is included with each course description.

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## Report Cards & Progress Reports

Report cards will be posted directly to the Sapphire Community Portal at the end of each marking period. Each marking period is nine weeks in length. Parents/Guardians are urged to discuss each report card with their student(s). In addition to the regular report card, progress reports are posted to the Sapphire Community Portal at the midpoint of each quarter.

If questions arise regarding the grades reported on a report card or progress report, the parent/guardian and/or student are encouraged to contact their teachers or school counselor.

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## Honor Roll

A student must earn an overall average of 96% or higher to qualify for the Distinguished Honor Roll and an overall average of 92 - 95% for the Honor Roll. All courses given numerical grades are considered for Honor Roll determination. Students must be passing all scheduled classes in order to qualify for Honor Roll status.

All incomplete grades must be updated within one (1) week of the end of the marking period to be included in the Honor Roll. The weighted average is used for Honor Roll determination.

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## **Accelerated Credit Option**

A student wishing to take a course independent of DHS for acceleration through our high school curriculum must get pre-approval from the high school principal. When a class is offered through an educational entity other than Danville Area School District (i.e. online school, other school districts, etc.), the class must be approved to be considered for accelerated placement within the curriculum. A minimum grade in the course will be required.

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## **Repeating Courses**

The practice of repeating courses at DHS is not encouraged, but may be necessary in some cases. Students who repeat a course they have successfully completed will not receive additional credit if they complete the course again. Students who repeat a course they failed will receive credit when the course is passed. In this case, both courses will appear on the school transcript and be calculated in the ranking.

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## **Independent Studies**

DHS offers students the option of taking a course as an Independent Study. Students may request to take an Independent Study by filling out the appropriate paperwork through the Guidance Office and must have administrative approval. Independent Studies are approved only if the original course found in the Program of Studies cannot be scheduled into a student's schedule. Considerations will also be taken regarding the grade level of the student requesting the Independent Study. Independent Studies courses are Pass/Fail only and do not count towards a student's GPA.

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## **Summer School**

Approved summer school information will be made available in the Guidance Office near the end of the school year. Students who attend and pass the offered summer school courses will receive credit for the course.

Only students who have made a constant and conscientious effort in a course during the school (determined by the teacher, school counselor, and/or the principal), but still fail a course will be permitted to receive credit for that course through participation in an approved summer school program. Students who receive less than a 55% in a year-long course may not qualify for a summer school course.

Summer payment is due at the time of registration. Please contact the high school office or guidance office with any questions regarding payment and registration.

Credit recovery options may be offered for credit-deficient seniors. Seniors who plan to enroll in the credit recovery program must successfully complete two (2) credits of summer coursework prior to their senior year.

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## College Bound Students

Based on 4-year colleges' competitiveness and entrance requirements, it is highly recommended that students complete the following credits during high school:

### **Social Studies**

**4.0 Total Credits**

### **World Languages**

**3.0 - 4.0 Total Credits**

Three to four credits of the same language are highly recommended. A minimum of two credits in the same language plus one credit in another language is recommended. An 8th grade language class may count towards the recommended courses, but not towards graduation credits.

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## Choosing Courses for College Athletics Eligibility

To be eligible to participate in college athletics in the year following high school graduation, students must carefully select high school courses to include the proper number and difficulty of courses in English, Math, Science, Social Studies, and World Languages. Students are encouraged to speak to their school counselor for information on how to qualify for college athletics.

If a student plans to participate in NCAA college athletics, the student should discuss their courses on a yearly basis with their school counselor. English, Math, Science, Social Studies, and World Languages courses that have not been approved by the NCAA will include a designation in the Course Description.

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## College Courses / Dual Enrollment

During their four years at DHS, students may enroll in college classes offered at nearby colleges and universities. Credit for these college courses may count as elective credits toward graduation with administrative approval. A written request to enroll must be sent to the building principal for approval before beginning any college class.

Upon completion of each course, students must have an official college transcript sent to the high school guidance office before credit will be given. These completed classes will be included on the transcript and averaged into a student's GPA. All costs for these classes are the responsibility of the students and their families.

Through our partnerships with Harrisburg University of Science and Technology, Lackawanna College, and Penn College of Technology, DHS students can earn official college transcripts while remaining on our campus. By enrolling in these approved dual enrollment courses, students complete high school graduation requirements and earn transferable college credits simultaneously.

DHS maintains formal articulation agreements with Delaware University and Luzerne County Community College. These agreements provide a streamlined pathway for students to convert their high school achievements into recognized college progress.

When a student successfully completes a designated "articulated" course at DHS, the partner institution formally recognizes the mastery of that subject matter. Upon enrolling at that college or university after graduation, the student receives official college credit for those specific courses—effectively reducing both the time required to earn a degree and the overall cost of tuition.

Information regarding the enrollment process for eligible courses will be shared with students and parents on an annual basis. For additional information regarding dual enrollment courses, please contact the Guidance Office.

| <b>Lackawanna College<br/>Dual Enrollment Courses</b> |                                          |
|-------------------------------------------------------|------------------------------------------|
| <u>DHS Course</u>                                     | <u>Lackawanna College Course</u>         |
| English 11 [120]                                      | College Writing [ENG 105]                |
| English 12 [130]                                      | Introduction to Literature [ENG 110]     |
| Psychology [236]                                      | Intro to Psychology [PSY 105]            |
| Sociology [238]                                       | Intro to Sociology [SSC 105]             |
| Introduction to Calculus Honors [331]                 | College Algebra [MAT 120]                |
| Probability & Statistics [339]                        | Intro to Stats & Data Analysis [MAT 135] |
| Honors Chemistry [421]                                | General Chemistry I / Lab [CHM 120/121]  |

| <b>Penn College NOW<br/>Dual Enrollment Courses</b> |                                                   |
|-----------------------------------------------------|---------------------------------------------------|
| <u>DHS Course</u>                                   | <u>Penn College Course</u>                        |
| Honors Construction Hand & Power Tools<br>[923]     | Construction Hand & Power Tools<br>[BCT 103]      |
| Social Media Marketing [504]                        | Social Media in Business and Society<br>[BIM 120] |

### **Harrisburg University of Science & Technology Dual Enrollment Courses**

| <u>DHS Course</u>                                                  | <u>Harrisburg University Course</u>                    |
|--------------------------------------------------------------------|--------------------------------------------------------|
| Accounting I [501]                                                 | Accounting [MEBA 225]                                  |
| Marketing [505]                                                    | Marketing [MEBA 230]                                   |
| Entrepreneurship [551]                                             | Intro to Business and Entrepreneurship [MEBA 110]      |
| Intro to Geographic Information System (GIS) / Drone Science [905] | Remote Pilot Certification and Applications [GSTC 107] |

### **Luzerne County Community College Articulated Credit Courses**

| <u>DHS Course</u>                    | <u>LCCC Course</u>                  |
|--------------------------------------|-------------------------------------|
| International Relations Honors [242] | International Relations [POS 213]   |
| Criminal Justice [243]               | Intro to Criminal Justice [CJU 130] |
| Honors Spanish IV [623]              | Elementary Spanish [SPA 101]        |

### **Delaware Valley University Articulated Credit Courses**

| <u>DHS Course</u>               | <u>Delaware Valley University Course</u>        |
|---------------------------------|-------------------------------------------------|
| Honors Veterinary Science [912] | CASE: Principles of Agricultural Science-Animal |
| Botany Honors [918A]            | CASE: Principles of Agricultural Science-Plant  |

## Advanced College Experience Program (ACE)

### What's offered through the ACE program?

- ★ Courses on the Commonwealth University - Bloomsburg campus during the academic year for advanced students with school district approval. Various online courses are now available, as well.
- ★ Students may take up to 12 credits per Fall and Spring semester. During the Summer and Winter sessions, students may take up to 6 credits in each session.
- ★ College-level courses during the academic year at a high school in areas where the district does not have AP courses available.

### Why join the ACE Program?

- ★ Students are provided the opportunity to earn credits that may apply toward a bachelor's degree as well as have the potential to be used as dual enrollment credits for high school graduation requirements. Grades earned through the ACE program will be converted to a percentage score (see table on next page), entered on student transcripts, and weighted with a 1.03 multiplier.
- ★ Students can explore potential college majors.
- ★ Students enter into a superior academic environment.
- ★ Students develop a resume-building activity that may make college applications more competitive.
- ★ Students can expand their education in areas where their high school does not have advanced placement classes.
- ★ The purchasing of ACE courses is the responsibility of the student and/or family. Students reduce the total cost of a college education by taking university courses at a reduced tuition rate.
  - *75 percent off the residential tuition and fee rates for classes offered at the BU campus on a space-available basis. All regularly charged fees will apply.*
  - *50 percent off the residential tuition and fee rates for courses offered at a school district site. Only off-campus fees apply.*

| <b>Grade Conversion Chart</b><br>Commonwealth University to Danville HS |                                                            |                                                   |
|-------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|
| <b>Commonwealth University Grade</b>                                    | <b>DHS Percentage Grade<br/>(As Entered on Transcript)</b> | <b>DHS Percentage Grade<br/>(Weighted @ 1.03)</b> |
| <b>A</b>                                                                | <b>100</b>                                                 | <b>103</b>                                        |
| <b>A-</b>                                                               | <b>94</b>                                                  | <b>97</b>                                         |
| <b>B+</b>                                                               | <b>91</b>                                                  | <b>94</b>                                         |
| <b>B</b>                                                                | <b>88</b>                                                  | <b>91</b>                                         |
| <b>B-</b>                                                               | <b>85</b>                                                  | <b>88</b>                                         |
| <b>C+</b>                                                               | <b>82</b>                                                  | <b>84</b>                                         |
| <b>C</b>                                                                | <b>79</b>                                                  | <b>81</b>                                         |
| <b>C-</b>                                                               | <b>76</b>                                                  | <b>78</b>                                         |
| <b>D+</b>                                                               | <b>73</b>                                                  | <b>75</b>                                         |
| <b>D</b>                                                                | <b>70</b>                                                  | <b>72</b>                                         |
| <b>F</b>                                                                | <b>64</b>                                                  | <b>66</b>                                         |

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## Honors Program & Course Offerings

The Honors Program includes many opportunities for students to distinguish themselves academically. DHS offers honors courses, advanced placement courses, and cooperative education opportunities.

Honors courses are more rigorous and demanding than standard course offerings. Students are expected to achieve at a challenging level both independently and in group settings. Students must be academically responsible and have demonstrated academic success. Honors courses of study have content differentiated from standard courses of study. Increased critical-thinking and group problem-solving, along with traditional instructional strategies are emphasized.

Students who request an Honors course, but do not meet the stated prerequisite(s) may appeal to the High School Principal for entry into an Honors course. The High School Principal will examine other student data including, but not limited to past class performance, past standardized test performance, PVAAS data, Firefly data, CDT data, and attendance history. The High School Principal will make the final determination about all student placements. The following courses are assigned Honors Rank:

|      |                                    |      |                                     |
|------|------------------------------------|------|-------------------------------------|
| 114  | English 9 Honors                   | 423  | Organic Chemistry Honors            |
| 111  | English 10 Honors                  | 428  | Entomology Honors                   |
| 141  | Intro to Creative Writing Honors   | 142  | Introduction to Film Studies Honors |
| 171  | Public Speaking Honors             | 172  | Journalism Honors                   |
| 242  | International Relations Honors     | 431  | Honors Physics                      |
| 316  | Keystone Algebra II Honors         | 622H | Honors Spanish III                  |
| 318  | Keystone Geometry Honors           | 623  | Honors Spanish IV                   |
| 331  | Introduction to Calculus Honors    | 912  | Honors Veterinary Science           |
| 409  | Honors Keystone Biology            | 918A | Botany Honors                       |
| 421  | Honors Chemistry                   | 923  | Construction Hand & Power Tools     |
| 1000 | Fundamentals of Engineering Honors |      |                                     |

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## AP Capstone Program

DHS launched the AP Capstone Program during the 2024-25 SY. The AP Capstone is a diploma program based upon the AP Seminar course and the AP Research course. These two courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting. AP Seminar was added to the DHS Program of Studies for the 24-25 SY and AP Research was added in the 25-26 SY.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP exams of their choosing receive the AP Capstone Diploma™. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP exams receive the AP Seminar and Research Certificate™.

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## Advanced Placement Program & Course Offerings

DHS offers twenty-two (22) Advanced Placement (AP) courses to students. These are college-level courses established by the College Board and used nationwide. These courses are very demanding and require a great amount of independent study on the part of the student. Advanced Placement examinations in each area are available in the spring of each year. A student who performs well on these examinations may receive credit or be accelerated at a college. Each college or university establishes its own criteria for acceptance of AP scores. Students should investigate the schools of their choice for specific information concerning acceptable scores on AP courses and examinations.

Students who request an AP course, but do not meet the stated prerequisite(s) may appeal to the High School Principal for entry into an AP course. The High School Principal will examine other student data including, but not limited to past class performance, past standardized test performance, PVAAS data, CDT data, and attendance history. The High School Principal will make the final determination about all student placements.

Criteria for enrolling in an AP course:

- Students must meet the course prerequisites.
- Students should be conscientious, diligent workers who are strongly considering enrollment in a college or university.
- Students must take the AP exam in the spring of that year.

The following courses are assigned Advanced Placement Rank:

|      |                                 |      |                                |
|------|---------------------------------|------|--------------------------------|
| 112  | AP Seminar                      | 113  | AP Research                    |
| 123  | AP Language & Composition       | 132  | AP Literature & Composition    |
| 220  | AP U.S. History                 | 234  | AP Economics (Micro & Macro)   |
| 235  | AP US Government & Politics     | 329  | AP Precalculus                 |
| 332  | AP Calculus AB                  | 333  | AP Statistics                  |
| 334  | AP Calculus BC                  | 412  | AP Biology                     |
| 422  | AP Chemistry                    | 433  | AP Physics C                   |
| 585  | AP Computer Science             | 609  | AP French Language and Culture |
| 624  | AP Spanish Language and Culture | 725A | AP Studio Art 2-D              |
| 725B | AP Studio Art 3-D               | 7111 | AP Drawing                     |
| 925  | AP Environmental Science        |      |                                |

## Career and Technical Programs

Students throughout the region can enroll in DHS's Career and Technical Programs. Due to the sequential nature and specific hour requirements of DHS's Career and Technical Education (CTE) programs, students enrolled in these programs are granted scheduling priority. The following programs are offered in the following areas:

| <b>Agriculture, Animal, Plant, Veterinary Science, and Related Sciences</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 01.9999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Four Year Program |
| <p>Agriculture and Related Sciences is an instructional program that focuses on the general principles and practices of agricultural research and production and may prepare individuals to apply this knowledge to the solution of practical agricultural problems. This program includes instruction in basic animal, plant, and soil science; animal husbandry and plant cultivation; soil conservation; and agricultural operations such as farming, ranching, and agricultural business.</p>                                                                                                           |                   |
| <p><b>Courses included in Program:</b><br/>Introduction to Agricultural and Natural Resources, Forestry and Natural Resource Management, Welding I, Welding II, Botany Honors, Small Gas Engines I, Small Gas Engines II, Senior Agricultural Science, AP Environmental Science, SAE (Supervised Agricultural Experience), Ag Exploration in the Real World, Introduction to Geographic Information System/Drone Science, Independent Study: Preparing for the FFA Remote Pilot Certificate Exam, Animal Science / Nutrition &amp; Welfare, Wildlife Habitats and Management, Honors Veterinary Science</p> |                   |

| <b>Agricultural Mechanization</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 01.0201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Four Year Program |
| <p>Agricultural Mechanization is a program that generally prepares individuals to sell, select and service agriculture or agribusiness technical equipment and facilities including computers, specialized software, power units, machinery, equipment, structures and utilities. This program includes instruction in agriculture power systems, planning and selecting materials for the construction of support facilities, mechanical practices associated with irrigation and water conservation, erosion control and agricultural data processing systems.</p> |                   |
| <p><b>Courses included in Program:</b><br/>Introduction to Agricultural and Natural Resources, Small Gas Engines I, Welding I, Small Gas Engines II, Greenhouse Operation &amp; Management, Welding II, Botany Honors, Honors Construction Hand &amp; Power Tools, Introduction to Geographic Information System/Drone Science, Independent Study: Preparing for the FFA Remote Pilot Certificate Exam, SAE (Supervised Agricultural Experience), Ag Exploration in the Real World, Basic Wiring &amp; Plumbing, &amp; Senior Agricultural Science</p>               |                   |

| <b>Job-Seeking / Changing Skills (Diversified Occupations)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>32.0105</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>12th Graders Only</b> |
| <p>Diversified Occupations is an instructional program that operates as an integral part of career and technical education to provide a cooperative arrangement between the school and employers whereby the student receives general education instruction in the school and on-the-job training through part- time employment in business/industry. The area of training may be in any career and technical education area where there are needs for trained persons and must relate to the student's career objective. The program was designed to provide training for those career and technical areas not presently being offered at the career and technical school or comprehensive high school and to serve students who are unable to gain admission to a career and technical program due to excessive applications.</p> |                          |
| <p><b>Courses included in Program:</b><br/>Diversified Occupations &amp; Cooperative Education</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |

| <b>Entrepreneurship</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>52.0701</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Four Year Program</b> |
| <p>This program generally prepares individuals to perform development, marketing and management functions associated with owning and operating a business.</p>                                                                                                                                                                                                                                                                              |                          |
| <p><b>Courses included in Program:</b><br/>Entrepreneurship, Financial Management, Entrepreneurial Occupation Experience, Marketing, Sports and Entertainment Marketing, Business and Personal Law, Introduction to Business, Accounting I, Accounting II, Small Business Social Media Marketing and Advertising, Cooperative Education, Diversified Occupations, Introduction to Game Design, &amp; Introduction to Python Programming</p> |                          |

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## Cooperative Education Program

Cooperative Education incorporates community businesses, schools, and local industries into the student-learner's education. Electing to participate in this program provides students with a better understanding of the world of work. Work experience enables students to evaluate career decisions and develop a better understanding of employment opportunities and responsibilities. In addition, students develop realistic work skills and social skills. Cooperative Education encompasses five primary goals:

1. Allow the student-learner to explore, through employment, internship, or community service his/her career option and verify his/her career choice.
2. Enable the student-learner to develop skills and knowledge applicable to an identified career field.
3. Enhance the student-learner's educational experience with real-world experience.
4. Increase the student-learner's maturity level by exposure to the professional work environment.
5. Establish credentials for the student-learner to enhance his/her opportunities after graduation for employment or admission to college.

Students who enroll and are accepted into the Cooperative Education Program must be enrolled in a year-long Diversified Occupations class.

See [page 65](#) for a complete Course description for Cooperative Education [951].

# English Courses

All DHS students must complete at least 1.0 credit of English per year.

## English 9 [115]

Grade 9

YEAR (1.0 Credit) Rank 3

Students taking English 9 should expect a workload that includes short-term and long-term deadlines, as well as cumulative study of concepts that will be evaluated in a final exam. It is a genre course that focuses upon the study of various forms of literature including short stories, novels, non-fiction, poetry, and drama. Students will be expected to analyze literature and to present their analysis through expository writing. Students will learn through an emphasis upon creative projects, vocabulary, grammar, writing, public speaking, and research skills.

## English 9 Honors [114]

Grade 9

YEAR (1.0 Credit) Rank 2

English 9 Honors is offered to 9th grade students who wish to challenge themselves with the English Honors curriculum at DHS, as well as prepare for English 10 Honors offered in the sophomore year. Students taking English 9 Honors should expect a workload that includes short-term and long-term deadlines, independent reading and writing assignments, as well as cumulative study of concepts that will be evaluated in a final exam. It is a genre course that focuses upon the study of various forms of literature including short stories, novels, non-fiction, poetry, and drama. Students will be expected to analyze literature and to present their analysis through expository writing. Students will also write narrative and persuasive pieces. In addition, students will learn through an emphasis upon creative projects, SAT vocabulary, grammar, writing, public speaking, and research skills.

Required summer reading assignments will be available for this course in June. Students enrolled in English 9 Honors will take the Keystone Literature Exam during the 4th marking period.

**Prerequisites:** Students must have a 92% or higher in Language Arts 8 by the end of the 3rd Marking Period during the 8th grade year. Classroom Diagnostic Tools (CDTs), Firefly assessments, PA Value-Added Assessment System (PVAAS) projections, and PA System of School Assessment (PSSA) scores may also be considered in determining placement.

## English 10 [110]

Grade 10

YEAR (1.0 Credit) Rank 3

English 10 is designed to continue the student's academic preparation in literature, composition, and grammar. In this course, students will review the process of writing the research paper, and they will continue to write and refine the literary essay and other composition forms. Students will practice reading, writing, grammar, and vocabulary skills needed for the Keystone Literature Exam, the PSAT, and the SAT. Students enrolled in English 10 will take the Keystone Literature Exam during the 4th marking period.

## English 10 Honors [111]

Grade 10

YEAR (1.0 Credit) Rank 2

English 10 Honors is offered to sophomores who wish to challenge themselves with the English Honors curriculum as well as prepare for English 11 Honors or AP Language and Composition offered in the junior year. Academic writing with a thesis is emphasized. Concentrating on the literary essay and the essay examination not only reinforces the five-step writing process and the MLA research style, but also organizational skills. Students will practice reading, writing, grammar, and vocabulary skills needed for the Keystone Literature Exam, the PSAT, and the SAT. Additional enrichment readings selected by the teacher are required for the course.

Required summer reading assignments will be available for this course in June. Students in English 10 Honors who have not yet taken the Keystone Literature Exam, will take the exam during the 4th marking period.

**Prerequisites:** Students must have a 92% or higher in English 9 or an 83% or higher in English 9 Honors. Student data such as CDTs, Firefly assessments, PVAAS projections, and PSSA scores may also be considered in determining placement.

## AP Seminar [112]

Grades 10 & 11

YEAR (1.0 Credit) Rank 1

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate their ideas. AP Seminar [112] and AP Research [113] are the two foundational courses of the AP Capstone diploma program from College Board. This innovative program equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges.

Additional enrichment readings selected by the teacher are required for the course. A required summer reading list will be available for this course in June. Tenth grade students enrolled in AP Seminar who have not yet taken the Keystone Literature Exam, will take the exam during the 4th marking period.

**Prerequisites:** Students must have a 92% or higher in English 9 or an 83% or higher in English 9 Honors. Student data such as CDTs, Firefly assessments, PVAAS projections and PSSA scores may also be considered in determining placement.

### **AP Research [113]**

**Grades 11 & 12**

**YEAR (1.0 Credit) Rank 1**

In order for students to have the skills necessary to be successful in AP Research, students must have completed AP Seminar [112] and all its required assessment components. In AP Research, students cultivate the skills and discipline necessary to conduct independent research and inquiry in order to produce and defend their scholarly work. AP Seminar [112] and AP Research [113] are the two foundational courses of the AP Capstone diploma program from College Board. This innovative program equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges.

Additional enrichment readings selected by the teacher are required for the course. A required summer reading list will be available for this course in June.

**Prerequisites:** Successful completion of AP Seminar (112)

### **English 11 [120]**

**Grade 11**

**YEAR (1.0 Credit) Rank 3**

English 11 is designed to continue the student's academic preparation in literature, composition, and grammar as well as hone communication skills. Students will focus on persuasive rhetoric and communication for the majority of the year, reading and analyzing speeches, poetry, documents, short stories, plays and novels from the textbook which arranges chronologically selections from American Literature. Students will analyze and interpret what they read with the goal of becoming more critical, independent, and analytical thinkers. Additionally, students will practice grammar and vocabulary skills necessary for test preparation.

### **Introduction to Creative Writing Honors [141]**

**Grades 11 & 12**

**SEMESTER (0.5 Credit) Rank 2**

Students will explore poetry and prose (fiction and creative non-fiction) to learn the fundamental practices of creative writing and engage their imaginations to produce original work. Instruction will focus on a study of literary techniques, voice, style, storytelling, and purpose as students practice close reading and analysis of published and peer work from various genres and types of writing. Students will read, analyze, write, peer workshop, and revise to gain a deep understanding of plot, setting, character development, imagery, and tone. Students will also identify, understand, and practice a wide range of writing craft techniques and conventions. By the end of the semester-long class, students will have created their own writing portfolio which they will defend during an oral interview which will serve as their final exam.

**Prerequisites:** Students must have earned proficient or advanced on the Keystone Literature Exam.

## **AP Language and Composition [123]**

Grade 11 or 12

YEAR (1.0 Credit) Rank 1

The Advanced Placement English language and composition course prepares students to read, analyze, and write with the same level of skill and sophistication as a first year college student. The textual focus is on nonfiction work but will also include some prose and poetry as well as one fictional text. Students will be prepared to read with understanding and appreciation, to think critically, and to write effectively and often; synthesis, analytical, and argumentative essays will be the focus as these are the required essays in freshman English at the university level. The first half of the textbook focuses on rhetorical skills (rhetoric, close reading, analysis, and synthesizing), which introduce strategies and scaffolding that guide students through deep reading of challenging text. The second half of the textbook is arranged thematically with essential questions which encourage students to explore the complexities of a single issue from multiple perspectives. Each unit includes a central and classic essay - the foundational texts - that spark discussion and foster critical thinking. Other voices and perspectives follow the foundational material and ask students to analyze rhetoric as well as practice of the required AP key language skills needed for the national exam. At the conclusion of this course, students must take the AP English language and composition exam in May. This exam and its standards are equivalent to those used to measure college students who have completed an introductory college-level composition course; all enrolled students must take the exam.

Required summer reading assignments will be available for this course in June.

**Prerequisites:** Students must have one or more of the following: earned a 92% or better in English 10, English 11 Honors, or AP Seminar. Student data such as CDTs, Firefly assessments, PVAAS projections, and Keystone scores may also be considered in determining placement.

## **English 12 [130]**

Grade 12

YEAR (1.0 Credit) Rank 3

English 12 is designed to continue the student's academic preparation in literature, composition, and grammar. Students will continue to refine the process of writing the persuasive essay and learn revision of essays for coherence, conciseness, and variety. Students will better understand the literary and cultural heritage of Western Civilization. The literature studied covers all genres and includes a wide variety of authors and works. Students will learn to analyze and interpret what they read, with the goal of becoming more critical, independent, and analytical thinkers.

## Introduction to Film Studies Honors [142]

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 2

Students will explore film as a visual, auditory, and narrative art form to understand how movies construct meaning and influence audiences. Instruction will focus on the fundamental elements of film language as students practice close viewing, critical analysis, and interpretation of films from a variety of genres, styles, cultures, and historical periods. In class, students will view, analyze, discuss, and write about film to develop a deeper understanding of how directors and filmmakers use formal choices to communicate themes, shape character, and evoke emotional and intellectual responses. Emphasis will be placed on interpreting film as text, recognizing authorial intent, and evaluating how cinematic techniques contribute to storytelling and cultural commentary. Students will also identify, understand, and apply key film terminology and analytical frameworks through written analysis, collaborative discussion, and creative response projects. In the second half of the course, students will synthesize their analytical knowledge by planning, creating, and refining an original film project. By the end of the semester-long course, students will produce a completed film demonstrating their ability to apply cinematic techniques purposefully and express both emotional impact and intellectual meaning. *This course is not NCAA-approved.*

**Prerequisites:** Students must have earned proficient or advanced on the Keystone Literature Exam.

## AP Literature and Composition [132]

Grade 12

YEAR (1.0 Credit) Rank 1

Advanced Placement English Literature is a college level course, which may be taken during the senior year. The rigorous nature of the course requires additional time for reading, composing, and discussing the varied assignments that are part of this course. The literature studied covers all genres and includes a wide variety of authors and works. The reading and writing required for this course is extensive. Upon completion of the course, students must take the AP English Literature exam. Students who receive a satisfactory grade on the AP exam may receive full credit for a required English course.

A required summer reading list will be available for this course in June.

**Prerequisites:** Students must earn a 92% in AP English Composition & Language or AP Research. Student data such as Keystone scores may also be considered for determining placement.

## Yearbook [170]

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 3

Yearbook is an ELECTIVE course designed specifically to produce the high school yearbook, Le Trésor. Students in this course will write copy and captions, take pictures, design layouts, and sell advertisements to finance the publication. Students will also become familiar with Photoshop and Jostens' Yearbook Avenue online publishing program. The class is an excellent experience for any students interested in graphic arts or journalism as a career. In

addition to class time, yearbook students must be willing to devote extra hours outside of the school day to the publication of this book in order to meet deadlines.

Seniors are not permitted in the class unless previously enrolled or granted approval from the adviser. Enrollment requires teacher recommendation. To accommodate student schedules, students may take the course as an independent study course. *This course is not NCAA-approved.*

### **Public Speaking Honors [171]**

**Grades 11 &12**

**SEMESTER (0.5 Credit) Rank 2**

Public Speaking is designed to provide students with the knowledge and skills to be more effective and confident public speakers in both formal (e.g. academic and occupational) and informal settings. Students will be introduced to a wide variety of applications of the spoken word including: impromptu, informative, persuasive, and entertaining speaking. Students will learn how to analyze the effectiveness of various forms of speaking as critical audience members, and then apply that knowledge to write and present their own speeches to diverse audiences. The speech writing process will involve research, evaluation of sources and arguments, outlining, drafting, revising/editing, and the final presentation.

In addition to creating speeches, students will learn how to incorporate effective visual aids to match their spoken words and enhance the impact of their speech. The course will also help students develop the “soft skills” of communication that are necessary in professional settings such as interviews and the workplace. This course counts as half an English credit, but it **MUST** be scheduled in conjunction with another English course to fulfill the necessary 4.0 years of English courses.

**Prerequisites:** Students must have earned proficient or advanced on the Keystone Literature Exam.

### **Journalism Honors [172]**

**Grades 11 &12**

**SEMESTER (0.5 Credit) Rank 2**

Journalism is a course that introduces students to the world of print as well as online and broadcast media. Law, ethics, and the history of journalism complement the major units of study: media literacy, interviewing, writing, editing, photography, and design. The course will cover journalism ethics, key legal decisions that impact student journalism, analysis of media content students consume, and the fundamental elements of news: writing, page layout, and photography. Students will apply concepts learned in class to content published on DAHS social media or broadcast on DTV. This course is an ideal introduction for publications courses.

**Prerequisites:** Students must have earned proficient or advanced on the Keystone Literature Exam.

# Social Studies Courses

## **US History [206]**

Grade 9

YEAR (1.0 Credit) Rank 3

This course is a study of the history of the United States from Industrialism through the present day completing the study of US History begun in 8th grade. Students will become familiar with resources available at the high school, work cooperatively, and are encouraged to participate in class discussions and think critically about relevant historical topics and how they relate to today. This course is a requirement for all 9th grade students. *This course is a requirement for all DHS students.*

## **Economics [231]**

Grade 10

SEMESTER (0.5 Credit) Rank 3

Economics is a one-semester course with a final at the end of study. The course focuses on three main areas of economics including basic economic principles, supply and demand, and macroeconomic measures and policy. It is highly suggested to complete this course during the 10th grade year. *This course is a requirement for all DHS students.*

## **American Government [232]**

Grade 10

SEMESTER (0.5 Credit) Rank 3

American Government is a one-semester course with a final at the end of study. The course focuses on the study of the Constitution including the system of federalism, government institutions, and the roles of political parties, political participation, and the electoral process. A state mandated Civics Knowledge Test will be administered at the end of the course. It is highly suggested to complete this course during the 10th grade year. *This course or AP US Government [235] is a requirement for all DHS students.*

## AP US History [220]

Grades 11 & 12

YEAR (1.0 Credit) Rank 1

AP US History is a college-level course with the objective of increasing the student's understanding of United States history from discovery to the present. Students who enroll in the course must complete a summer introductory assignment and be prepared for a rigorous college-level workload. Enrollment in the course includes the expectation of taking the AP US History exam in May. Areas of concentration include historical, political, and economic history, along with concentrated study of cultural and intellectual institutions and their development. Emphasis is placed on critical and evaluative-thinking skills, essay writing, interpretation of original documents, and historiography.

**Prerequisites:** Successful completion of US History and American Government/AP US Government & Politics or teacher recommendation. Student data such as Keystone scores, CDTs, Firefly assessments, and PVAAS may also be utilized for placement.

## AP Economics [234]

Grades 11 & 12

YEAR (1.0 Credit) Rank 1

Advanced Placement Economics focuses on the study of microeconomics and macroeconomics. Enrollment in the course includes the expectation of taking at least one of the AP Economics exams in May. Students who enroll in the course must complete a summer introductory assignment and be prepared for a rigorous college-level workload.

**Prerequisites:** Successful completion of Keystone Algebra II and Economics or teacher recommendation. Student data such as CDTs, Firefly assessments, PVAAS projections, and Keystone scores may also be utilized for placement.

## AP US Government & Politics [235]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 1

Advanced Placement US Government & Politics focuses on the Constitution, government bodies, and the political system of the American Government. Enrollment in the course includes the expectation of taking the AP US Government & Politics exam in May. A state-mandated Civics Knowledge Test will be administered at the end of the course. It is highly suggested to complete this course during the 10th grade year. Students who enroll in the course must complete a summer introductory assignment and be prepared for a rigorous college-level workload. *This course or American Government [232] is a requirement for all DHS students.*

**Prerequisites:** Successful completion of US History or teacher recommendation. Student data such as CDTs, Firefly assessments, PVAAS projections, and Keystone scores may also be utilized for placement.

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**DHS Students will have the opportunity to select from one of three “World Studies” options during the junior and/or senior years. The selection of one of these options will be required for all DHS students. Any of the following three options will fulfill this requirement and may also be chosen as further elective studies:**

World Cultures [240] / World Religions [241] / International Relations Honors [242]

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### **World Cultures [240]**

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 3

World Cultures studies how geography and history impact elements of culture (e.g. languages, food & cuisine, customs & traditions, etc.) around the world. The course will explore major regions of the world (Asia, Middle East, Africa, Europe, Latin America) in an effort to expose students to different cultures and ways of life.

### **World Religions [241]**

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 3

World Religions will focus on the study of the philosophical origins of monotheistic, polytheistic and nontheistic beliefs and an exploration of the history, theology, beliefs and practices of the five major world religions (Hinduism, Buddhism, Judaism, Christianity, and Islam).

### **International Relations Honors [242]**

Grades 11, 12

SEMESTER (0.5 Credit) Rank 2

International Relations will focus on the study of complex relationships between countries, their leaders, and citizens. The course will begin with exploring the fundamentals of international relations and then look at the applications in the context of historical and current issues (e.g. war/conflict, alliances, etc.).

### **Psychology [236]**

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 3

From the beginning of civilization, human beings have sought to "know themselves." Psychology, the science of mental processes and behavior, is an attempt to do just that. Psychology is an elective course presented on an introductory level suitable for all students. Through this course students will study such topics as sensation-perception, motivation, memory, learning, thinking, intelligence, personality, and abnormal psychology and will be provided with a general understanding of basic mental processes.

### **Sociology [238]**

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 3

Sociology is the systematic and scientific study of human social life. Sociologists investigate people as they form groups and interactions with one another. The groups they study may be small, such as married couples, or large, such as a subculture of suburban teenagers. Sociology places special emphasis on studying societies, both as individual entities and as elements of a global perspective. Sociology is an elective course presented on an introductory level suitable for all students. The course serves as an introduction to the field of sociology and will provide students with a general understanding of basic societal characteristics.

### **Criminal Justice [243]**

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 3

Introduction to the Criminal Justice System is a survey course on the study of formal institutions of social control, "the Criminal Justice System", and will closely examine the three major components of the criminal justice process: the police, the courts, and the various forms of corrections and rehabilitation along with the history and role of each component. Additionally, the course will address crime in America as well as special modern criminal justice issues.

# Math Courses

All DHS students must complete at least 1.0 credit of Math per year. Students should also possess a scientific calculator.

## Keystone Algebra IA [315A]

YEAR (1.0 Credit) Rank 3

Grade 9

This course replaces the Algebra course and is the first of two, full-year courses designed to cover the eligible content for the Keystone Algebra I Exam at a gradual pace. The course focuses on operations with real numbers, solving single-variable equations and inequalities, properties of exponents, operations with polynomial expressions, factoring polynomial expressions, rates of change, and graphing linear equations.

**Prerequisites:** Recommendation of an 8th grade teacher. If an 8th grade student scores Below Basic or Basic on Grade 8 PSSA Math, the student will be considered for enrollment in Keystone Algebra IA. Teacher recommendation and student data such as CDTs, Firefly assessments, and PVAAS projections will also be utilized for placement.

## Keystone Algebra IB [315B]

YEAR (1.0 Credit) Rank 3

Grade 10

This course is designed primarily for 10th grade students and is the second of two, full-year courses designed to cover the eligible content for the Keystone Algebra I Exam at a gradual pace. The course focuses on a thorough review of all concepts covered in Keystone Algebra IA, equations of lines of best fit, solving systems of linear equations, solving systems of linear inequalities, function notation, the domain and range of functions, and data analysis with statistics and probability. Students enrolled in this course will take the Keystone Algebra Exam during the 4th marking period.

**Prerequisites:** Completion of Keystone Algebra IA.

## Keystone Algebra I Accelerated [315C]

YEAR (1.0 Credit) Rank 3

Grade 9

This course is designed to instruct 9th grade students on the eligible content of the Keystone Algebra I Exam. "Accelerated" is used to describe this course title in order to help students understand that this course condenses two years of Algebra content into one year. This course will allow students to enroll in advanced math classes at the high school level. The course focuses on operations with real numbers, solving single-variable equations and inequalities, properties of exponents, operations with polynomial expressions, factoring polynomial expressions, rates of change, graphing linear equations, equations of lines of best fit, solving systems of linear equations, solving systems of linear inequalities, function notation, the domain and range of functions, and data analysis with statistics and probability. Students enrolled in this class will take the Keystone Algebra Exam during the 4th marking period.

**Prerequisites:** Students enrolled in Math 8 who earn a Proficient or Advanced score on Grade 8 PSSA Math exam will be scheduled into this class. Students who score Basic on the 8th Grade Math PSSA may take this course with a recommendation from an 8th grade teacher. In these cases, student data such as CDTs, Firefly assessments, and PVAAS projections may also be utilized for placement.

### **Keystone Algebra II Honors [316]**

YEAR (1.0 Credit) Rank 2

This course is the last of three Algebra courses. It is aligned to the Pennsylvania Keystone Assessment Anchors, focusing on complex numbers, solving/graphing quadratic equations, solving/graphing exponential and logarithmic equations, solving/graphing rational equations, applications of functions, simplifying radical expressions, solving radical equations, sequences and series, and probability. Students will be required to complete honors level work at a pace designed to prepare them for additional honors caliber and advanced placement coursework. Enrichment will occur through in-depth analysis of all topics as well as acceleration towards Trigonometric and Pre-Calculus skills.

**Prerequisites:** Successful completion of Keystone Algebra IB/Keystone Algebra Accelerated and a Keystone Geometry course or teacher recommendation. Student data such as CDTs, Firefly assessments, PVAAS projections, and Keystone scores may also be utilized for placement. *Note: Keystone Geometry or Keystone Geometry Honors may also be taken concurrently with this course.*

### **Keystone Algebra II [317]**

YEAR (1.0 Credit) Rank 3

This course is the last of three Algebra courses. It is aligned to the Pennsylvania Keystone Assessment Anchors, focuses on complex numbers, solving/graphing quadratic equations, solving/graphing exponential and logarithmic equations, solving/graphing rational equations, applications of functions, simplifying radical expressions, solving radical equations, sequences and series, and probability.

**Prerequisites:** Successful completion of Keystone Algebra IB/Keystone Algebra Accelerated and successful completion of Keystone Geometry. *Note: Keystone Geometry may be taken concurrently with this course.*

### **Keystone Algebra II Concepts [317C]**

YEAR (1.0 Credit) Rank 3

This Algebra II course is designed to teach the core concepts of Keystone Algebra II at a pace suitable for all learners. While aligned to the Pennsylvania Keystone Assessment Anchors, the course topics include: solving / graphing linear equations and inequalities, working with systems of equations, solving / graphing quadratic equations, working with imaginary numbers, simplifying radical and polynomial expressions, statistics and probability, imaginary numbers, and simplifying radical expressions. If necessary, this course will also help students to prepare for the Keystone Algebra I Exam retake. *This course is not NCAA-approved.*

**Prerequisites:** Successful completion of Keystone Algebra IB and one of the following: failure to reach proficiency on the Keystone Algebra I Exam or teacher recommendation.

### Algebra II Concepts with Geometry [327]

YEAR (1.0 Credit) Rank 3

This course is aligned to the Pennsylvania Keystone Assessment Anchors. It is designed to help students achieve on the SAT exam. This application-based course focuses on solving systems of equations and inequalities, applications of functions, simplifying radical expressions, solving radical equations, applications of polygons, applications of circles, area and volume, data analysis, and probability. *This course is not NCAA-approved.*

**Prerequisites:** Successful completion of Keystone Algebra II Concepts.

### Keystone Geometry Honors [318]

YEAR (1.0 Credit) Rank 2

Course topics focus on the Pennsylvania State Keystone anchors, as well as selected SAT content domains, and include, but are not limited to, angles and segments, an in-depth study of two-column proofs, parallel lines, triangles and their congruence and similarity, parallelograms and other polygons, circles, area and volume, transformations, and the application of basic trigonometric functions. Students will be required to complete honors level work at a pace designed to prepare them for additional honors caliber and advanced placement coursework. Enrichment will occur through in-depth analysis of all topics as well as acceleration towards trigonometric skills.

**Prerequisites:** Successful completion of Keystone Algebra IB/Keystone Algebra Accelerated. Student data such as CDTs, Firefly assessments, PVAAS projections, and Keystone scores may also be utilized for placement.

### Keystone Geometry [319]

YEAR (1.0 Credit) Rank 3

Course topics focus on the Pennsylvania State Keystone anchors, as well as selected SAT content domains, and include, but are not limited to, angles and segments, parallel lines, triangles and their congruency and similarity, parallelograms and other polygons, circles, area and volume, transformations, and the application of basic trigonometric functions.

**Prerequisite:** Successful completion of Keystone Algebra IB/Keystone Algebra Accelerated.

### Trigonometry and Pre-Calculus [324]

YEAR (1.0 Credit) Rank 3

The focus of the analytical trigonometry portion of the course will be on fundamental trigonometry concepts such as trigonometric functions, right triangle trigonometry, radian measure, trigonometric equations, and trigonometric identities, as well as applications thereof. The Pre-Calculus portion of this course includes topics such as graphing transformations, logarithms, exponential models, and the use of graphing calculators.

**Prerequisites:** Successful completion of both Keystone Geometry and Keystone Algebra II, or teacher recommendation. Student data such as CDTs, Firefly assessments, PVAAS projections, and Keystone scores may also be utilized for placement.

### AP Precalculus [329]

YEAR (1.0 Credit) Rank 1

AP Precalculus is designed to offer opportunity for college credit and to also prepare for continued rigorous coursework in mathematics. Course topics include, but are not limited to, an in depth study of rates of change, polynomial functions, rational functions, exponential modeling, logarithmic modeling, trigonometric functions, and polar functions. A graphing calculator (TI-89 Titanium or the TI-Nspire CX II CAS) is required for this course. Students MUST take the Advanced Placement exam in the spring of the year.

**Prerequisites:** Successful completion of Honors Algebra II or Trigonometry and Pre-Calculus, or teacher recommendation. Student data such as grades and PVAAS scores may also be utilized to determine placement.

### Introduction to Calculus Honors [331]

YEAR (1.0 Credit) Rank 2

This course is designed for the student that wants to take a course without the academic rigor of the Advanced Placement Calculus AB course. Topics will include conic sections, limits, derivatives, application of derivatives, basic integrals and their application. If a student has received credit for AP Calculus AB, the student is not eligible to take this course.

**Prerequisites:** Successful completion of Trigonometry and Pre-Calculus or teacher recommendation.

### AP Calculus AB [332]

YEAR (1.0 Credit) Rank 1

Calculus AB is designed for the serious mathematics student who wants to earn college credit. Instruction is aligned to the Advanced Placement Exam which is given in May each year. Course topics include, but are not limited to, limits, derivatives, application of derivatives, integrals, and application of integrals. A graphing calculator (TI-89 Titanium or the TI-Nspire CX II CAS) is required for this course. Students MUST take the Advanced Placement exam in the spring of the year.

**Prerequisites:** Successful completion of Honors Trigonometry and Pre-Calculus, Introduction to Calculus Honors, or teacher recommendation. Student data such as grades and PVAAS scores may be utilized to determine placement.

### AP Statistics [333]

YEAR (1.0 Credit) Rank 1

The AP Statistics course is intended to involve students in the rigor of a college-level mathematics course. The course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Four major themes will be covered: exploratory analysis, planning a study, probability and statistical inference. A graphing calculator (TI-89 Titanium or the TI-Nspire CX II CAS) is required for this course. Students MUST take the Advanced Placement exam in the spring of the year.

**Prerequisite:** Successful completion of Trigonometry and Pre-Calculus or the course can be taken concurrently with Trigonometry and Pre-Calculus or teacher recommendation. Student data such as CDT's, Firefly assessments, and PVAAS may also be utilized for placement.

### AP Calculus BC [334]

YEAR (1.0 Credit) Rank 1

Calculus BC is a full year course that will require a single period each day. Students in this course must have satisfactorily completed AP Calculus AB. Calculus BC will include a review of all topics covered in Calculus AB along with parametric, polar, and vector functions, integration by parts, partial fractions, indefinite integrals, logistic differential equations and Taylor Series. Students MUST take the Advanced Placement exam in the spring of the year.

**Prerequisite:** Successful completion of AP Calculus AB or teacher recommendation. Student data, such as grades and PVAAS scores may be utilized to determine placement.

### Probability & Statistics [339]

Grade 12

YEAR (1.0 Credit) Rank 3

This course is a senior course that stresses fundamental statistics without the academic rigor of the Advanced Placement Statistics course. Topics will include: the gathering and analysis of data, description and display of a data set, uses for statistics, an introduction to probability theory, probability distributions, confidence intervals, and hypothesis testing. If a student has received credit for AP Statistics, the student is not eligible to take this course.

**Prerequisite:** Successful completion of all Keystone courses or teacher recommendation and enrollment in 12th grade.

# Science Courses

All DHS students must complete at least 1.0 credit of Science per year.

To ensure that all students are properly prepared to successfully achieve proficiency on the Keystone Biology Exam, all students must:

- Follow the Foundations of Biology I [405] to Foundations of Biology II [406] course sequence where students will take the Keystone following the completion of both courses, or
- Take at least one of the following two courses prior to their Junior year: Keystone Biology Honors [409] - AP Biology [412].

## **Foundations of Biology I [405]**

Grade 9

YEAR (1.0 Credit) Rank 3

Biology is the study of life! The first of two Foundations of Biology courses will examine organization of matter and energy flow in organisms, cycles of matter and energy transfer in ecosystems, ecosystem dynamics and resiliency, interdependent relationships in ecosystems, and social interactions among organisms. Students who successfully complete this course will then enroll in Foundations of Biology II.

## **Foundations of Biology II [406]**

Grade 10

YEAR (1.0 Credit) Rank 3

The second of two Foundations of Biology courses will delve into the continuity and unity of life. Students will study cell growth and reproduction, genetics, and the theory of evolution. Students enrolled in this course will take the Keystone Biology exam during the 4th marking period.

## **Keystone Biology Honors [409]**

Grade 9

YEAR (1.0 Credit) Rank 2

Keystone Biology covers the same topics as Keystone Biology, but includes Ecology standards addressed in the Integrated Science course. Students should anticipate more independent reading and assignments than in Keystone Biology. This course will also emphasize a hands-on laboratory component. Students enrolled in Keystone Biology Honors will take the Keystone Biology Exam during the 4th marking period.

Required summer assignments will be available for this course in June.

**Prerequisite:** 92% or higher average in previous science course by the end of 3rd marking period. Student data such as CDTs, Firefly assessments, PVAAS, and PSSA may also be utilized for placement.

## AP Biology [412]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 1

The Advanced Placement Biology program provides able and motivated students with an opportunity to pursue college level biological studies while still in secondary school. The course is equivalent to a two-semester college introductory biology course. Students enrolling in the course are expected to take the AP Biology exam at the completion of the course. The College Board has revised the curriculum by shifting from a traditional “content coverage” model of instruction to one that focuses on the enduring, conceptual understandings and the content that supports them.

Students who take this course will develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. College-level textbooks are used and an emphasis is placed on laboratory experiments and written lab reports. This course is extremely accelerated and tremendous responsibility will be placed on the student to succeed in this course. Students who wish to take AP biology should consider doing so during their junior or senior year. *Note: Honors Chemistry can be taken concurrently with AP Biology.*

Summer and winter break assignments will be required.

**Prerequisites:** 83% or higher Honors Keystone Biology or 92% or higher in Foundations of Biology II, or teacher recommendation. The College Board recommends Keystone Biology Honors and Chemistry as prerequisites. Student data such as grades and PVAAS scores may be utilized to determine placement.

## Chemistry [420]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 3

This course is intended for students pursuing a non-science major at the post-secondary level. Chemistry covers many of the same topics and concepts as Honors Chemistry with more emphasis placed on hands-on concepts and everyday applications of scientific principles. *Note: This course may be taken concurrently with Physics.*

**Prerequisites:** Successful completion of Keystone Algebra 1 and Foundations of Biology II or with teacher recommendation.

## Honors Chemistry [421]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 2

Honors Chemistry is designed to provide students who are considering science majors in postsecondary education with a rigorous experience with chemical principles and laboratory procedures that will ensure their initial success in additional coursework at the university level. This course will maximize opportunities for the individual to polish mathematical skills and scientific skills. Students selecting Honors Chemistry should have above average grades in previous math and science courses, should be motivated and willing to work independently, and be willing to ask for extra assistance, when needed. *Note: This course may be taken concurrently with other science courses.*

**Prerequisites:** 93% or higher in Keystone Algebra II or concurrent enrollment in Keystone Algebra II Honors and one of the following: 83% or higher in Honors Biology or 92% or higher in Foundations of Biology II or with teacher recommendation. Student data such as CDTs, Firefly assessments, and PVAAS may also be utilized for placement.

### **AP Chemistry [422]**

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 1

The Advanced Placement Chemistry course is designed to be the equivalent of the general chemistry course taken as a college freshman. The pace, performance expectations, grading and time spent outside of class are equivalent to a freshman college course. In addition to quizzes, tests, and homework, students will conduct inquiry lab experiments and complete an extensive lab notebook for many of the suggested 16 laboratory experiments recommended by the College Board. The AP student will acquire an extensive conceptual understanding of chemical fundamentals that is based on competence in chemical problem solving. Honors Chemistry serves as a basis for AP Chemistry where additional topics and concepts are covered. Testing is at a more challenging level than Honors Chemistry in order to ensure that students are prepared for the AP exam. The successful AP Chemistry student is self-motivated and a responsible learner who prioritizes tasks wisely and manages time efficiently. Students must take the AP Chemistry exam in the spring of the year. *Note: This course can be taken concurrently with another science course.*

**Prerequisites:** Successful completion of Keystone Algebra II/Keystone Algebra II Honors and 83% or higher in Honors Chemistry or 92% or higher in Chemistry and a teacher recommendation.

### **Organic Chemistry Honors [423]**

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 2

This Honors level course is designed for students who are considering the pursuit of a science major or students who plan to pursue health-care professions. The course will emphasize the identification, naming and drawing of organic molecules with the following functional groups: alkanes, alkenes, alcohol, carboxylic acids, aldehydes, ketones, amines, amides, ethers, and esters. Characteristic chemical reactions of these functional groups will be introduced. Common organic laboratory skills, techniques, and equipment will also be used.

**Prerequisite:** Successful completion of Chemistry or Honors Chemistry.

### Environmental Science [424]

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This is an introductory course designed for students who are interested in engaging with the world around them. This course will examine topics from basic ecological principles through human population and their impact on the environment. Students will acquire skills needed to continue their education in science and develop the ability to address environmental issues throughout their lives. This course will also emphasize hands-on, project based learning experience.

**Prerequisite:** Successful completion of Foundations of Biology II or Keystone Biology Honors.

### Astronomy [425]

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 3

Astronomy is presented on a general level with texts, computer simulations, and supplemental materials aimed at both making things clearer and enriching the subject matter. There is an emphasis placed on naked-eye astronomy to encourage students to routinely look at the night sky and broaden their knowledge of what they can see. There is also an emphasis placed on equipping students to find and use any number of good online astronomy sources. Topics include the historical development of astronomy, observational astronomy, the science of astronomy, classification of stars, the Milky Way and galaxies, and cosmology.

**Prerequisite:** Successful completion of Foundations of Biology II or Honors Keystone Biology.

### Anatomy and Physiology [426]

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 3

This course examines human anatomy by exploring the body, system by system. This will be accomplished through lecture, audio-visual aids, demonstrations, and extensive laboratory activity, including, but not limited to, the dissection of fetal pigs and other mammals.

**Prerequisite:** Successful completion of Foundations of Biology II or Honors Keystone Biology.

### Entomology Honors [428]

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 2

This course explores the world of insects from a practical and scientific perspective. Topics covered include methods of insect collection and identification, insect ecology and taxonomy, insect anatomy, and the economic and environmental impacts of insects. Students will utilize various insect sampling methods and study the samples collected throughout the course. This course is recommended for students with an interest in environmental science, wildlife biology, biodiversity, or insect surveying used in agricultural applications. *This course is not NCAA-approved.*

**Prerequisite:** Successful completion Foundations of Biology II or Honors Keystone Biology.

### Physics [430]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 3

Physics uses mathematics to describe the world around you. This course will introduce the student to the areas of mechanics, heat, waves, electricity, and magnetism. Studying physics will improve deductive problem-solving skills and relate applying mathematics to real-life situations through hands-on lab experiences. Students who do not intend to be science majors at the post-secondary level should select this course.

**Prerequisites:** An Algebra II course and Keystone Geometry or science teacher recommendation.

### Honors Physics [431]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 2

Honors Physics will cover many of the same topics as Physics while placing students in a more mathematically-challenging environment with hands-on labs. This course is designed for students desiring a challenging curriculum, but who choose not to enroll in AP Physics.

**Prerequisite:** Trigonometry & Pre-Calculus or currently enrolled in Trigonometry & Pre-Calculus or science teacher recommendation

### AP Physics C - Mechanics [433]

Grades 11 & 12

YEAR (1.0 Credit) Rank 1

Advanced Placement Physics C - Mechanics is designed to be the equivalent of a general physics course taken as a college freshman. The pace, performance, expectations, grading and time spent outside of class are equivalent to those expected in a freshman college course. In addition to quizzes, tests and homework, students will conduct laboratory experiments. This course will cover Newtonian Mechanics, which includes: Kinematics, Laws of Motion, Energy, Momentum, Circular Motion and Simple Harmonic Motion. This is a calculus-based course. Students are expected to take the AP Physics exam in May. This course is designed for science and engineering majors.

**Prerequisite:** AP Calculus AB or must currently be enrolled in AP Calculus AB

### Zoology [448]

Grades 11 & 12

SEMESTER (0.5 Credit) Rank 3

Zoology focuses on animal biology. It presents a survey of the animal kingdom with emphasis on diversity, evolutionary relationships, and functional adaptation. Students will be able to explain the position of a group in the animal kingdom, identify the characteristics that distinguish one group from another, discuss the shared properties of living systems within the animal kingdom, discuss the structural levels of organization of animal body plans, and compare anatomical and physiological function among various members of the animal kingdom. This will be accomplished through lecture, observation, laboratory exercises (including dissection), presentations, projects, and demonstrations.

**Prerequisite:** Successful completion of Foundations of Biology II or Honors Keystone Biology

### **Wildlife Habitats and Management [911]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course will focus on the major wildlife species in North America such as small and large mammals, upland game birds, waterfowl, songbirds, avian predators, shorebirds, reptiles, amphibians, and freshwater fishes. The management and habitat of these species will be investigated by conducting hands-on studies. *This course is not NCAA-approved. Note: Wildlife Habitats and Management is also listed in the Science area and may be used as a science credit.*

### **Honors Veterinary Science [912]**

Grades 11 & 12

YEAR (1.0 Credit) Rank 2

Students enrolled in this course will have the opportunity to investigate animal anatomy and physiology, handling and restraining, diseases and methods of control, surgical skills, examinations and treatments, laboratory techniques, and identification. Practical hands-on experience with animals will be used whenever possible in laboratory sessions. This course is not NCAA-approved. *Note: Honors Veterinary Science is also listed in the Agricultural Science area and may be used as a science credit.*

**Prerequisite:** Successful completion of Foundations of Biology II or Keystone Biology Honors

### **Animal Science / Nutrition & Welfare [915A]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course allows students to explore the animal anatomy involved in these processes. Students will also have the opportunity to investigate animal rights issues. Special emphasis is given to animal safety. This course will allow students to investigate agricultural business topics such as developing their own animal feed product. Students will investigate the market for such a product and then propose a marketing and production strategy. This course is not NCAA-approved. *Note: Animal Science / Nutrition and Welfare is also listed in the Science area and may be used as a science credit.*

**This course is offered every other year and will be offered in the 2026-27 SY.**

### **Botany Honors [918A]**

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 2

This Honors level course will expose students to the thrilling world of plants. Students will work on major projects and problems similar to those faced by modern plant scientists through a variety of exciting activities and projects. Most lessons have a teamwork focus with students working on collaborative research and lab experiments. Units of study will include: Worlds of Opportunity, Mineral Soils, Soilless Systems, Anatomy and Physiology, Taxonomy, The Growing Environment, Sexual Reproduction, Asexual Reproduction, and Surviving a Harsh Environment. Based on the inquiry based instructional model STEM, this course will develop a diverse set of skills and problem-solving techniques that can be used in all areas of study. *Note: Botany Honors is also listed in the Agricultural Science area and may be used as a science credit.*

### **AP Environmental Science [925]**

Grades 11 &12

YEAR (1.0 Credit) Rank 1

Advanced Placement Environmental Science is designed to be the equivalent of an introductory college course in environmental science. The course topics include Earth Systems and Resources, The Living World, Population, Land and Water Use, Energy Resources and Consumption, Pollution, and Global Change. Intensive study in these areas provides a solid foundation in preparation for the AP Environmental Science exam. This course is based upon scientific principles and analysis from a variety of scientific fields and approaches and includes a laboratory and field investigation component. *Note: AP Environmental Science is also listed in the Agricultural Science area and may be used as a science credit.*

### **Fundamentals of Engineering Honors [1000]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 2

The course is for students who may have an interest in engineering. Exploring basic computer-aided design and concepts in data collection analysis and modeling, students will learn and investigate engineering and engineering concepts. This course is an interactive, hands-on, project-based course and will allow students to gain exposure to multiple engineering disciplines including Civil, Mechanical, Electrical and other Engineering fields. Topics and projects to be covered in this course include: design software, hydroponics, strengths of materials, electrical systems, and renewable energy sources. Each student will have the opportunity to explore a topic of their choice for a final project. *This course is not NCAA-approved.*

# Business & Computer Courses

## **Accounting I [501]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Accounting is the language of business. Accounting I covers the full accounting cycle for a services-based business and a merchandising business, and includes accounting concepts like debits/credits, t-accounts, journalizing/posting transactions, worksheets, adjusting entries, cash controls, AR/AP, and creating financial statements. This fun and practical course consists of interactive based projects.

## **Accounting II [502]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Accounting II covers more advanced accounting concepts such as depreciation, inventory costing, processing payroll, payroll taxes, special journals, acquiring capital, and accruals/deferrals. It also explores financial analysis, strategic decision making, and the various legal and ethical principles associated with the accounting function. Prerequisite: Successful completion of Accounting I.

## **Financial Management [503]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course will inform students how individual choices directly influence occupational goals and future earnings potential. Real world topics covered will include banking, budgeting, managing credit, insurance, as well as saving and investing. Unique topics include paying for college, purchasing a car, protecting your identity, and remaining debt-free.

Students in the Class of 2028 are strongly encouraged to complete this course prior to graduation. As mandated by the Pennsylvania Department of Education, students in the Class of 2029 and beyond are required to successfully complete Financial Management. This course is most appropriate for Juniors and Seniors. This course will count as elective credit.

## **Small Business Social Media and Advertising [504]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course was created to have students learn the newest types of digital marketing strategies while also helping out their school or local business. Technology has grown and is enabling businesses to connect to their target market like never before. This course not only teaches students digital and social media marketing, but it has them apply their knowledge to create real-world content to better not only the school but the community.

### **Marketing [505]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course introduces students to the fundamentals of marketing. Topics covered will include market planning, pricing, product/service management, promotion, market segmentation, the sales process, and distribution. The goal of this course is to enable students to understand marketing functions and its impact in a global economy.

### **Business & Personal Law [507]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Business and Personal Law takes a real-world approach to law as it relates to the life of a teenager in the 21st century. Using real and fictional case studies, students will dissect evidence, discover motive and formulate findings based on classroom readings, discussions and role-plays. Within each case study students will learn basic law concepts including civil/criminal law, tort law, contracts, consumer rights, and cyber law. The completion of this course will enable students to better understand the world in which they live and understand their legal rights and responsibilities.

### **Introduction to Business [508]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Introduction to Business is a foundational course that provides an engaging overview of the world of business and the career pathways available within it. Students will explore core business concepts such as personal finance, entrepreneurship, marketing, accounting, and management while developing essential skills in communication, teamwork, and problem-solving. Through hands-on activities, real-world examples, and project-based learning, students will gain a broad understanding of how businesses operate and how these principles apply to everyday life. This course serves as an introduction to the business program and helps students build the knowledge and confidence needed to successfully pursue advanced business courses offered at DHS.

### **Sports and Entertainment Marketing [509]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

In this course, students will develop a fundamental understanding of marketing concepts that relates to the sports and entertainment industries. Topics will include college and amateur sports, professional sports, public images, marketing entertainment, marketing plans, promotional planning, and legal issues. In addition, this course is designed to show how advertising, sales, event marketing and communications are important. The activities in this course will help students to develop critical thinking, decision making, and communication skills. This course is recommended for any student who is considering a career in Business, Marketing, Sports & Entertainment, or Public Relations.

### **Entrepreneurial Occupation Experience [516]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) / SEMESTER (0.5 Credit) Rank 3

This course offers students a practical engagement with entrepreneurial business concepts. Students will develop, plan, implement, and manage a project designed to simulate real-world business experiences. Detailed records of the project's progress and outcomes are required, including documentation of time spent working on the business plan. This course also provides opportunities for students to gain valuable experience and dedicated time towards FBLA activities. The project must be pre-approved by the instructor. Credit is awarded based on the scope and quality of the individual project and its documentation. This course may be repeated for credit, allowing students to further develop and refine their business skills and experience. Specific skills and content related to successful completion of the National Occupational Competency Testing Institute (NOCTI) exam will be emphasized.

### **Entrepreneurship [551]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course provides students with the opportunity to learn skills necessary to run their own business. These concepts include marketing, acquiring financing, managing, and the legal requirements of owning and operating a small business will be explored.

### **Introduction to Game Design [553]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This is a one semester course that introduces students to game design and programming. Students learn to design, develop, and publish games. Throughout the course, students learn about major programming topics like variables, functions, conditionals, and mouse/keyboard events while building fun and interactive games that they can play and share with others. Students practice computational thinking skills as they plan, develop, and test their programs.

### **Introduction to Python Programming [581]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Introduction to Python Programming introduces students to the fundamentals of computer programming, with an emphasis on helping students develop logical thinking and problem-solving skills. Students will learn to design, code, and test their programs while applying mathematical concepts. Once students complete this course, they will have learned material equivalent to the first half of a semester college introductory course in computer science and be able to program basic Python programs.

### AP Computer Science [585]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 1

Students will learn advanced methods of programming taught at the college level. Areas of emphasis will include basic program design, object-oriented design, data and information processing, and software development. Students will apply their knowledge through required, hands-on structured lab components consisting of three AP Computer Science A labs. The programming language may vary from year to year, based upon the standard set by the College Board. Students must take the Advanced Placement exam in the spring of the year.

**Prerequisite:** Successful completion of any one of the following: 1) Keystone Algebra II Honors, or 2) Keystone Algebra II, or 3) teacher recommendation.

### AP Computer Science Principles [587]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 1

This course introduces students to the foundations of modern computing and challenges them to explore how computing and technology can impact the world. A broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing will be covered. This course was designed with the goal of creating leaders in computer science fields and attracting and engaging those who are traditionally underrepresented with essential computing tools and multidisciplinary opportunities. Students must take the Advanced Placement exam in the spring of the year. While not required, it is recommended that students take either Android Game Design or Computer Programming With Java before taking this course. **This course will NOT be offered in the 2026-27 SY.**

### Capstone Experience: Entrepreneurship [973]

Grade 12

YEAR (1.0 Credit) Rank 3

The Capstone experience for the Entrepreneurship program (CIP 52.0701) serves as a professional extension of the classroom, allowing students to apply technical competencies across the diverse sectors of the business, management, and administrative industries. Under a formal Training Plan, students engage in paid, hands-on employment in various settings, including small business startups, corporate marketing departments, retail management offices, or financial service firms, to refine skills that directly align with the program's comprehensive state task list. This work-based learning model ensures that students gain real-world proficiency in their chosen entrepreneurial pathway while receiving joint supervision from a certified school coordinator and a business mentor.

# World Languages Courses

## **French I [610]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 3

This course is an introduction to the French language and culture. We will learn the new sounds of the French language through oral repetition, listening exercises, video clips, and examples drawn from current events. We will study a modest vocabulary and will begin conversation on basic topics, such as clothing, colors, and telling time. We will also learn how to read and write simple French.

## **French II [611]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 3

This course creates new opportunities for the student to use French on a daily basis, as we learn how to give directions, purchase items from a store, express feelings, describe illnesses and travel. The students will expand their vocabulary and proficiency in French grammar through daily reading and listening exercises. The majority of the verb tenses will be introduced along with cultural studies and basic concepts about the construction of meaning.

**Prerequisite:** Successful completion of French I

## **French III [612]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 3

This course is conducted mostly in French as we master grammatical forms and conduct daily conversations and simulated activities, from ordering and paying for food to car problems and popular culture. Students will compose more complex French, listen to up to the minute news broadcasts, and read authentic French from a wide variety of sources and eras. We introduce the French literary tenses and delve into the French thinkers of the 20th and 21st centuries. **Prerequisite:** Successful completion of French II

## **AP French Language and Culture [609]**

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 1

AP French emphasizes the three modes of communication (Interpersonal, Interpretive, and Presentational) and provides students with opportunities to demonstrate their proficiency in each of the three modes in the Intermediate to Pre-Advanced range. The course takes a holistic approach to language proficiency and cultivates vocabulary usage, listening comprehension, language control, communication strategies, and cultural awareness. AP French strives to promote both fluency and accuracy in language use and clarity in thinking and expression and not only grammatical accuracy. The course is conducted entirely in French and the students must take the AP Exam in May. *Note: This course may not be offered depending on enrollment numbers.* **Prerequisite:** 92% or higher in French III or teacher recommendation. Student data such as grades and PVAAS scores may be utilized to determine placement.

### **Spanish I [620]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 3

By using a balanced-skills approach, Spanish I introduces the student to the Spanish language and Hispanic culture. Emphasis is placed on learning the vocabulary and grammar necessary for communication in situations in everyday life. Basic conversational topics include describing oneself, the classroom, the family, likes and dislikes, and daily activities. Spanish I is an academic course designed for students who are college-bound. Although the focus is on production, this course requires significant amounts of memorization of vocabulary and grammatical structures.

### **Spanish II [621]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 3

The second year of Spanish focuses on acquisition of vocabulary and grammar skills as well as refining skills learned in the first year of Spanish. The course is taught in both Spanish and English and focuses on student production and use of the target language. Students focus on their reading, writing, speaking and listening skills in the target language. Cultural aspects are studied as well.

**Prerequisite:** Successful completion of Spanish I at DHS / National Spanish Exam score or teacher recommendation from DMS

### **Honors Spanish III [622H]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 2

Honors Spanish III will focus on continued development of an intermediate level of proficiency in Spanish. Similar to Spanish III, emphasis is placed on student production of the language in discussing present, future, and past events, though with significant extension and increased pacing. An introductory understanding of some advanced grammatical concepts will be included. Appreciation of the various cultures of Spanish-speaking countries will be integrated throughout the course. Honors Spanish III will be conducted in Spanish.

**Prerequisites:** 92% or higher in Spanish II and teacher recommendation / National Spanish Exam score or teacher recommendation from DMS

### **Honors Spanish IV [623]**

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 2

In Spanish IV the student is provided with an in-depth study of the four language skills - speaking, listening, reading, and writing - and a deepening appreciation for the cultures of the Spanish-speaking world. Basic to all language learning, grammar is a fundamental part of this course. We build upon the grammatical concepts taught in Spanish II and III. Integrated with the grammar study is a variety of reading, writing, speaking, and listening experiences. The students also have many opportunities to learn about Spanish speaking people and cultures by reading authentic literary texts.

**Prerequisites:** 83% or higher in Honors Spanish III or teacher recommendation.

## AP Spanish Language and Culture [624]

Grades 11, 12

YEAR (1.0 Credit) Rank 1

During the summer before taking AP Spanish, students are required to read several articles, short stories, and / or passages, and write summaries and essays. Designed to be the equivalent of a 5th or 6th semester university course, emphasis is placed on the advanced development of all five language components. Students will have the opportunity to: (1) speak in Spanish; (2) listen to native speakers on tapes and videos; (3) read authentic materials and various literary works; (4) communicate through speaking and writing; and (5) learn about practices and customs in Spanish-speaking countries. Students also view several Spanish and Latin American films. Students must take the AP exam given in May.

**Prerequisites:** Spanish IV Honors 83% or higher in Spanish IV or teacher recommendation.

## Spanish VI Independent [629]

Grade 12

YEAR (1.0 Credit) Pass/Fail

This course is offered to those students who successfully completed AP Spanish Language and Culture. The course will continue to develop intermediate-mid to intermediate-high levels of proficiency in all skill areas and focused concentration on Spanish and Hispanic cultures. Students may opt to prepare for the AP Spanish Literature and Culture Exam offered in May, although this course does not carry the College Board AP designation for Literature. *Note: This course is a Pass/Fail course.*

**Prerequisite:** 83% or higher in AP Spanish or teacher recommendation.

# Art Courses

## Art I [710]

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 3

This Art 1 course introduces foundational design concepts and techniques through a series of structured, teacher-guided assignments. Students will engage in a wide variety of hands-on media, including drawing, mechanical perspective, color theory, painting, printmaking, computer graphics, ceramics, and sculpture. The curriculum is designed to meet the artistic needs and skill levels of all students, fostering creativity and a comprehensive understanding of artistic principles.

## Ceramics [712]

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This comprehensive ceramics course provides in-depth instruction covering all primary techniques of the medium. Students will gain practical experience in various forms of hand-building and learn the fundamentals of throwing on the wheel. Ceramics also integrates the principles of design and sculpture, encouraging creative expression and technical proficiency. Furthermore, participants will explore the various surface treatments, including hands-on experience with glaze mixing and the firing process. *Note: This course can be taken concurrently with Art I.* **Prerequisite:** Art I except for juniors and seniors.

## Ceramics II [713]

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Ceramics 2 students will apply previously-learned skills to create unique clay works that are refined in form and use of glaze. Ceramics 2 provides students with the opportunity to develop an “in depth” knowledge and applied skills in the art of ceramics. Wheel techniques will be fully explored, as well as many sculptural and glazing techniques. Activities will be individualized according to the ability level of each student. At the completion of this course, students will have developed a deep understanding of glaze formulation, the kiln-firing process, wheel-throwing, and clay sculptural skills.

**Prerequisites: Art I & Ceramics I**

## Painting [718]

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Students will explore a diverse range of painting techniques, encompassing both structured and experimental approaches. The course covers the academic style of oil painting, along with abstraction, non-objective art, and layering techniques using watercolor. Hands-on skills are developed through learning to prepare surfaces, including how to stretch and prime canvas, and how to use palette knives and brushes effectively. Students will create finished pieces using a variety of mediums, such as oil, watercolor, acrylic, mixed media, and oil pastels. *Note: This course can be taken concurrently with Art I.*

**Prerequisite:** Art I except for juniors and seniors.

## Painting II

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

During this course, students will create a portfolio of works that effectively shows that they are challenging themselves in their choice of subject matter as well as paint application. This course will provide an opportunity for students to expand on the painting concepts introduced in Painting 1, as well as Art 1. Emphasis is placed on experiences with design principles, painting techniques, and painting skills leading to the development of abilities that are necessary for advanced art courses. Students are given more in-depth problems to solve creatively while becoming more adept through a broad exposure to various media.

**Prerequisites:** Painting I

## AP Studio Art 2-D [725A]

Grades 11 & 12

YEAR (1.0 Credit) Rank 1

This course is designed for students with a serious interest in the practical experience of art who want to develop mastery in the conception, composition, and execution of their ideas. Through studio practice, the application of design concepts, and informed decision-making, students will assemble a comprehensive body of artwork for credit evaluation near the completion of the school year. This portfolio will demonstrate a high level of quality in content, technique, and process. In building the portfolio, students will experience a variety of techniques and approaches designed to help them demonstrate their abilities, versatility, problem-solving skills, and ideation. This course may require additional work to be completed outside of the classroom.

**Prerequisite:** Successful completion of Art 1 and a minimum of one studio art elective. Department permission required.

### AP Studio Art 3-D [725B]

Grades 11, 12

YEAR (1.0 Credit) Rank 1

This course helps students develop advanced three-dimensional (3D) skills through exploration of various materials and processes. Students will engage in practical applications across diverse mediums, including sculpture, architectural rendering and modeling, metalwork, ceramics, and glasswork. The curriculum emphasizes translating theoretical knowledge into tangible artistic expression, fostering the creation of unique artwork that reflects students' individual ideas and technical proficiency. **Prerequisite:** Successful completion of Art 1 and a minimum of one studio art elective. Department permission required.

### AP Drawing [7111]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 1

AP Studio Art is intended for dedicated high school artists interested in completing a comprehensive portfolio for submission to the College Board's AP Program. Throughout the course, students explore diverse techniques and approaches, enabling them to demonstrate versatility in problem-solving and ideation while building their portfolios. Due to the rigorous nature and performance expectations of the course, students should anticipate completing substantial work outside of scheduled class time. Upon near completion of the school year, students will develop and submit a comprehensive 2-D design portfolio for AP credit evaluation.

Please note that only one AP Studio Art course may be taken at a time unless explicit administrative approval is granted. **Prerequisite:** Successful completion of Art 1 and a minimum of one studio art elective. Department permission required.

### Interior Design [7112]

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course introduces students to the elements and principles of design as they apply to creating both functional and visually appealing residential interior spaces. Students will develop and showcase their creativity and personal design aesthetic through a series of projects that provide a well-rounded understanding of the field. Projects include a blend of digital and hands-on activities, such as 3-D Model Creation, Small-Scale Furniture Design and Construction, and Custom Wallpaper Design. Students will utilize industry-relevant software in the art room: Sketchup for Schools for digital space building, Google Slides for professional digital color boards, and Adobe Photoshop for creating custom wallpaper. No prior computer skills are required.

### **Digital Art and Photography [7114]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This introductory course offers students comprehensive skills in digital art creation and photo manipulation, providing practical experience with industry-standard software like Adobe Photoshop (or the equivalent, Photopea.com) and an introduction to Adobe Lightroom. Students will focus on scaffolding learned skills by utilizing various composition techniques and mastering the tools and methods necessary to digitally enhance, transform, and creatively combine both stock images and their own photography. To ensure a well-rounded artistic education, the curriculum also includes related hands-on projects that explore the connection between digital art and traditional practices, such as photography fundamentals and alternative processes like cyanotypes.

### **Adobe Animate [7116]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course introduces students to the fundamentals of 2-D animation and interactive design, providing practical experience in creating dynamic content using both industry-standard software, Adobe Animate, and the accessible web-based tool, Wick Editor. Students will learn the essential process of building complex digital assets by structuring the layers of their animations or games, and subsequently applying action commands to control movement and interaction. The curriculum blends foundational theory with modern application, progressing from historical animation techniques, such as flip books, frame-by-frame, and stop-motion, to advanced digital projects, including the creation of intricate layers for games and functional scrolling background animations.

### **Expressive Art [7119]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course offers students a unique opportunity to explore a diverse range of artistic mediums, including watercolor, inks, markers, oil pastels, charcoal, and acrylics, with projects specifically designed to integrate and reinforce the five social-emotional concepts (SEL): self-awareness, social awareness, self-management, relationship skills, and responsible decision-making. Students will engage in therapeutic art-making strategies and discover profound connections between artistic expression and SEL concepts through projects such as journaling, graffiti art, sticker design, posters, zentangles, and neurographic art, utilizing the creation process as a vehicle for self-discovery and emotional growth.

### **Dream Home Design [7120]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course offers students an immersive exploration of architectural styles and their historical evolution, providing the foundation necessary to understand and apply fundamental design concepts and creative problem-solving skills to residential planning. A key focus of the curriculum is the development of technical skills, including learning to read and draw blueprints and analyzing practical considerations like traffic flow within a space. The course culminates in a major project where students design their own dream home, aligning the final structure with their future goals, and then physically construct a detailed 1/4 scale model of that design.

### **Advanced Art I [728]**

Grades 11, 12

Year (1.0 Credit) - SEMESTER (0.5 Credit) Rank 3

This course will allow upperclassmen to pursue individual areas of interest in 2-D and 3-D Art. Projects may include the following: Photography, textile design, drawing, printmaking, sculpture, ceramics, painting, digital art, illustration, and mural painting/design. *Note: This is a Pass/Fail course.*

**Prerequisites: Art I, 1 or more Art Electives, & Teacher Recommendation**

### **Advanced Art II [729]**

Grades 11, 12

Year (1.0 Credit) - SEMESTER (0.5 Credit) Rank 3

Advanced Art II students will explore a variety of 2-D and 3-D media throughout the year to build artistic confidence and creativity. Compositional solutions are also covered. This course will allow for the further study of previously-learned art techniques. Students will develop a deep understanding of artists and art movements through the creation of original art prints, pottery, paintings, sculptures, murals, mixed-medium works, drawings, and digital art. *Note: This is a Pass/Fail course.*

**Prerequisites: Art I, 1 or more Art Electives, & Teacher Recommendation**

### **Fiber Arts [761]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This introductory, project-based course offers students a comprehensive and hands-on exploration of traditional and innovative fiber arts, culminating in the development of a diverse body of work that showcases a broad range of technical proficiencies. Students will master key techniques, including various forms of weaving (basket and loom), embroidery, crochet and/or knitting, and hand-sewn textiles. A significant component of the course is surface design, where students will apply various dyeing techniques to yarns, fabrics, and clothing, integrating these skills into a variety of smaller assignments throughout the semester and a final, cumulative project.

# Performing Arts Courses

## **Band [730]**

Grades 9, 10, 11, 12

Year (1.0 Credit) - SEMESTER (0.5 Credit) Rank 3

Band offers a diverse instrumental music experience. Guided by professional instruction, the student will be exposed to various styles of instrumental music literature while discovering the technical and physical requirements of performance on a brass, percussion, or woodwind instrument. A rotating pullout lesson schedule will be utilized to execute this instruction, similar to the rotating lesson schedule used at Danville Middle School. An addendum articulating the organization of this plan will be furnished to all band students, illustrating the care taken to ensure continued academic success.

The academic year begins with marching band activities. As the fall progresses toward the holiday season the student will begin to meld many of the performance techniques developed in marching activities with techniques needed in concert band. The concert band continues winter through early spring. The year wraps up by returning to marching band for a parade and early exploration of literature for the following fall. Through a competitive audition process, any band student will have the opportunity to participate in County Band and the Pennsylvania Music Educators Association sponsored District Band Festival, while students in grades 10-12 have the opportunity to move onto the Region and State Band Festivals. Throughout this course, the band unites students within an organization that plays as one while encouraging the development of each individual musician.

*Note: Participation in a week-long band camp during the summer to learn the marching show is required, as is attendance at all regular season football games.*

## **Concert Choir [734]**

Grades 9, 10, 11, 12

Year (1.0 Credit) - SEMESTER (0.5 Credit) Rank 3

Choir members will share experiences relating to learning and developing proper vocal techniques, becoming familiar with and performing various musical styles, and nurturing the idea of ensemble performance while improving individually as a vocal performer, showcasing these experiences within a number of public performances each year. Students will be exposed to a variety of musical styles, including classical, contemporary, spirituals, and musical theater.

Students in all grades are eligible to audition for the Columbia-Montour High School County Chorus Festival, held each fall. Students in grades 10, 11 and 12 are also eligible to audition for participation in Pennsylvania Music Educators Association sponsored District, Region, and All-State Chorus Festivals held each academic year throughout the state. Students who are interested in any of these festivals must be a member of Concert or Chamber Choir. This ensemble is a rewarding and excellent educational and musical opportunity for students with an interest in vocal music.

### **Music Theory [745]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Music Theory will provide an opportunity for students to explore music theory through a technical approach. This course is directed to two areas: Basic written theory of the elements of music and Aural theory skills, including ear training, sight training, sight singing, and melodic dictation. Music Theory is strongly recommended for students planning to pursue a music-related career.

### **Wind Ensemble [7301]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course, available to students by teacher recommendation at the end of the previous school year. Music repertoire will include advanced concepts and technical challenges as well as a variety of repertoire representing styles from history and cultures of the world. A high level of musicianship, desire to play advanced literature, teamwork and leadership skills are necessary for all students who wish to participate in this ensemble.

### **Chamber Choir [7341]**

Grades 10, 11, 12

Year/Semester (0.5-1.0 Credit) Rank 3

This course, available to students by audition at the end of the previous school year, is akin to Honors level classes in other areas. Chamber Choir integrates advanced concepts of vocal, musical and aesthetic aspects of choral music through analysis, rehearsal and performance. Students will work through music of varying styles and degrees of difficulty, applying both basic and advanced musical concepts in rehearsal and performances. Music repertoire will explore advanced concepts and technical challenges as well as a variety of repertoire representing styles from history and cultures of the world. A high level of musicianship, desire to sing advanced literature, teamwork, and leadership skills are necessary for all students who wish to participate in this ensemble.

### **Musical Theatre [733]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Students electing to take this course will delve into the history of musical theatre, its major composers, the most influential shows, character and song lyric analysis, and theater occupations during the first half of the course. The second half of the course is project-based and will include pitching a show for production, budgeting, advertisement, creating a playbill and writing a song and/or choreographing a dance. *Note: Music Theatre is a Spring semester course.*

### **Theatre Design [736]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Theater design is open to students in all grades who are interested in supporting and promoting the performing arts in our school. In this class students will be involved in various promotional activities such as creating programs, posters, and T-shirts. They will also help to design and construct various aspects of the stage and backdrops. This is an interdisciplinary class that will bring music, visual and performing arts together.

### **Theatre Arts I; History and Acting [737]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Theatre Arts I is open to students of all grade levels who are interested in drama and the performing arts. Theater Arts I is performance-based and delivers an overview of many areas of performance and theater history. Students will participate in the study of theater history, acting techniques, and memorized performances. Students are encouraged to participate in the school production during the semester in which they take the course.

# Family & Consumer Sciences

## **Child Development [752]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course will include both classroom instruction and the practical application of concepts in the on-campus Head Start laboratory preschool class. Whether you become a parent, work in a career that involves children, or just spend time with children, this class will offer you many opportunities for learning useful skills.

## **Foods [753]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Students are introduced to the concepts of food and kitchen safety and sanitation; kitchen tool identification, selection, care, and proper usage; measurements; reading and scaling recipes; food costs; and basic food preparation from scratch.

## **Adulting 101 [750]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course is designed to provide general knowledge in multiple disciplines of the Family and Consumer Science Curriculum. Students will study information that will help prepare them for adult life such as planning and preparing meals, child growth and development, housing and home management, and basic textile construction and repair. In this course students will learn basic daily living skills to include but not limited to: shopping for groceries, budgeting, cooking, laundry, sewing, child care, personal care, etc.

# Agricultural Science Courses

An Agricultural Science and Engineering Education at DHS will provide students with an understanding of and an appreciation for the production, utilization, and management of food, fiber, natural resources, and mechanical systems through laboratory and inquiry-based learning opportunities. A complete Agricultural Science and Engineering Education at DHS has three components: Classroom/Laboratory Instruction where knowledge and skills are acquired; Supervised Agricultural Experience (SAE) where knowledge and skills are used in real world settings; and FFA involvement where knowledge and skill are tested and leadership skills are developed. Numerous Agricultural Science courses also count as science credit towards graduation requirements.

Students who complete the required Agricultural Science & Engineering coursework have the opportunity to earn 3 college credits when they take the NOCTI Exam their senior year. Seniors who have completed all of their required Ag Science & Technology coursework, commit to taking the NOCTI, and have met their DHS graduation requirements may be eligible for Independent SAE during their senior year. In addition, the DHS Ag Science Department offers courses eligible for Penn College of Technology and Delaware Valley University (DVU).

Exceptions to program sequencing will be made on a case-by-case basis with administrative and Ag Teacher approval.

## **Introduction to Agricultural and Natural Resources [900]**

Grade 9

YEAR (1.0 Credit) Rank 3

This course will provide students with an introduction to concepts and careers in Agricultural Science. Since agriculture is the management of natural resources for the production of food, fiber, clean water, and a healthy environment, areas of exploration in this course include animal science (including small animals, horses, livestock, poultry, and aquaculture,) plant production and management, environmental studies, and working with wood and concrete. An emphasis will be placed on developing leadership and career opportunities. *Note: This is a recommended course for incoming freshman agricultural students.*

## **Intro to Geographic Information System (GIS) / Drone Science [905]**

Grades 11, 12

SEMESTER (0.5 Credit) Rank 3

Students will learn Geographic Information System (GIS) content, mapping skills, navigation and orientation skills, drone flight operation and regulations. The Federal Aviation Administration (FAA) requires applicants to be 16 years of age to earn their drone pilots license.

### **Independent Study: Preparation for the FAA Remote Pilot Certificate Exam [905 IS]**

Grades 11, 12

SEMESTER (0.5 Credit)

Students will independently prepare for the FAA's Remote Pilot Certificate Exam. This exam ensures that students (16 years of age or older) understand the regulations, operating requirements, and procedures for safely flying drones. Students enrolled in this course will need to study and prepare for the exam independently while meeting with the teacher periodically during the FLEX period. This Pass/Fail course may be taken in unison with 905 or after the successful completion of 905.

### **Small Gas Engines I [907]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course covers a basic overview of the systems and operation of a four-stroke engine. Both classroom and laboratory (shop) work are combined in this class. Students will learn the basic concepts behind the ignition, fuel, lubrication, and cooling systems of gasoline engines, and they will also learn how those systems interact to make an engine durable and dependable. The main project of the course is the complete disassembly and reassembly of a four-stroke Briggs and Stratton engine. Shop safety is emphasized.

### **Small Gas Engines II [907A]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Two stroke engine theory and overhaul will be covered, as well as advanced troubleshooting techniques in both two- and four- stroke small gasoline engines. Advanced engine theory and performance enhancement will also be touched upon in this class. Time permitting, this course may include instruction and repair/overhaul of large agricultural engines and powertrains.

**Prerequisite:** Small Gas Engines I

### **Welding I [908]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This hands-on course is designed to teach basic welding skills and how to use common welding equipment. This course includes instruction in flat and horizontal position stick and MIG welding, plasma cutter use, tool sharpening, and bench grinder use. Student skills are improved through practice and theory applications in a safe and quality conscious manner. This class prepares students for further study in welding.

### **Welding II [908A]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course includes instructions in welding processes including advanced stick and MIG welding. Also included will be instruction on advanced cutting and fabrication methods. The capstone project is the construction of an independent project that matches student skill level.

**Prerequisite:** Welding I

### Senior Agricultural Science [909]

Grade 12

SPRING SEMESTER (0.5 Credit) Rank 3

This senior level course serves as the capstone course for students who have concentrated their studies in Agricultural Science and Mechanics. Students will prepare to launch their futures in agribusiness, agriscience, and ag mechanics. They will also learn how they can serve as leaders in the agricultural community. Specific skills and content related to successful completion of the National Occupational Competency Testing Institute (NOCTI) exam will be emphasized.

**Prerequisite:** Students must have completed at least 5.0 credits (including the student's senior year) of agricultural science coursework.

### Wildlife Habitats and Management [911]

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course will focus on the major wildlife species in North America such as small and large mammals, upland game birds, waterfowl, songbirds, avian predators, shorebirds, reptiles, amphibians, and freshwater fishes. The management and habitat of these species will be investigated by conducting hands-on studies. *Note: Wildlife Habitats and Management is also listed in the Science area and may be used as a science credit.*

**This course is offered every other year and will be offered in the 2026-27 SY.**

### Forestry and Natural Resource Management [906]

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 3

Students in this course will learn about techniques and careers related to forest management. timber harvest, chainsaw safety, forest measurements, as well as wildlife studies related to forestry.

Students enrolled in this course will have the opportunity to earn their Wildland Firefighting training certification. The firefighting component consists of 2 courses sponsored by the National Wildlife Coordinating Group (NWCG); S-130 and S-190. These courses are required to pursue any jobs that deal with wildland firefighting. The wildland firefighting certification portion of this course will be conducted in partnership with a forester with the PA Department of Conservation of Natural Resources (DCNR).

### Honors Veterinary Science [912]

Grades 11, 12

YEAR (1.0 Credit) Rank 2

Students enrolled in this course will have the opportunity to investigate animal anatomy and physiology, handling and restraining, diseases and methods of control, surgical skills, examinations and treatments, laboratory techniques, and identification. Practical hands-on experience with animals will be used whenever possible in laboratory sessions. This course is not NCAA-approved. *Note: Honors Veterinary Science is also listed in the Science area and may be used as a science credit.*

**Prerequisite:** Successful completion of Foundations of Biology II or Keystone Biology Honors

### **Animal Science / Nutrition & Welfare [915A]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course allows students to explore the animal anatomy involved in these processes. Students will also have the opportunity to investigate animal rights issues. Special emphasis is given to animal safety. This course will allow students to investigate agricultural business topics such as developing their own animal feed product. Students will investigate the market for such a product and then propose a marketing and production strategy. This course is not NCAA-approved. *Note: Animal Science / Nutrition and Welfare is also listed in the Science area and may be used as a science credit.*

**This course is offered every other year and will NOT be offered in the 2026-27 SY.**

### **Greenhouse Operation and Management [917]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Students will receive instruction in basic plant growth, physiology, reproduction, nutrition, and marketing. Plant pest control and plant production will be stressed. Also, greenhouse plant production activities and the management of greenhouse structures will be covered. Students will create and implement plant production schedules while growing and marketing horticultural plants in the school greenhouse. *Note: When offered, this course runs during the Spring semester.*

**This course is offered every other year and will NOT be offered in the 2026-27 SY.**

### **Botany Honors [918A]**

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 2

This Honors level course will expose students to the thrilling world of plants. Students will work on major projects and problems similar to those faced by modern plant scientists through a variety of exciting activities and projects. Most lessons have a teamwork focus with students working on collaborative research and lab experiments. Units of study will include: Worlds of Opportunity, Mineral Soils, Soilless Systems, Anatomy and Physiology, Taxonomy, The Growing Environment, Sexual Reproduction, Asexual Reproduction, and Surviving a Harsh Environment. Based on the inquiry based instructional model STEM, this course will develop a diverse set of skills and problem-solving techniques that can be used in all areas of study. *Note: Botany Honors is also listed in the Science area and may be used as a science credit.*

### **Honors Construction Hand & Power Tools [923]**

Grades 10, 11, 12

YEAR (1.0 Credit) Rank 2

Survey of hand and power tools typically used to perform construction work. Emphasis on the development of skills needed to effectively perform layout, measurement, cutting, fastening, and finishing operations. Study also includes maintenance of tools and equipment, safe use of hand and power tools, and emerging tool technology. This course will include technical as well as practical instruction.

**This course is offered every other year and will be offered in the 2026-27 SY.**

### **Basic Wiring & Plumbing [924]**

Grades 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Students will learn and demonstrate skills in planning and installing agricultural and residential electrical and plumbing systems. Wiring to include the selection and installation of electrical wiring, switching, lighting, and receptacles. Plumbing to include supply and drainage using PVC/CPVC, Steel, Copper, and PEX where applicable. This course will include technical as well as practical instruction. *Note: When offered, this course runs during the Fall semester.*

**This course is offered every other year and will NOT be offered in the 2026-27 SY.**

### **AP Environmental Science [925]**

Grades 11, 12

YEAR (1.0 Credit) Rank 1

Advanced Placement Environmental Science is designed to be the equivalent of an introductory college course in environmental science. The course topics include Earth Systems and Resources, The Living World, Population, Land and Water Use, Energy Resources and Consumption, Pollution, and Global Change. Intensive study in these areas provides a solid foundation in preparation for the AP Environmental Science exam. This course is based upon scientific principles and analysis from a variety of scientific fields and approaches and includes a laboratory and field investigation component. *Note: AP Environmental Science is also listed in the Science area and may be used as a science credit.*

### **Supervised Agricultural Experience [928A / 928B / 928C / 928D]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) / SEMESTER (0.5 Credit) Rank 3

Students will establish and maintain a supervised agricultural experience program and submit various required records. Students must complete computerized record books from the Pennsylvania FFA, and the project must be pre-approved by an agricultural instructor. Credit will be awarded based on the scope of the individual SAE project book. This course can be taken multiple years.

### **Ag Exploration in the Real World [931A / 931B / 931C / 931D]**

Grades 9, 10, 11, 12

YEAR (1.0 Credit) Rank 3

Students meet with instructor(s) to establish and maintain an independent agricultural research, improvement, work or entrepreneurial experience program for the summer. This project must be approved by an Agricultural Education Instructor and registered with the High School Principal in June.

Students will be required to submit various required records, and credit will be awarded based on the scope of the individual project book. Students must complete computerized record books from the Pennsylvania FFA. Instructor(s) will schedule project visits throughout the summer. Student records will be due at the beginning of the school year. This course can be taken multiple years.

### **Capstone Experience: Agricultural Sciences [971]**

Grade 12

YEAR (1.0 Credit) Rank 3

The Capstone experience for the Agriculture, Animal, and Plant Sciences program (CIP 01.9999) serves as a professional extension of the classroom, allowing students to apply technical competencies across the diverse sectors of the agricultural and environmental science industries. Under a formal training plan, students engage in paid, hands-on employment in various settings, including agribusiness, technical services, resource management, or animal care, to refine skills that directly align with the program's comprehensive state task list. This work-based learning model ensures that students gain real-world proficiency in their chosen career pathway while receiving joint supervision from a certified school coordinator and an industry mentor.

### **Capstone Experience: Agricultural Mechanization [972]**

Grade 12

YEAR (1.0 Credit) Rank 3

The Capstone experience for the Agricultural Mechanization program (CIP 01.0201) serves as a professional extension of the classroom, allowing students to apply technical competencies across the diverse sectors of the mechanical, power systems, and structural technology industries. Under a formal training plan, students engage in paid, hands-on employment in various settings, including equipment dealerships, fabrication facilities, technical service centers, or industrial maintenance departments, to refine skills that directly align with the program's comprehensive state task list. This work-based learning model ensures that students gain real-world proficiency in their chosen mechanical pathway while receiving joint supervision from a certified school coordinator and an industry mentor.

# Physical Education Courses

All students must take Health [943] and Physical Education [950]/Introduction to Strength & Conditioning [950A] during their high school career. It is highly recommended that students complete these courses prior to a student's Junior year. In addition to these two courses, other PE course offerings are available and should be taken following the completion of 943 and 950/950A.

## **Health [943]**

Grades 9, 10

SEMESTER (0.5 Credit) Rank 3

This course is designed to provide students with the opportunity to examine their lifestyles, to set goals, and to learn skills for achieving and maintaining an optimal quality of health/life. It will focus on bullying prevention, physical fitness, holistic health, nutrition, reproduction, contraception, sexually-transmitted diseases, stress management, depression, suicide, and drug & alcohol education. Decision-making skills are also taught to enable the students to make informed decisions about healthy lifestyle choices. *Note: This course is required for graduation and should be taken prior to a student's Junior year.*

## **Fitness and Yoga [946A]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Students will learn the basic knowledge and skills needed to participate in beginner level yoga. Students will learn and practice basic yoga poses and learn how to move from one pose to another. Students will follow along with yoga professionals via video and will have the opportunity to create and lead their own yoga sequences. Students will also learn how to effectively warm-up for intense physical activity and participate in a variety of cardiovascular exercises. Students will learn the components of a quality warm-up and the benefits of a high functioning cardiovascular system. Students should anticipate participating in yoga on Monday, Wednesday, and Friday and a cardiovascular endurance component on Tuesday and Thursday.

## **Introduction to Strength and Conditioning [950A]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

This course will teach basic methods and training principles in cardiovascular conditioning along with the basic knowledge needed to safely use, navigate, and organize a weight room. The course will cover introductory weight lifting programs, fundamental movement patterns, and technique in major weight room movements, jumping technique, and basic plyometric programming. The anticipated course set-up will be lifting on Monday, Wednesday, and Friday with conditioning/running on Tuesday and Thursday. Students will develop the skill to design their own weight room program based on different fitness goals. *Note: This course (or 950 Physical Education) should be taken prior to a student's Junior year.*

### **Fitness, Racquet Sports, and Net Games [940A]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

Students will learn and participate in a variety of sports and activities that involve a net or a racquet. Games played will include tennis, pickleball, speedminton, badminton, Nitro Ball, and volleyball. Students will also learn how to effectively warm-up for intense physical activity and participate in a variety of cardiovascular exercises. Students will learn the components of a quality warm-up and the benefits of a high functioning cardiovascular system. Students should anticipate participating in team sports and aerobic games on Monday, Wednesday, and Friday with a cardiovascular endurance component on Tuesday and Thursday.

### **Fitness and Team Sports [964A]**

Grades 9, 10, 11, 12

SEMESTER (0.5 Credit) Rank 3

In this course, students will learn to participate in a variety of sports and activities that are team and aerobic based. Games played will be Bocce Ball, Cardio Kickball, dodgeball, floor hockey, Shawn Ball, Tchoukeball, team handball, Ultimate Frisbee, Ultimate Ball, Nitro Ball, and volleyball. Students will also learn how to effectively warm-up for intense physical activity and participate in a variety of cardiovascular exercises. Students will learn the components of a quality warm-up and the benefits of a high functioning cardiovascular system. Students should anticipate playing racquet sports on Monday, Wednesday, and Friday with conditioning/running on Tuesday and Thursday.

# Special Programs

## Study Skills [739]

Grades 9, 10, 11, 12

YEAR (1.0 Credit) / SEMESTER (0.5 Credit) Rank 3

This course is a teacher-recommended course. Study Skills is intended for students to get assistance from certified teachers to maintain the requirements of their primary classes as well as build skills in the core content areas that will assist them in those courses and in the high school. Students will have time to work with teachers to complete individual assignments, group assignments, testing, ask questions, clarify information, and develop skills for succeeding in their high school classes. During this course, students will be given the opportunity to successfully learn individually or in a small group setting with the guidance of the teacher. Individual needs will be addressed by the teacher with all students in this course.

## Cooperative Education [951]

Grade 12

YEAR (1.0 - 2.0 Credits) Rank 3

Students interested in securing a Cooperative Education placement need to complete an application packet available from the Cooperative Education supervisor. Good attendance during a student's junior year (10 days or less) and a cumulative grade point average of 80% or higher (with no single grade below 70%) are required.

Students are allowed to schedule a Cooperative Education experience up to a maximum of three class periods. Students are expected to attend on all school days and provide their own transportation. The final step in the selection process is a formal interview and selection by the participating training agency. Sophomores and juniors can participate based upon the IEP team recommendation. Unique circumstances need to be approved by the Cooperative Education supervisor and a building administrator.

**Students who enroll and are accepted into the Cooperative Education Program must also be enrolled in a year-long Diversified Occupations [599A] class.** More information about the Cooperative Education Program can be found on [page 18](#).

## Diversified Occupations [599A]

Grade 12

YEAR (1.0 Credit) Rank 3

The Apprenticeship Experience program is a one-year program. The course is designed to combine classroom instruction with on-the-job training in a career area of the student's choice. Students will obtain skills in an occupational area that is not taught at the high school and will prepare students for new and futuristic careers. This program integrates classroom studies in employability skills and consumer skills with planned, supervised, and practical work experience in a business setting. Additional topics include resume development, work ethic, and workplace safety. Students will develop personal initiative, learn to work with others, and recognize the importance of appropriate attitude and behavior for the occupation. Specific skills and content related to successful completion of the National Occupational Competency Testing Institute (NOCTI) exam will be emphasized.