

APPOQUINIMINK SCHOOL DISTRICT

HIGH SCHOOL COURSE CATALOG
Graduating Class of 2027



Our Commitment

The mission of the Appoquinimink School District is to provide a world-class education where each of our students gain the knowledge, understanding, skills and attitudes needed to contribute to and flourish in a global society. To support our mission we have designed the high school experience to prepare students for future employment, further study at the college and university level, and to be effective citizens. Our program consists of a variety of Pathways from which students choose that include a wide choice of specialty courses, core required coursework, and an array of elective offerings.

Our students are living and learning in a dynamic and exciting era. During their lifetime, they are certain to find opportunities and experiences that surpass those of previous generations. It is essential that our students not only develop knowledge and skills through content area instruction, but that they also learn to be collaborators, critical thinkers, problem solvers, communicators and use their creativity. We urge you to take full advantage of the classes and extra-curricular opportunities in the Appoquinimink School District.

Highlights

- 24 Pathways
- 29 AP courses and up to 32 Exam Opportunities
- Opportunities for Pathway Concentrations
- 16 Dual Enrollment Courses (Partnerships with post-secondary institutions)
- Early College Credits accepted as high school credit
- Robust Advisory Industry Partnerships
- Articulations with local colleges and universities for students to earn college transfer credit through the completion of Pathway courses
- AP Capstone Program with the opportunity for students to earn an AP Capstone Diploma
- Work-Based Learning Experiences for All Students
- Capstone Portfolio with embedded Capstone Project in the Senior Year

Each Pathway has required courses (depending on a student's concentration preference and choice of electives). Students are encouraged to work with their parents and counselors to select the best path to graduation, preparing them for college and careers.

Each Pathway has five core components that include:

1. Four-year, sequential courses related to the Pathway, each with rigor and relevance to degree programs using college and career standards.
2. Alignment to post-secondary institutions (preparing for college).
3. Opportunities for industry-recognized certifications and dual enrollment credits.
4. Connections to careers through internships, technical skills assessment, and off-campus experiences related to the degree program.
5. Capstone Project aligned to individual student Pathway.

The Appoquinimink School District does not discriminate on the basis of race, color, gender, religion, age, disability, marital status, national origin, or other legally protected categories in its educational programs, activities, employment, or student admissions policies or practices. Inquiries regarding compliance with the above can be directed to Section 504 Contact Dr. Ed Gurdo, Supervisor of Student Services, Appoquinimink School District, 313 South Fifth Street, PO 4010, Odessa, DE 19730, telephone (302) 376-4111. Responsibilities: To coordinate the Appoquinimink School District's efforts to comply with disability discrimination laws. Title IX Contact Dr. Ed Small, Director of Human Resources, Appoquinimink School District, 313 South Fifth Street, PO 4010, Odessa, DE 19730, telephone (302) 376-4275. Responsibilities: To coordinate the Appoquinimink School District's efforts to comply with and carry out the District's responsibilities under Title IX, including any investigation of any complaint alleging noncompliance with Title IX or alleging actions that would be prohibited by Title IX.

Credits:

Front and Back Cover Concept Designed by - Katherine Mays & Skylar Schrader
Middletown High School Digital Communication Technology Pathway Students

Schools and Pathways



SCHOOL OF AGRICULTURE AND NATURAL RESOURCES

- Animal Science & Management Pathway
- Natural Resource Management Pathway
- Plant Science Pathway



SCHOOL OF BUSINESS AND ECONOMICS

- Junior Achievement® Entrepreneurship, Business and Leadership Pathway
- Global Leadership and Human Studies Pathway



SCHOOL OF CULINARY ARTS AND HOSPITALITY

- Culinary & Hospitality Management Pathway



SCHOOL OF EDUCATION AND LEADERSHIP DEVELOPMENT

- Education and Leadership Pathway



SCHOOL OF HEALTH SCIENCES

- Healthcare Science Pathway



SCHOOL OF LANGUAGE, LITERATURE, AND HUMAN DEVELOPMENT

- Advanced Placement Pathway
- Humanities Pathway
- World Language & International Studies Pathway



SCHOOL OF MILITARY AND CIVIC LEADERSHIP

- Criminal Justice and Legal Issues Pathway
- Jobs for Delaware Graduates Pathway
- Junior Reserve Officer Training Corps Pathway
- Life-centered Career Education Pathway



SCHOOL OF PERFORMING AND DESIGN ARTS

- Digital Communication Technology Pathway
- Music Pathway
- Theatre Arts Pathway
- Visual Arts Pathway



SCHOOL OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

- Computer Science Pathway (PLTW)
- Engineering Pathway (PLTW)
- Science Pathway
- Forensics Pathway



SCHOOL OF SKILLED AND TECHNICAL TRADES

- Construction, Machinery Operator Pathway

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The Pathway Experience

PURPOSE

The purpose of our Appoquinimink Pathways is to provide students with options and opportunities to grow as learners through both experiential and academically rigorous coursework.

PATHWAYS CONSIST OF SIX CORE COMPONENTS

1. Liberal Arts Electives
2. Pathway Courses
3. Work-Based Learning
4. Capstone Project
5. Advanced Standing Courses
6. Accelerated Learning Options

1. LIBERAL ARTS ELECTIVES

- Every pathway requires as many or more electives than required Pathway courses
- A breadth of learning experiences
- A wide variety of selections based on student interest
- A unique transcript

2. PATHWAY COURSES

- Every pathway requires four primary Pathway courses.
- Aligned to industry standards
- Based on jobs in the field and college majors
- Demonstrate a connection to a particular program of study for students' future
- Concentrations

3. WORK-BASED LEARNING

- Every pathway requires Work-Based Learning experiences and credits
- Teachers and students have access to a network of
- 350+ business partners
- Advisory Boards
- Continuum of experiences in grades 6-12
- Pathway specific graduation requirements
- Workforce Readiness Curriculum
- Workforce Readiness Fair

4. CAPSTONE PROJECT

- Every pathway requires a capstone project.
- Every Pathway has an identified capstone course and/or a process for completing a capstone project
- Capstone projects are aligned to students' pathways
- Capstone projects demonstrate students' learning, reflection, research, and communication of their pathway/course

5. ADVANCED STANDING COURSES

- Every student has access to 80+ advanced standing courses.
- 24 AP courses offered in the freshman year
- Many courses with articulated agreements

6. ACCELERATED LEARNING OPTIONS:

- Summer programs
- Dual Enrollment credits
- Online "Early College" courses
- Speeding up course sequencing

The Student Experience

GRADUATION REQUIREMENTS

Incoming freshmen will select a Pathway as part of their enrollment process to Appoquinimink School District (ASD) high schools. Students are encouraged to work with their parents, teachers, and school counselors to select the Pathway that best prepares them for college and career. Student choices should be consistent with their abilities and career plans. The number of credits required for completion is dependent upon the student's Pathway and can be found within the Pathway description in the course catalog. Program specifics are located on the following pages.

High School courses taken at any middle school in the Appoquinimink School District may be awarded high school credit. Students who meet required prerequisites may earn high school credit in middle school math and world language. Middle school students taking advanced courses in American Sign Language, Spanish, and French are awarded one high school world language credit.

STUDENT SUCCESS PLAN

Each student will continue to update their Student Success Plan (SSP) in high school. The SSP shall be developed in accordance with guidelines established by the Delaware Department of Education (DE Reg 507) and the Appoquinimink School District. The components of the SSP shall include the student's program of study for high school graduation and a postsecondary career pathway based on the student's academic and career interests. In high school, a career-related learning experience shall be chosen by the student and documented in the SSP.

The plan shall be included in the student's record and shall be reviewed

and updated annually. Students should work closely with their school counselors and their families as they plan their programs and make course selections. The academic planning process involves the selection of courses, which ensures that a student is prepared for the transition from high school to further education and/or the workplace.

SCHEDULING

Students utilize the Xello platform to schedule their classes and map out potential courses of interest to take in future years.

After the start of the school year, requests for schedule changes are only considered for the following reasons:

- a. incorrect level placement
- b. opening on student schedule
- c. course not requested by student

Dropping a course may not be considered after a class has met five times during a term, regardless of student attendance during that term. The last day to make schedule changes is before the sixth class meeting.

EARNING CREDITS

The Appoquinimink School District offers eight credit hours per school year, during regular school hours. Additional credits can be earned by taking courses after school or during the summer. This gives all students 32 or more credit opportunities prior to graduation and allows students to not only complete their selected Pathway, but take additional credit hours to enhance their transcript and improve their high school experience. The schedule allows for an increased academic opportunity, a rigorous year-long learning experience, and increased instructional time. We encourage our students to maximize the number of opportunities offered at school, both academic and extra-curricular.

GPA AND WEIGHTED CREDITS

Grade Point Average (GPA) is calculated by dividing the total number of quality points by the number of credits attempted to date. Only final course and yearly cumulative GPAs appear on transcripts.

Certain courses have been approved for additional quality point weight, which is added to the grade point average of students. These courses are approved because they are academically demanding and meet the rigor and credit attainment of a post-secondary level institution. Courses identified as articulated, dual enrollment, or advanced placement qualify for weighting of one additional quality point.

Each college or university determines its own measure for acceptance into their institution. It's important to note that institutions of higher learning typically view GPAs on a 4.0 scale. Advanced Standing credit, rigorous coursework, and other factors can impact a student's transcript for admission to the institution.

APPOQUINIMINK CAPSTONE PROJECT

Each Pathway has an identified capstone course(s) that is designed to be taken in the senior year. This course ties together the key learning objectives the district expects the students to learn throughout the Pathway. During the capstone course, students will be expected to research a topic of interest within the Pathway with the support of an industry partner, and present their findings to a committee.

VALEDICTORIAN AND SALUTATORIAN

Prior to graduation, a valedictorian and a salutatorian will be selected from the graduating class. The valedictorian will be the student ranking first in the graduating class and the salutatorian will be the student ranking second in the graduating class, as determined by their cumulative weighted GPA. In the case of a tie for the valedictorian position, the students tied will share the honor and no salutatorian will be named. In the case of a tie for the salutatorian position, both students will be named salutatorian.

Any student wishing to be considered for class valedictorian or salutatorian at any district high school must:

- a. Be enrolled in the Appoquinimink School District no later than the first day of their junior year.
- b. Complete the same course requirements as all other members of the graduating class.

For the purposes of these procedures, the cumulative weighted GPA is the weighted GPA earned by a student throughout his/her entire high school career. The weighted GPA is the point value assigned to the earned grade for each course identified by the district as a weighted course. The weighted GPA is based on a 4.0.

In determining whether or not a tie exists for either position, the weighted cumulative GPA shall be calculated to one-thousandth of a point. (0.001)

GPA Scale

<i>Grade</i>	<i>Letter Grade</i>	<i>Quality Points</i>	<i>Honors QP</i>	<i>Advanced Standing QP</i>
97-100%	A+	4	4.5	5
93-96%	A	4	4.5	5
90-92%	A-	3.66	4.16	4.66
87-89%	B+	3.33	3.83	4.33
83-86%	B	3	3.5	4
80-82%	B-	2.66	3.16	3.66
77-79%	C+	2.33	2.83	3.33
73-76%	C	2	2.5	3
67-69%	D+	1.33	1.83	2.33
63-66%	D	1	1.5	2
60-62%	D-	0.66	1.16	1.66
0-59%	F	0	0	0



PATHWAYS

College and Career Readiness

WORK-BASED LEARNING (WBL)

Work-Based Learning is a set of instructional experiences that helps prepare students to become college, career, and life ready. WBL experiences are structured experiences for students to interact with employers and industry partners at school or at a worksite. WBL integrates classroom lessons and real-world experiences to help students connect their Pathway coursework, post-secondary education, workforce readiness, and future careers. All students in the Appoquinimink are required to complete a 50-hour immersion experience with an industry partner of their choice.

INDUSTRY CERTIFICATIONS

Students in specific Pathways will have the opportunity to earn state recognized industry certifications. Available credentials vary by Pathway and help students to strengthen their portfolio and give them a headstart in their career aspirations.

WORKFORCE READINESS

Students engage in curriculum over the course of their high school career. The training is delivered by teachers, industry partners, and alumni in the areas of resume building, interview skills, networking, and general workforce tips. Completion of the curriculum is a prerequisite to participation in an immersion work-based learning experience. Students attend the Workforce Readiness Fair in their Junior year of high school to better prepare them for their immersion experience.

EARLY COLLEGE CREDIT

Colleges and universities may grant college credit for certain courses taken while in high school. These agreements recognize that skills and

competencies are developed through successful completion of specific coursework. Articulated credit is awarded to students who achieve the competencies agreed to and continue in a related program of study at the partnering college/university. Benefits of articulated credit can include savings on tuition, books and fees, saving time by avoiding duplicative coursework, and providing time in the schedule for expanded program content.

Beginning in the middle school years, students are counseled on preparing for opportunities in postsecondary education and career opportunities. Students learn about the advantages of obtaining industry certifications and professional licenses in a career and technical education field prior to high school graduation. Such opportunities include access to Advanced Placement (AP) courses, dual enrollment and articulated courses resulting in advanced standing at the post-secondary level.

STUDENT SUCCESS PLANS

Students are required to complete a robust Post-Secondary Plan beginning in middle school and continuing through 12th grade. Students are afforded the opportunity to self-reflect and learn more about post-secondary opportunities, including direct employment and careers that require post-secondary education. All students in grades 6-12 are scheduled into a Compass course that includes lessons that allow for discovery of career options and goals, Social and Emotional Learning, and other various ways to help students see the connection between school, learning, personal passion, and their future careers.

COMPASS

Part of a student's academic journey includes Career-Connected Learning opportunities for students. All students are required to graduate with a credit that is earned through their Compass course. This course is offered to students weekly and is addition to the eight courses a student selects on their schedule. During this time, students explore college and career opportunities that interest them, learn financial literacy skills, work on their student success plan, complete Capstone and work-based learning requirements, and receive SEL support and assistance with academics.

The vision of Compass is to provide an inclusive environment, through career-connected middle and high schools, for ASD students to navigate their social-emotional well-being, academic journey, and college and career readiness while understanding their individual and collective value in our global community.

ADVANCED PLACEMENT & POST-SECONDARY ALIGNMENT

ACCEPTED AP CREDITS & REQUIRED SCORES FOR MOST WIDELY ATTENDED COLLEGES

AP COURSES OFFERED IN APPOQUINIMINK SCHOOL DISTRICT	Delaware State University	Delaware Tech CC	Drexel University	Howard University	Penn State University	Salisbury University	Temple University	Towson University	University of Delaware	University of Maryland ES	University of Pennsylvania	Washington College	West Chester University	West Virginia University	Widener University	Wilmington University
Art & Design	3	3	4	4	4	3	3	3	3	3	NI	4	3	3	3	3
Biology	3	3	5	4	4	3	3	3	3	3	NI	4	3	4	3	3
Calculus AB	3	3	3	4	4	4	3	3	3	3	NI	4	3	3	3	3
Calculus BC	3	3	4	4	4	4	4	3	4	3	5	4	3	4	3	3
Chemistry	3	4	4	3	5	4	4	4	4	3	5	5	NI	3	3	3
Comp Sci A	3	3	4	3	4	4	4	4	4	3	5	NI	NI	4	NI	3
Computer Science Principles	3	3	4	4	NI	4	3	3	3	3	NI	4	3	3	3	3
English Lang and Comp	3	NI	4	4	4	3	4	4	4	3	NI	3	3	4	3	3
English Literature	3	4	4	NI	3	3	3	4	3	3	NI	4	NI	3	3	3
Environmental Science	3	NI	4	3	3	3	4	3	4	3	5	4	3	3	3	3
French Language & Culture	3	NI	3	4	4	4	3	3	3	3	NI	4	3	3	3	3
Government/ Politics: US	3	NI	4	4	3	3	3	3	3	3	NI	4	NI	3	3	3
Human Geography	3	3	5	4	4	3	3	3	3	3	5	4	3	3	3	3
Macroeconomics	3	3	5	4	4	3	3	3	3	3	5	4	3	3	3	3
Microeconomics	3	NI	5	NI	3	3	4	3	4	3	5	4	3	3	3	3
Music Theory	3	3	4	4	4	4	4	3	4	3	5	4	3	4	3	3
Physics 1	3	3	4	NI	4	4	4	3	4	3	5	4	3	4	3	3
Physics 2	3	3	4	4	5	4	3	3	3	3	5	4	3	4	3	3
Psychology	3	3	4	3	4	4	3	4	3	3	5	4	3	3	3	3
Spanish Language & Culture	3	3	4	4	3	3	3	3	3	3	5	4	3	3	3	3
Statistics	3	NI	4	NI	3	3	3	4	3	3	5	4	3	3	3	3
US History	3	3	4	4	4	4	4	5	4	3	NI	4	3	3	3	3
World History	3	3	4	5	4	3	4	4	4	3	NI	4	4	3	3	3

*Colleges and universities reserve the right to change the accepted score.

All students who take an AP course are expected to take the AP Exam in May.

NI = Not Identified

AP CAPSTONE

AP Capstone is comprised of two AP courses - AP Seminar and AP Research - and is designed to complement and enhance the discipline-specific study in other AP courses. The program provides students with an opportunity to engage in challenging scholarly practice of core academic skills necessary for successful college completion. AP Research is taken during the senior year as the required English course. AP Seminar and AP Research do not transfer to college as credits.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP exams of their choosing will 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 will receive the AP Seminar and Research Certificate.

Advanced Standing Opportunities

ADVANCED PLACEMENT COURSES (AP)

Advanced Placement courses are designed to challenge students who demonstrate a consistent record of outstanding academic achievement. Rich course material, vibrant classroom discussions, and demanding assignments help these students develop content mastery and critical thinking skills expected of college students. The College Board (accredited organizer of AP curriculum and exams) audits all AP curriculum offered at the ASD high schools. The College Board also develops and scores all AP examinations for each course. In addition to content, AP courses focus on preparation for College Board AP tests. Successful completion of the course and AP exam translates into college credits for our students. Further information about College Board can be found at www.collegeboard.org. **The ASD expects all students who take AP classes to participate in the AP exams held in the spring of each year.** Scholarships to support AP exam fees are available for families with financial need.

ARTICULATED CREDIT

Colleges and universities sign agreements with the district to grant college credit for high school courses that align to college-level curriculum. These agreements recognize that skills and competencies are developed through successful completion of specific coursework. Articulated credit is awarded to students who achieve the competencies agreed to and matriculate to the partnering institution. Benefits of articulated credit can include savings on tuition, books and fees, saving time by avoiding duplicative coursework, and providing time in the schedule for

expanded program content.

DUAL ENROLLMENT

Students have the opportunity to enroll in college level courses and receive college credit. The ASD has partnered with Delaware State University, The University of Delaware, Wilmington University, Delaware Technical Community College to provide opportunities to accelerate learning. Students who successfully complete these courses earn high school and college credit which can be presented to any post-secondary institution (pending their requirements and approval). Each year, new courses are added to our list. Check with the counseling department at any time to determine the exact courses offered for dual enrollment. Students are required to cover the cost of any dual enrollment course they elect to enroll in unless it is a required course within their Pathway. Students are required to meet the entry requirements of the individual college or university.

EARLY COLLEGE ELECTIVE PACK (ECEP)

College Success Starts in High School

The Appoquinimink School District Early College Elective Pack (ECEP) offers students the opportunity to receive a minimum of 9 college credits on their college transcript to an institution of their choice. Students have the opportunity to choose between any of the approved colleges available that offer dual enrollment courses to students and complete a breadth of college elective courses before they enter their freshman year of college.

In addition to earning college credits,

the Appoquinimink School District also rewards students with a high school credit.

OPPORTUNITIES FOR ADDITIONAL CREDITS

Students are encouraged to take additional courses outside of the typical school day. The district offers courses that run in a virtual or hybrid format after school hours and during the summer. In addition, students can take dual enrollment courses with colleges and universities that can count for both a high school elective credit and college credit. Students should check with their school counselor for an updated list of courses offered by our partnering colleges and universities. Students can also seek permission to enroll in a dual enrollment course from another institution of their choice.

BENEFITS TO ADVANCED STANDING COURSES

The Appoquinimink School District encourages students to challenge themselves by scheduling courses that allow you to earn Advanced Standing credits at local universities. There are several benefits to taking Advanced Standing Courses:

- Unique transcript to help with college admissions
- Earn college credits while in high school
- Better prepared for college level coursework
- Receive bonus GPA Points - beneficial when applying for scholarships

Advanced Standing Courses

ADVANCED PLACEMENT

- AP African American Studies*
- AP Art & Design
- AP Art History
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP Chinese Language & Culture
- AP Comparative Government & Politics
- AP Computer Science A
- AP Computer Science Principles
- AP Environmental Science
- AP European History
- AP French Language & Culture
- AP Human Geography
- AP Japanese Language and Culture
- AP Language & Composition
- AP Literature & Composition
- AP Microeconomics
- AP Macroeconomics
- AP Music Theory
- AP Physics 1
- AP Physics 2
- AP Precalculus
- AP Psychology
- AP Research
- AP Spanish Language & Culture
- AP Statistics
- AP Seminar
- AP US Government & Politics
- AP US History
- AP World History

ARTICULATED CREDITS

- Advanced Machinery Operator
- Applications of Digital Design
- Applications of Entrepreneurship
- Construction Capstone
- Creating Environments for Learning
- Culinary & Hosp Professional
- Curriculum Instruction Early Childhood
- Cybersecurity
- Domestic Animal Management
- English IV - Gothic Lit
- Environmental & Natural Resource
- Essentials of Anat & Phys
- Essentials Public & Community Health
- Financial Services
- Fundamentals of Health Science
- Gene Editing
- Intro to Criminal Justice
- Intro to Machinery Operations
- Leadership & Collaboration
- Plant Systems Mgt & Sustainability
- PLTW Engineering Design & Dev
- PLTW Principles of Engineering
- Personal Wellness
- Principles of Criminology
- Principles of Curriculum and Literature
- Sociology
- Sport Management I
- Sport and Media Relations
- Technology Applications in Criminal Justice

DUAL ENROLLMENT

- DSU Linguistics
- DSU Spanish Conversation
- DSU Trigonometry
- DTCC Anatomy & Physiology
- UD Concepts of the Universe
- UD Food for Thought
- UD Geo Hazards & Human Impact
- UD Intro Hosp Bus Management
- UD Intro to Women's Studies
- UD Introduction to Astronomy
- UD Introduction to Sociology
- UD Media/Design/Culture
- UD Media & Society
- UD Visual Culture
- UD Western Civilization
- WU Music Appreciation

*Pending College Board approval

*Visit Appoccr.com for
the most up-to-date
listing of Advanced
Standing Courses*

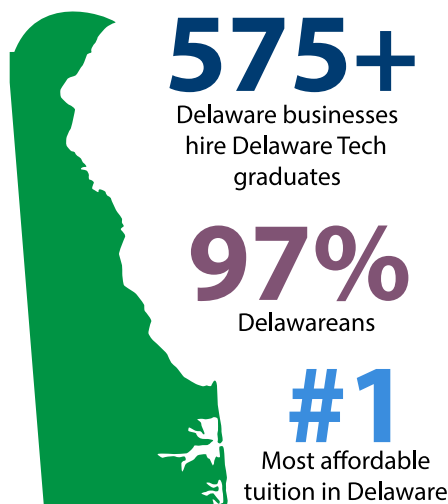


YOUR JOURNEY STARTS HERE.

A focus on hands-on learning enables Delaware Tech students to be job-ready upon graduation. And with 96% of Delaware Tech graduates securing employment or continuing their education, you can be sure that your experience will help you reach your goals. We offer support for your success, educational excellence, convenience, affordability, and flexibility.

- Dedicated instructors with experience in their field
- Small class sizes
- Educational support
- Flexible schedules
- Variety of class formats
- Affordable tuition
- Financial aid
- Scholarships
- Veteran/military support services

Your success starts here ...
and we'll be with you every step of the way.





DELAWARE
TECHNICAL  COMMUNITY
COLLEGE

dtcc.edu

UNIVERSITY OF DELAWARE DUAL ENROLLMENT

Earn college credits while still in high school



Thanks to a partnership between the University of Delaware and the Appoquinimink School District, academically qualified ASD juniors and seniors can simultaneously earn high school and college credits by taking designated UD courses.

- Learn from expert faculty at one of the nation's top research universities.
- Get a head start on college while saving time and money.
- Gain experience taking college-level courses.
- Enhance your college application.
- Take classes not offered at your school.



UNIVERSITY OF DELAWARE
**PROFESSIONAL &
CONTINUING STUDIES**

pcs.udel.edu/high-school-dual-enrollment

AVAILABLE OPPORTUNITIES



EARLY COLLEGE CREDIT PROGRAM

Experience the variety of courses UD has to offer by taking introductory classes in the arts, social sciences and sciences at no cost.

Offerings include courses such as:

- Media and Society (COMM245)
- Concepts of the Universe (PHYS144)
- Food for Thought (ANFS102)
- Media/Design/Culture (ART204)

If you are admitted to UD, your coursework can be applied toward degree requirements and decrease the time of completion and cost of a UD bachelor's degree. You can also apply UD credit toward degrees at other universities and colleges, subject to approval by the receiving institutions.

- Receive a genuine college experience in UD classes that include both UD undergraduates and high school students.
- Log in and complete coursework at a time that is convenient for you with asynchronous online courses.

pcs.udel.edu/early-college-credit-program



HOSPITALITY BUSINESS MANAGEMENT PIPELINE PROGRAM

HOSP 180—Introduction to Hospitality Business Management Online Course

UD also offers a hospitality business management program through UD's Alfred Lerner College of Business and Economics. As an introduction to Lerner College's Business and Economics Department of Hospitality and Sport Business Management, learn about one of the top 10 industries in the world and one of the top five industries in Delaware as you explore careers in tourism, hotels, restaurants, casinos, country clubs, and event and meeting management.

- Earn transferable UD credits at a significantly reduced rate of \$75 for a three-credit class.
- Gain a strong foundation on what it takes to be a professional in the hospitality industry.

lerner.udel.edu/departments/hospitality-and-sport-business-management/high-school-dual-enrollment-course

With more than 150 major fields of study, the University of Delaware offers numerous options to pursue your passion. Check out all of UD's majors at

udel.edu/apply/undergraduate-admissions/major-find



WilmU works for future Wildcats.

Attend a university **dedicated to your success** and learn what it means to be part of Wildcat Country.



200+ exciting academic programs to choose from, in-person or 100% online.

17:1

Student-to-faculty ratio

#1

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- Digital Communication Technology
- Early Childhood Teacher Academy
- Junior Achievement Entrepreneurship, Business and Leadership
- K-12 Teacher Academy
- and many more!



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ANIMAL SCIENCE & MANAGEMENT PATHWAY

PATHWAY HIGHLIGHTS:

- Four courses in Animal Science Pathway
- DE State Fair Activities
- SAE Completion
- Immersion Experience in Senior Year



FUTURE CAREERS:

- Animal Researcher
- Breed Analyst
- Horse Breeder
- Veterinarian
- Wildlife Manager
- Zoo Animal Specialist
- Animal Rescue
- Farmer

PATHWAY CREDITS:

- This pathway is a minimum of 28 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in this pathway may earn industry-recognized certification/licenses:
 - » Pesticide Applicator

SUMMARY OF PATHWAY:

The Animal Science & Management program of study is a four (4) credit Pathway that explores: animal production and management, physical restraint and handling, conducting health exams, evaluation of behavior, principles of genetics and reproduction, animal selection through evaluation, anatomy and physiology, animal nutrition, basic veterinary practices, global food systems, ethics of food animal production, and current agricultural issues in order to foster an understanding of the steps involved in producing and marketing products for consumers. Students practice decision-making and research skills through classroom instruction, laboratory activities, and practical experiences. The program prepares students for a variety of careers in: agribusiness, agriscience education, animal genetics, animal nutrition, animal reproduction, extension educator, marine biology, wildlife biology, veterinary medicine, zoology, animal researcher, animal processor, production manager, artificial insemination technician, animal breeder, veterinary assistant/technician, wildlife manager, zoo animal specialist, animal rescue/animal control officer, and agriculture producer.

COLLEGE CREDITS:

Students who complete the Animal Science Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware Tech Community College
AGS204: Animal Science

Delaware State University
AGRI 206: Introduction to Animal Science



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I → English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Students are required to take a Math course in their Senior Year.			
	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health →			
Physical Education: 1 credit	Physical Education →			
World Language: 2 credits ³	World Language I-II →		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Foundations of Animal Science	Growth and Development of Domestic Animals	Domestic Animal Management	Animal Science Capstone[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 3.5 credits minimum	Students must earn at least 3.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

ANIMAL SCIENCE & MANAGEMENT PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course

NATURAL RESOURCE MANAGEMENT PATHWAY

PATHWAY HIGHLIGHTS:

- Four courses in Natural Resource Management Pathway
- DE State Fair Activities
- SAE Completion



FUTURE CAREERS:

- Arborist
- Environmental Engineer
- Game Warden
- Resource Ecologist
- Wetland Hydrologist
- Wildlife Biologist

SUMMARY OF PATHWAY:

The Natural Resource Management program of study is a Pathway designed to provide students with exposure to topics in conservation management and maintenance of natural resources. Students learn responsible stewardship practices of air, soil, water, land, fish, and wildlife resources for economic, recreation, and health purposes. Students utilize a variety of classroom and laboratory activities supplemented through supervised agricultural experiences and leadership programs and activities. Students participating in this program will be prepared to enter into career fields that focus on one or more of the following areas: Natural Science, Microbiology, Water Resource Management, Wastewater Engineering, Environmental Protection, Soil & Plant Science, Environmental Engineering, Geoscience, and Precision Agriculture.

PATHWAY CREDITS:

- This pathway is a minimum of 28 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in this pathway may earn industry-recognized certification/licenses:
 - » Pesticide Applicator

COLLEGE CREDITS:

Students who complete the Natural Resource Management Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware Tech Community College

SCI223: Applied Ecology

ENV 190: Intro Environmental Science and Technology

Delaware State University

NTRS 103: Introduction to Environmental Science



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-9 Opportunities: English I	English I English II	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially	Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹ Pre-9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Calculus	AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³ Pre-9 Opportunities: Span	World Language I-II		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Introduction to Natural Resources	Principles of Environmental Science	Environmental & Natural Resource Stewardship	Natural Resource Management Capstone[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 3.5 credits minimum	Students must earn at least 3.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



PLANT SCIENCE PATHWAY

PATHWAY HIGHLIGHTS:

- Four courses in Plant Science Pathway
- DE State Fair Activities
- SAE Completion



FUTURE CAREERS:

- Botanist
- Greenhouse Production Manager
- Floral Designer
- Plant Pathologist
- Horticultural Sales Representative
- Landscape Architect
- Crop Advisor
- Athletic Turf Manager

PATHWAY CREDITS:

- This pathway is a minimum of 28 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in this pathway may earn industry-recognized certification/licenses:
 - » Pesticide Applicator



SUMMARY OF PATHWAY:

The Plant and Horticultural Sciences Pathway is a four (4) credit Pathway that encourages students to engage directly in the production of plants while developing an understanding of processes which are vital to life on Earth. Areas of focus include plant anatomy & physiology, plant propagation, integrated pest management, floral and landscape design, and greenhouse marketing and management. Students interested in Plant & Horticultural Science are typically drawn to natural settings and environments, enjoy hands on learning experiences, and are interested in science and design. Throughout the pathway, students are able to engage in real-world learning including a year-round greenhouse production program, floral design shop, as well as landscape and turf management opportunities. Internships, externships, and job shadowing are also available for students in their final year of study to enhance their learning opportunities and career/college readiness. Additionally, the development of leadership skills, responsibility, and cooperation needed to be a successful and productive citizen will be achieved through FFA Activities, Supervised Agricultural Experience Programs, and Career Development Events, following the school based agricultural education 3-component model.

COLLEGE CREDITS:

Students who complete the Plant Science Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware Tech Community College
 ADS105: Principles of Plant Growth
Delaware State University
 AGRI219: General Horticulture

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	English I English II	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially	Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II			ASD Recommends III-IV
Pathway Requirement: 4 credits minimum	Foundations of Plant Science	Plant and Soil Systems	Plant Systems Management & Sustainability	Plant Science Capstone[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 3.5 credits minimum	Students must earn at least 3.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

PLANT SCIENCE PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



GLOBAL LEADERSHIP & HUMAN STUDIES PATHWAY

PATHWAY HIGHLIGHTS:

- Advanced Standing Coursework
- Internship
- Leadership Skills



FUTURE CAREERS:

- Banking
- Actuary
- Transportation
- Finance
- Urban Planning
- Psychology
- Education
- International Development
- Non-Profit Sector
- Federal Government
- Economist

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.

SUMMARY OF PATHWAY:

The Global Leadership and Human Studies pathway is designed to prepare students for leadership roles in private and public sectors both domestically and internationally. Students will gain a strong understanding of the complex interdependent global systems in which our economy and society exist while also studying the behaviors of individuals in those systems. Graduates will be equipped to succeed in a wide variety of college majors and careers. Furthermore, the course alignment in this pathway allows students an opportunity to earn either the AP Capstone Diploma or the AP Seminar and Research Certificate. AP Capstone Awards are included on AP score reports sent to colleges.

COLLEGE CREDITS

Students who complete the Culinary & Hospitality Management Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Wilmington University
Soc 101: Sociology

AP Credits

Students are encouraged to take the AP Exam and apply the AP credit at participating institutions. See page 7 for examples.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
	English I English II			
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Students are required to take a Math course in their Senior Year.			
	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications		Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP US Government & Politics	Choose one: US History AP US History	Choose two: African American History World History⁵ AP World History⁵ AP African American Studies AP Government & Politics AP European History
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II		ASD Recommends III-IV	
Pathway Requirement: 5 credits minimum	AP Psychology AP Seminar	Choose two: AP Microeconomics AP Macroeconomics Sociology		AP Research[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 4.5 credits minimum	Students must earn at least 4.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is an Advanced Standing course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



JUNIOR ACHIEVEMENT® ENTREPRENEURSHIP, BUSINESS, & LEADERSHIP PATHWAY

PATHWAY HIGHLIGHTS:

- Sport Management Concentration
- Internship (school approved)
- School-based job: School Store or School Bank (in-school)



FUTURE CAREERS:

- Budget Analyst
- Business Consultant
- Certified Public Accountant
- Financial Analyst
- HR Manager
- Insurance Agent
- Loan Officer
- Mortgage Broker
- Operations Manager
- Personal Finance Advisor
- Retail/Sales Manager

PATHWAY CREDITS:

- This pathway is a minimum of 29 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in this pathway may earn industry-recognized certification/licenses:
 - » JA Financial Literacy
 - » JA Entrepreneurship
 - » JA Work & Career Readiness

SUMMARY OF PATHWAY:

The Junior Achievement® Entrepreneurship, Business & Leadership program of study is structured to pair thematic learning experiences inside the classroom with real-life projects and applications at local business partner locations and job sites, ultimately preparing young people for the career opportunities that lay ahead of them. Students will learn the basics of starting a business, developing entrepreneurial abilities, identifying business opportunities, learning personal finance skills, practicing business communication/writing, creating a business plan, marketing techniques, network building, economics, banking for individuals and businesses and the stages of business growth. Throughout each level and woven into the curriculum experience, volunteer business partners will visit/beam-in virtually to support the educational experience by helping students showcase entrepreneurial, workplace and finance competencies and skills. Business partners will engage with students via: inspirational events, in-person/virtual simulations, classroom-based experiences, mentoring, job shadows, internships, part-time jobs and much more!



PATHWAY CONCENTRATION

1. Sport Management
2. Sport and Media Relations

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
	English I English II			
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Students are required to take a Math course in their Senior Year.			
	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications		Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP US Gov't & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies AP US Gov't & Politics AP Comparative Gov't & Pol
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Foundations of Finance	Essentials of Business and Technology	Applications of Entrepreneurship	Entrepreneurship, Business & Leadership Capstone[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 4.5 credits minimum	Students must earn at least 4.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

JUNIOR ACHIEVEMENT® PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



CULINARY & HOSPITALITY MANAGEMENT PATHWAY

PATHWAY HIGHLIGHTS:

- Fundamentals of Culinary Arts and Hospitality Management
- Advanced Food Production Hospitality Management
- The Culinary & Hospitality Profession
- Culinary Arts Practicum



FUTURE CAREERS:

- Dietitian
- Event Manager
- Executive Chef
- Sous Chef
- Food Service Manager
- Kitchen Manager
- Line Cook
- Research & Development Chef
- Nutritionist

PATHWAY CREDITS:

- This pathway is a minimum of 28 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in this pathway may earn industry-recognized certification/licenses:
 - » National Restaurant Association Certificate of Achievement
 - » ServSafe Manager Certification

SUMMARY OF PATHWAY:

The Culinary and Hospitality Management Pathway is supported by the National Restaurant Association Education Foundation. Students explore management and culinary skills needed for success in the restaurant/hospitality industry. ProStart trains students on industry-specific skills that can be used in all aspects of the restaurant and hospitality industry along with employability skills like leadership, accountability, teamwork, and responsibility. The program prepares students for careers such as Executive Chef and Sous Chef, Food Service Manager, Kitchen Manager, and Line Cook. This Pathway consists of four (4) courses: Fundamentals of Culinary Arts and Hospitality, Advanced Food Production and Hospitality Management, and the Culinary and Hospitality Profession and the Culinary Arts Capstone.

COLLEGE CREDITS:

Students who complete the Culinary & Hospitality Management Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware Tech Community College
 HRI 101: Intro to Hospitality
 CUL 119: Food Safety & Sanitation
 FSY 110: Food Safety & Sanitation

Delaware State University
 HTM 100: Intro to Hospitality
 HTM 207: Food Safety & Sanitation



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	English I English II	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially	Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II			ASD Recommends III-IV
Pathway Requirement: 4 credits minimum	Fundamentals of Culinary Arts & Hospitality Mgmt.	Advanced Food Production & Hospitality Mgmt.	The Culinary & Hospitality Profession	Culinary Arts Capstone[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 3.5 credits minimum	Students must earn at least 3.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



EDUCATION AND LEADERSHIP PATHWAY

PATHWAY HIGHLIGHTS:

- 19 Credits for PRAXIS Exam
- 15 Pathway Credits
- Early Childhood and K-12 Teacher
- Careers in field of Education



FUTURE CAREERS:

- Elementary Teacher
- Secondary Teacher
- Paraprofessional
- Special Education Teacher
- Curriculum Director
- Superintendent
- Principal
- Athletic Director
- Educational Diagnostician

PATHWAY CREDITS:

- This pathway is a minimum of 29 credits.
- Students in this pathway are required to take a dual enrollment course. Successful completion will result in 3 college credits.
- Students in this pathway may earn the following industry-recognized certification/licenses:
 - » ParaPro
 - » PRAXIS



SUMMARY OF PATHWAY:

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

COLLEGE CREDITS:

Students who complete the K-12 Teacher Academy Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware State University

Check www.appoccr.com for updates

Delaware Tech Community College

Check www.appoccr.com for updates

Wilmington University

- ECE 214: Creating Environments for Learning
- RDG 203: Learner Dev & Early Literacy
- RDG 302: Learner Development & Early Literacy
- PSY 101: Introduction to Psychology
- EDU 204: Leadership and Collaboration
- *Up to 19 additional credits for successful completion of the PRAXIS exam

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
	English I English II			
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Students are required to take a Math course in their Senior Year.			
	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Creating Environments for Learning	AP Psychology	Principles of Curriculum and Literature	Leadership and Collaboration[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 4.5 credits minimum	Students must earn at least 4.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



HEALTHCARE SCIENCE PATHWAY

PATHWAY HIGHLIGHTS:

- Fundamentals of Health Science
- Essentials of Health Careers
- Anatomy and Physiology (Dual Enrollment)
- Early Career Experience



FUTURE CAREERS:

- Respiratory Therapist
- Registered Nurse
- Dentist
- Doctor
- Medical Lab Technician
- Occupational Therapist
- Radiologist
- Surgical Technologist

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in this pathway are required to complete service hours in medical facilities.
- Students in this pathway may earn the following industry-recognized certification/licenses:
 - » NCHSE Health Science Assessment Certification
 - » CPR Certification



SUMMARY OF PATHWAY:

The Healthcare Science Pathway is four (4) course instructional program of study that engages students in open-ended problem solving where they study topics such as medical terminology and human anatomy and physiology. Through exploration of the National Health Science Standards, students will acquire important skills necessary for healthcare professionals such as medical mathematics, communication, safety practices, legal responsibilities, and teamwork. In addition, students will develop technical skills such as performing a wound culture, measuring vital signs, collecting a throat culture and performing a strep test. The program prepares students for a variety of careers in healthcare such as respiratory therapist, nurse, physical therapist, dental hygienist, and medical lab technician.

COLLEGE CREDITS:

Students who complete the Allied Health Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware Tech Community College
 BIO 100: Medical Terminology
 BIO 110: Essentials of Anatomy & Physiology
 BIO 120: Anatomy and Physiology

PATHWAY CONCENTRATION

1. *Essentials of Public & Community Health*
2. *Personal Wellness*

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	English I English II	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially	Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 4 credits	Biology I	Chemistry I	Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth and Space Science I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health	→		
Physical Education: 1 credit	Physical Education	→		
World Language: 2 credits ³	World Language I-II	→	ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Intro to Health Careers	Fundamentals of Health Science	Essentials of Health Careers	Choose one: Essentials of Anatomy and Physiology Anatomy and Physiology^{4†}
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 4.5 credits minimum	Students must earn at least 4.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

HEALTHCARE SCIENCE PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



ADVANCED PLACEMENT PATHWAY

PATHWAY HIGHLIGHTS:

- AP Seminar
- AP Research
- AP Biology
- AP Microeconomics
- AP US History
- AP World History
- AP Language and Composition or AP Literature and Composition
- AP Statistics, AP Calculus AB or AP Calculus BC
- Students complete a minimum of 6 AP courses



SUMMARY OF PATHWAY:

The Advanced Placement program of study is an instructional program that engages students in advanced rigorous study in each of the core content areas as well as providing opportunities for students to enroll in elective AP courses. In this Pathway, students can explore a variety of areas of advanced study that fit their interests, ranging from AP Psychology to AP Music Theory or Art Studio to AP French. In 12th grade, students will learn critical independent research and evaluation skills and apply them to a self-selected topic, working collaboratively throughout the course to refine their thinking about the topic. This Pathway prepares students for coursework and success in higher education.

Students in this Pathway are required to take AP level courses for each course throughout the Pathway.

PATHWAY CREDITS:

- This pathway is a minimum of 33 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in the AP Pathway are encouraged to concentrate in a subject or take as many AP courses as possible to prepare for college.

COLLEGE CREDITS:

Students can earn college credit through successful completion of an AP Course when also achieving a qualifying AP exam score. See page 3 for details



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I → English II		Choose one: AP Language and Composition AP Literature and Composition	AP Research
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Students are required to take a Math course in their Senior Year.			
	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	
Science: 4 credits	Biology I	Chemistry I	Choose two: Anatomy and Physiology I and/or II → Biology II Chemistry I and/or II Earth and Space Science I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health →			
Physical Education: 1 credit	Physical Education →			
World Language: 4 credits ³	World Language I-IV →			
Pathway Requirement: 4 credits minimum	AP Seminar	Choose three: AP Calculus BC AP Computer Science AP Gov't and Politics AP Music Theory AP Studio Art	AP Computer Science A AP World Language AP Macroeconomics AP Psychology See Page 3 for Complete Listing	
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 7.5 credits minimum	Students must earn at least 7.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



HUMANITIES PATHWAY

PATHWAY HIGHLIGHTS:

- Additional ELA Course
- Additional Social Studies Course
- Courses from Visual/Performing Arts



FUTURE CAREERS:

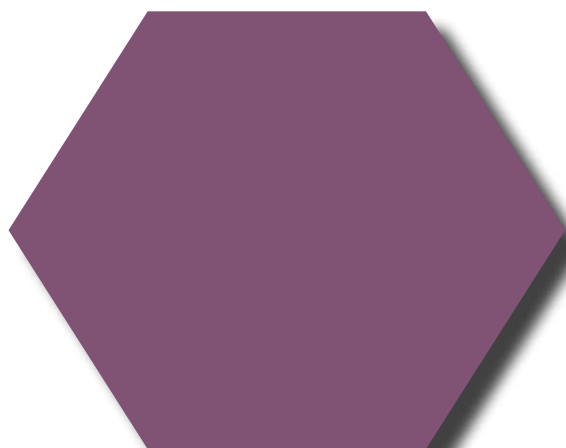
- Artist
- Corporate Communications
- Educator
- Foreign Correspondent
- Museum Curator
- ELA Coordinator
- Public Relations
- Legal Services
- Media & Communication
- Technical Writer

SUMMARY OF PATHWAY:

The Humanities Pathway allows students to focus deeply on a range of courses directly related to English & Social Studies. The study of humanities provides students with historical perspective and cultural awareness which gives them the ability to critically evaluate, analyze and interpret ideas and actions. The aim is for students to develop knowledge, skills and values that will enable them to participate as ethical, active, and informed citizens in a democratic society within both the local and global community. Humanities students make connections amongst all disciplines and reflect critically on those connections. Successful completion of this Pathway requires that students engage in either AP courses or College level experiences in each targeted area.

PATHWAY CREDITS:

- This pathway is a minimum of 29 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	English I English II	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially	Choose two: English III English IV British Literatur English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth and Space Science I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II			ASD Recommends III-IV
Pathway Requirement: 4 credits minimum	Choose any combination of four additional ELA or Social Studies courses.			
Work-Based Learning: 1 credit	Work-Based Learning Practicum			
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion			
Elective: 4.5 credits minimum	Students must earn at least 4.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

HUMANITIES PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



WORLD LANGUAGE AND INTERNATIONAL STUDIES PATHWAY

PATHWAY HIGHLIGHTS:

- World Language I-IV
- Multilingual
- Career Capstone



FUTURE CAREERS:

- Teacher/Associate Professor/Professor
- Public Service
- Interpreting and Translation
- Homeland Security
- Diplomat
- Airline Services
- Hotel/Restaurant Management
- Event Planning
- International Business Affairs
- Foreign Civil Service

SUMMARY OF PATHWAY:

The World Language and International Studies Pathway develops cultural competence and proficiency in one of our language course offerings. Students will gain greater appreciation of their first language and will learn to apply the target language skills of reading, writing, listening, and speaking through coursework and experiences. This Pathway culminates in a capstone experience requiring students to demonstrate use of the target language in a variety of settings. Students will be eligible to earn the state's Certificate of Multiliteracy (Gold and Diamond levels), which was established to honor and recognize DE high school students who have attained high levels of proficiency in one or more world languages in addition to English.

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.

COLLEGE CREDITS:

Students who complete the World Language and International Studies Pathway may receive the following credits upon enrollment into that institution of higher learning:

Delaware State University
Span 222: Spanish Conversation



Certificate of Multiliteracy

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Students are required to take a Math course in their Senior Year.			
	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth and Space Science I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: African American History AP Psychology Sociology World History⁵ AP World History⁵
Health: 0.5 credit	Health	→		
Physical Education: 1 credit	Physical Education		→	
World Language: 2 credits ³	World Language I-II		→	
Pathway Requirement: 4 credits minimum	Choose 4 additional World Language Courses			
Work-Based Learning: 1 credit	Work-Based Learning Practicum			
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.
² U.S. History **OR** AP US History must be taken in Grade 11.
³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.
⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.
 Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



CRIMINAL JUSTICE AND LEGAL ISSUES PATHWAY

PATHWAY HIGHLIGHTS:

- Criminal Justice
- AP Government and Politics
- American Politics
- African American History
- Sociology



FUTURE CAREERS:

- Correctional Officer
- Attorney
- Politician
- Law Enforcement Officer
- Lobbyist
- Public Policy
- Human Resources
- Homeland Security
- Government & Public Policy
- Paralegal

SUMMARY OF PATHWAY:

The Criminal Justice and Legal Issues Pathway is a four (4) course program of study is structured around a core of criminal justice courses on such topics as law enforcement, the judicial process, corrections, and the criminal law. Since any criminal justice system does not exist in isolation but naturally reflects the structure, ideas, and concerns of the society in which it operates, the Criminal Justice Program draws from a wide variety of academic disciplines – political science, psychology, history, and sociology.

PATHWAY CREDITS:

- This pathway is a minimum of 31 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in this pathway may earn the following industry-recognized certification/licenses:
 - » Community Emergency Response Team (CERT)
 - » CERT and the Incident Command System (ICS)
 - » Introduction to Community Emergency Response Team



COLLEGE CREDITS:

Students who complete the Criminal Justice and Legal Issues Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

AP Psychology

Wilmington University

- CRJ 101: Survey of Criminal Justice
- CRJ 205: Principles of Criminology
- CRJ 350: Technology Applications in Criminal Justice

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I → English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics	→	Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: African American History AP Psychology Sociology World History⁵ AP World History⁵
Health: 0.5 credit	Health →			
Physical Education: 1 credit	Physical Education →			
World Language: 2 credits ³	World Language I-II →		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Intro to Criminal Justice	Principles of Criminology	Choose one: AP Psychology (ASD Recommends) Sociology AP Govt. & Politics	Technology Applications in Criminal Justice[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 3.5 credits minimum	Students must earn at least 3.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



JOBS FOR DELAWARE GRADUATES PATHWAY

PATHWAY HIGHLIGHTS:

- Job Shadowing
- Internship Opportunities
- Guest Speakers
- College/Job Search Assistance
- Membership in Delaware Career Association



FOCUS OF PATHWAY:

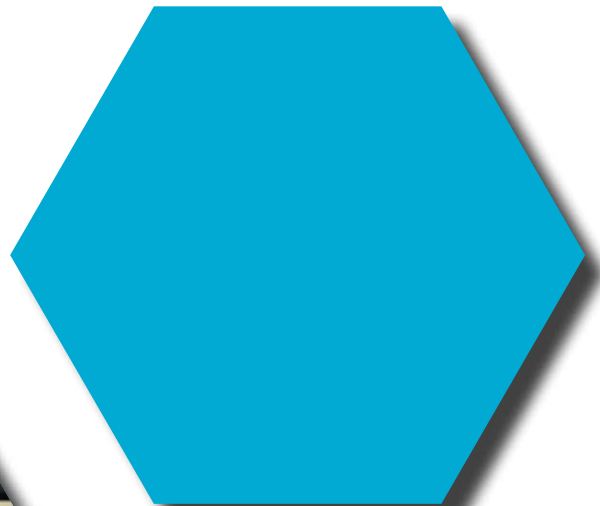
- Entrepreneurship
- Career Exploration
- Financial Planning
- Communication
- Teamwork
- Critical Thinking
- Emotional Intelligence

SUMMARY OF PATHWAY:

Jobs for Delaware Graduates (JDG) offers four (4) levels of instruction that prepare students for success in the workplace, at skilled and technical trade programs, or at college. The curriculum includes nine school-to-work modules that focus on a variety of topics including job exploration, entrepreneurship, financial planning, interpersonal skills such as teamwork and communication, and soft skills such as critical thinking and emotional intelligence. Students participate in community service events throughout the year and eligible seniors have the opportunity for an internship placement. The JDG Teacher is available to assist JDG students in finding jobs in the career of their choice during the school year, in the summer, and for 12 months following graduation.

PATHWAY CREDITS:

- This pathway is a minimum of 28 credits.
- Participants in this Pathway are eligible for membership in the Delaware Career Association, a youth organization that enhances classroom instruction with field trips, group activities, and conferences.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	English I English II	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially	Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics	→	Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health	→		
Physical Education: 1 credit	Physical Education	→		
World Language: 2 credits ³	World Language I-II	→	ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	JDG I	JDG II	JDG III	JDG IV[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 4.5 credits minimum	Students must earn at least 4.5 additional elective credits to complete this Pathway, one of which must be Science or Social Studies. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

[†] = Capstone course



JUNIOR RESERVE OFFICER TRAINING CORPS PATHWAY

PATHWAY HIGHLIGHTS:

- Aerospace Science I-IV (MHS)
- Military Science I-IV (AHS)
- Naval Science (OHS)



FUTURE CAREERS:

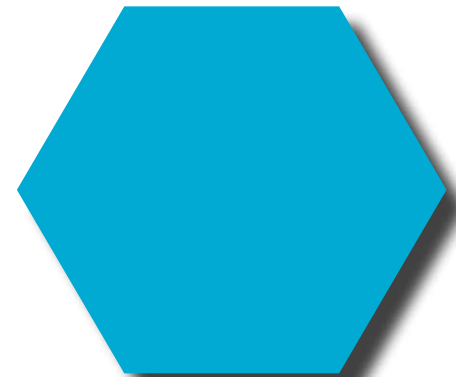
- Border Patrol Officer
- Customs Officer
- Law Enforcement Official
- Military Officer
- Service in a branch of the military: Army, Navy, Air Force, Marines, or Coast Guard

SUMMARY OF PATHWAY:

The Junior ROTC Corps Pathway is designed to prepare high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. The curriculum will include strategies to help students improve communication skills, enhance social and ethical values, promote character development and physical fitness, and help develop an appreciation of teamwork through instruction in drill and ceremonies. The course prepares students for ROTC in college or military/civilian service.

PATHWAY CREDITS:

- This pathway is a minimum of 29 credits.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate. Courses are required to be taken sequentially. English I English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Students are required to take a Math course in their Senior Year.			
	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications		Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 4 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Aerospace Science I Military Science I	Aerospace Science II Military Science II	Aerospace Science III Military Science III	Aerospace Science IV[†] Military Science IV[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 3.5 credits minimum	Students must earn at least 3.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

[†] = Capstone course



LIFE-CENTERED CAREER EDUCATION PATHWAY

PATHWAY HIGHLIGHTS:

- Independent Living Studies
- Integrated Consumers Math
- English
- Physical Education/Adapted PE
- Health
- Vocational Studies
- Work Studies
- Co-operative Work Studies



CAREER POSSIBILITIES:

- Retail Industry
- Clerical Services
- Food Service Industry
- Custodial Services

PATHWAY PARTNERSHIPS:

- Students in this Pathway receive pre-employment training and have access to the services provided by the Division of Vocational Rehabilitation and the Division of Developmental Disabilities Services, as applicable.
- Students in this Pathway may be eligible for the ASD 18-22 LIFE Program, or the Career and Life Studies Certificate Program at the University of Delaware

SUMMARY OF PATHWAY:

This Pathway is for students earning a Diploma of Alternative Achievement Standards with a focus on career readiness and post-secondary outcomes. A Diploma of Alternative Achievement Standards is awarded to those students with Individualized Education Plans who are taught a non-accredited, modified curriculum and take the Alternate State Assessment. The goal of the Life-centered Career Education Pathway is to prepare students for independent living, competitive employment, or other post-secondary school programs while also focusing on math and English at a functional level. Academic courses will use the high school level Dynamic Learning Maps (DLM) of the Delaware Content Standards.

PATHWAY CREDITS:

- Students in this Pathway still receive a Diploma of Alternative Achievement Standards



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 9-12	Take all: English DLM I → English DLM II → English DLM I → English DLM II →			
Mathematics: 9-12	Integrated Consumers Math I	Integrated Consumers Math II	Integrated Consumers Math III	Integrated Consumers Math IV
Independent Living Studies:	Independent Living Studies I	Independent Living Studies II	Independent Living Studies III	Independent Living Studies IV
Vocational Studies:	Vocational Studies I	Vocational Studies II	Vocational Studies III	Vocational Studies IV
Physical Education:	Physical Education/ Adapted PE	Physical Education/ Adapted PE	Physical Education/ Adapted PE	
Work Studies:	Work Studies I	Work Studies II	Work Studies III	Work Studies IV
Co-operative Work Studies:			Co-operative Work Studies	Co-operative Work Studies
Electives:	Transition Elective Choice	Transition Elective Choice	Transition Elective Choice	Transition Elective Choice





DIGITAL COMMUNICATIONS TECHNOLOGY PATHWAY

PATHWAY HIGHLIGHTS:

- Sport Management Concentration
- Digital Communication Practicum Experience



FUTURE CAREERS:

- User Experience Designer
- Visual Designer
- Digital Strategist
- Marcom Manager
- Web Designer
- Public Relations
- Content Development and Marketing
- Interactive Design and Production

PATHWAY CREDITS:

- This pathway is a minimum of 29 credits.

PATHWAY CONCENTRATION

1. Sport Management
2. Sport and Media Relations



SUMMARY OF PATHWAY:

The Digital Communication Technology (DCT) program of study is a four (4) course instructional program of study that engages students to apply the skills and tools of digital designers through coursework that focuses on the creative and technical skills as used in graphic design; pixel-based imagery manipulation; basics of HTML coding; digital video production; vector image manipulation; digital illustration; and digital publishing. Students utilize strategies to solve open-ended problems while they learn how to apply technical skills, creative skills, industry knowledge, documentation techniques, and processes using modern, industry-leading technology and software. Client based learning experiences and industry-mentored projects will introduce students to a wide array of related careers in public relations, marketing, web and digital communications and printing.

COLLEGE CREDITS:

Students who complete the Digital Communication Technology Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware Technical Community College
VSC 115: Introduction to Design

Wilmington University
CTA 210: Intro to Technology
DSN 105: Visual Communications
DSN 210: Basic Photoshop
DSN 220: Concept Design
VFP 100: Camera & Cinematography or
GMD 105: Video & Audio for Game Design
VFP 203 Intro to Non-Linear Editing or
GMD 202: Soundtracks for Film, Video or games

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Foundations of Digital Design	Processes of Digital Design Production	Applications of Digital Design	Digital Communication Capstone[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional elective credits to complete this Pathway, one of which must be Science or Social Studies. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

† = Capstone course

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.



MUSIC PATHWAY

PATHWAY HIGHLIGHTS:

- Orchestra
- Percussion Ensemble
- Symphonic Band
- Choir



FUTURE CAREERS:

- Accompanist
- Audio Engineer
- Broadcast Engineer
- Chamber Musician
- Composer
- Music Teacher
- Instrumentalist
- Conductor

SUMMARY OF PATHWAY:

The Music Pathway is a comprehensive course of study which prepares students with the skills necessary to be successful when advancing to study music at the collegiate level. Throughout their course of study, students will learn advanced skills specific to their instrument or voice by participating in our award winning performance ensembles which include: Symphonic Band, Marching Band, Philharmonic Orchestra, Advanced Choir, Treble Choir, and Percussion Ensemble. Students in these ensembles will have opportunities to apply the skills honed in these courses by participating in various extensions of the traditional classroom. This includes working with university professors, clinicians and professionals in the field of music, as well as competing in festivals and competitions at the state and national level. Along with their ensemble classes, music Pathway students will participate in other music courses to enhance their level of musicianship. These courses include Piano, Guitar, Music Appreciation, Music Theory, Musical Theatre and Music Technology which range from Introductory Level to Advanced Placement to Dual Enrollment courses. Additionally, students may participate in extra-curricular activities such as All-State Music ensembles, Indoor percussion, Color guard, and Musical theatre productions.

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- Students are required to participate in a performance group.
- An expectation for this Pathway is that students sit for the AP exam in any AP course taken.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I → English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics	→	Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health →			
Physical Education: 1 credit	Physical Education →			
World Language: 2 credits ³	World Language I-II →		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Choose one: Band Chorus Marching Band Orchestra Percussion Ensemble	Choose one: Band Chorus/Advanced Chorus Marching Band Orchestra Percussion Ensemble	Choose one: Band Chorus/Advanced Chorus Marching Band Orchestra Percussion Ensemble	Choose one: Band Chorus/Advanced Chorus Marching Band Orchestra Percussion Ensemble ASD Recommends: AP Music Theory[†] Music Appreciation[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional elective credits to complete this Pathway, one of which must be Science or Social Studies. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

MUSIC PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



THEATRE ARTS PATHWAY

PATHWAY HIGHLIGHTS:

- Students choose one area of focus:
- Fundamentals of Acting
 - Stagecraft
 - Musical Theatre Performance/
Theatre Dance



FUTURE CAREERS:

- Costume Designer
- Actor
- Property Designer
- Sound Designer
- Stage Director
- Stylist
- Theatre Manager
- Visual Effects Specialist
- Playwright
- Set Designer

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- Students in this Pathway must participate in at least two performances within the school.

SUMMARY OF PATHWAY:

The Theatre Arts Pathway provides the opportunity to grow from a basic understanding of theatrical performance and production to the creation of theatrical works through analysis, synthesis, and observation. Students in acting classes will participate in dramatic activities and exercises aimed at teaching young actors how the body and voice play a role in the creation of a character.

Through this study, students delve into script analysis as a means to understand and convey the playwright's intentions. Students will study and perform scenes and monologues from classic and contemporary plays. Technical Theatre students will focus on theatrical design and construction.

Time requirements beyond the daily class period in the form of additional performance, workshop or technical lab time may be required and varies by class and level. For example, all students may be required to participate in a public performance for each theatre course in which they enroll.

Students in Theatre courses should speak with the instructor for further details about dates, times, and course requirements.

Students wishing to further their theatrical experience, have the opportunity to audition for an extracurricular Fall play or Spring musical production, or participate as a member of the Stage Crew. Extracurricular productions are open to all students and participation in a Theatre Course does not ensure that students will be cast in the extracurricular production.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Students are required to take a Math course in their Senior Year.			
	Required Sequentially: Algebra I Geometry Algebra II	Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications		Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II		ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Choose one: Stagecraft 1 Fundamentals of Acting I	Choose one: Stagecraft II Fundamentals of Acting II	Choose one: Stagecraft III Fundamentals of Acting III	Choose one: Stagecraft IV[†] Fundamentals of Acting IV[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional elective credits to complete this Pathway, one of which must be Science or Social Studies and one of which must be: Foundations of Art Chorus Musical Theatre Arts Music Theory (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

THEATRE ARTS PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



VISUAL ARTS PATHWAY

PATHWAY HIGHLIGHTS:

- Foundations of Art
- Drawing and Painting
- Ceramics and Sculpture



FUTURE CAREERS:

- Art Preservationist
- Curator
- Artist
- Exhibition Designer
- Industrial Designer
- Landscape Architect
- Product Designer
- Sculptor

SUMMARY OF PATHWAY:

The Visual Arts Pathway is designed to help students focus on the necessary skills needed to create art for aesthetic and commercial purposes.

This program not only exposes students to the development of beautiful artwork, but also fosters a lifelong appreciation for visual artistry.

Advanced students curate their own art show, including not only creating works of art, but also taking leadership roles to plan the logistics of the show, raise funds, and engage the larger community in appreciating student created work.

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- An expectation for this Pathway is that students sit for the AP exam in any AP course taken.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I English II	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Students are required to take a Math course in their Senior Year. Choose additional courses: Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics	Choose one: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II			ASD Recommends III-IV
Pathway Requirement: 4 credits minimum	Foundations of Art	Must choose three: Ceramics & Sculpture I-II Drawing & Painting I-II AP Art and Design AP Art History		
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional elective credits to complete this Pathway, one of which must be Science or Social Studies. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

VISUAL ARTS PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



COMPUTER SCIENCE PATHWAY (PLTW)

PATHWAY HIGHLIGHTS:

- Computer Science Essentials
- AP Computer Science Principles (CSP)
- AP Computer Science A (CSA)
- Cybersecurity



FUTURE CAREERS:

- Applications Analyst
- Business Analyst
- Computer Engineer
- Data Modeler
- Information Technology Manager
- Software Applications Architect
- Software Engineer

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students are expected to participate in a work-based learning experience during their junior and/or senior year.



SUMMARY OF PATHWAY:

The Project Lead the Way (PLTW) Computer Science program of study is an instructional program that engages students in open-ended problem solving where students study computational practices such as algorithm development, problem solving, and programming within the context of problems relevant to their everyday lives. They are also introduced to topics such as interface design, limitations of computers, and societal and ethical issues. The program prepares students for further education and careers in information technology and computer science.

COLLEGE CREDITS:

Students who complete the Computer Science Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware Tech Community College
 ITN 101: Intro to IT
 ITN 160: Programming I

Delaware State University
 CSCI 110: Computational Thinking I
 CSCI 120: Elements of Computer Programming I

University of Delaware
 CISC 101: Principles of Computing

Wilmington University
 CSC 200: Computer Science Fundamentals
 SEC 205 Fundamentals of Cybersecurity or
 SEC 210: Principles & Practice of Information Security
 CSC 305: Computer Architecture
 CSC 325: Java Programming I

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12	
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I → English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→	
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications			→
Science: 3 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics		→	Choose one: Anatomy and Physiology I and/or II → Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies	
Health: 0.5 credit	Health →				
Physical Education: 1 credit	Physical Education →				
World Language: 2 credits ³	World Language I-II →		ASD Recommends III-IV		
Pathway Requirement: 4 credits minimum	Computer Science Essentials	AP Computer Science Principles	AP Computer Science A	Cybersecurity[†]	
Work-Based Learning: 1 credit				Work-Based Learning Practicum	
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.				
Elective: 6.5 credits minimum	Students must earn at least 6.5 additional elective credits to complete this Pathway, one of which must be Science or Social Studies. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)				

COMPUTER SCIENCE PATHWAY (PLTW) REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

[†] = Capstone course



ENGINEERING PATHWAY (PLTW)

PATHWAY HIGHLIGHTS:

- Introduction to Engineering
- Principles of Engineering
- Engineering Design and Development
- Digital Electronics
- Dual Enrollment Opportunity



FUTURE CAREERS:

- Aeronautical Engineer
- Civil Engineer
- Mechanical Engineer
- Building Construction Engineer
- Industrial Materials Scientist
- Robotics Engineer
- Electrical Engineer
- Aerospace Engineer

SUMMARY OF PATHWAY:

The Project Lead the Way (PLTW) Engineering program of study is a four (4) course, instructional program that engages students in open-ended problem solving where students learn and apply the engineering design process and use modern, industry-leading technology and software. The program prepares students for further education and careers in engineering and engineering technology.

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students in this Pathway are required to have an internship/work-based experience, preferably during the Senior year.

COLLEGE CREDITS:

Students who complete the Engineering Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

Delaware Tech Community College
EDD 171: Intro to CAD using AutoCad

University of Maryland Eastern Shore
EDTE 121: Principles of T&E Education



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I → English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics	→	Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health →			
Physical Education: 1 credit	Physical Education →			
World Language: 2 credits ³	World Language I-II →	ASD Recommends III-IV		
Pathway Requirement: 4 credits minimum	Engineering Essentials	Intro to Engineering	Principles of Engineering	Engineering Design and Development[†]
Work-Based Learning: 1 credit	Work-Based Learning Practicum			
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

ENGINEERING PATHWAY (PLTW) REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



FORENSICS PATHWAY

PATHWAY HIGHLIGHTS:

- Anatomy/Physiology
- Forensic Science I
- Forensic Science II



FUTURE CAREERS:

- Forensic Accountant
- Forensic Anthropologist
- Forensic Ballistics Expert
- Forensic Chemist
- Forensic Crime Scene Investigator
- Forensic DNA Analyst
- Forensic Meteorologist
- Forensic Nurse
- Forensic Science Technician

SUMMARY OF PATHWAY:

The Forensic Pathway is designed to give students an introduction to the scientific concepts and laboratory research techniques currently used in the field of forensics. Students will continue to develop their critical thinking, laboratory, and communication skills necessary to be successful in the field. Students will be presented with scenarios that include some of the latest developments and intriguing news that helps shape popular forensic science during our current times. Many of the scenarios and stories students will engage with are taken directly from authentic past and present well known cases such as Jon Benet Ramsey, O.J. Simpson, Cory Monteith, the Washington D.C sniper killings, and many more.

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 4 credits	Earth/Space Science I	Chemistry I	Choose two: Anatomy and Physiology II Biology II Chemistry II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health	→		
Physical Education: 1 credit	Physical Education	→		
World Language: 2 credits ³	World Language I-II	→	ASD Recommends III-IV	
Pathway Requirement: 4 credits minimum	Biology I	Anatomy/Physiology I	Forensic Science I	Forensic Science II[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

FORENSICS PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



SCIENCE PATHWAY

PATHWAY HIGHLIGHTS:

- Anatomy and Physiology
- Biology
- Chemistry
- Physics
- Environmental Science
- Science Research
- Earth and Space Science
- Forensics



FUTURE CAREERS:

- Astrophysicist
- Climatologist
- Government Researcher
- Meteorologist
- Physicist
- Research Scientist
- Medical Professional
- Pharmacist

PATHWAY CREDITS:

- This pathway is a minimum of 30 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.

SUMMARY OF PATHWAY:

This academic Pathway is designed to provide coursework that will prepare any student to pursue a career within the areas of life, physical, or Earth sciences. The courses found in the Science Pathway will allow each student to develop the critical thinking and laboratory skills necessary to be successful in science and in life. Students in this Pathway will learn how to ask questions, develop and use models, plan and conduct investigations, analyze data to construct explanations, argue with evidence, and communicate both verbally and in writing just like scientists do in their fields. Students choosing this Pathway need to have a strong desire to learn through hands-on, inquiry-based lab activities and projects that will challenge them to apply their knowledge and skills and not just recall facts.



The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I English II	Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics	Choose two: Anatomy and Physiology II Biology II Chemistry II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	Choose two: Anatomy and Physiology II Biology II Chemistry II Earth/Space I and/or II Environmental Science Physics AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II			ASD Recommends III-IV
Pathway Requirement: 4 credits minimum	Choose 3 additional Science credits			Scientific Research and Design (fall only)[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

SCIENCE PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course



CONSTRUCTION, MACHINERY OPERATOR PATHWAY

PATHWAY HIGHLIGHTS:

- Opportunity to Earn 9 College Credits
- Delaware Department of Labor Registered Apprentice Program
- Complete First Year of Apprenticeship within this Pathway



FUTURE CAREERS:

- Heavy Equipment Operator
- Excavator
- Skilled Laborer
- Forklift Operator
- Heavy Machinery Operator
- Construction Manager
- Transportation, Storage, & Distribution Manager

PATHWAY CREDITS:

- This pathway is a minimum of 28 credits.
- An expectation for this pathway is that students sit for the AP exam in any AP course taken.
- Students are expected to participate in a work-based learning experience during their junior and/or senior year.
- Students in this pathway may earn industry-recognized certification/licenses:
 - » NCCER Core
 - » OSHA 30
 - » Forklift Operator
 - » Flagger



SUMMARY OF PATHWAY:

The Construction Machinery Operator program is a four (4) course instructional Pathway designed to provide students with the knowledge and skills necessary to begin a career as a heavy equipment operator. The Delaware Department of Labor has identified this career field as “high demand,” and students may enter the construction industry immediately following high school or after obtaining a college degree. The program includes both virtual and real seat time operating a skid-steer, backhoe, excavator, bulldozer, and forklift. Other topics include OSHA Construction Safety, ATSSA Flagger Certification, hand and power tool use, print reading, and grading/earth moving. The training in this unique Pathway will take place at both the high school and Delaware Tech’s Middletown Training Center. Students will earn high school credit, up to nine (9) Delaware Tech advanced standing college credits, OSHA and ATSSA Certifications, and the option for advanced standing in the State of Delaware Registered Apprenticeship Program.

COLLEGE CREDITS:

Students who complete the Construction, Machinery Operator Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

- Delaware Tech Community College**
 CMT 111: Construction Print Reading
 CMT 224: OSHA Construction Industry Training
 CMT 243: Co-op Work Experience OR
 CMT 246: Internship Work Experience

The following is a **suggested** sequence of courses required to successfully complete this pathway.

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 4 credits Pre-Grade 9 Opportunities: English I	Students are required to complete 4 ELA credits to graduate Courses are required to be taken sequentially English I → English II		Choose two: English III English IV British Literature English IV Gothic Lit English IV Themes in Literature English IV Protest Literature AP Language and Composition AP Literature and Composition	→
Mathematics: 4 credits ¹ Pre-Grade 9 Opportunities: Algebra I	Required Sequentially: Algebra I Geometry Algebra II	Students are required to take a Math course in their Senior Year. Choose additional courses: Precalculus Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications	Calculus AP Statistics AP Calculus AB AP Calculus BC AP Computer Sci A Trigonometry⁴	→
Science: 4 credits	Choose two, Biology MUST be one of the choices: Biology I Earth/Space Science I Chemistry I Physics	→	Choose two: Anatomy and Physiology I and/or II Biology II Chemistry I and/or II Earth/Space I and/or II Environmental Science Physics, AP Biology AP Chemistry AP Environmental Science AP Physics I and/or II	→
Social Studies: 3 credits ^{2,5}	AP Human Geography	Choose one: Economics and Personal Finance AP Macroeconomics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Optional: African American History AP Psychology Sociology World History⁵ AP World History⁵ AP European History AP African American Studies
Health: 0.5 credit	Health →			
Physical Education: 1 credit	Physical Education →			
World Language: 2 credits ³	World Language I-II →	ASD Recommends III-IV		
Pathway Requirement: 4 credits minimum	Foundations of Construction	Introduction to Machinery Operations	Advanced Machinery Operator	Construction Capstone[†]
Work-Based Learning: 1 credit				Work-Based Learning Practicum
Capstone Project & SSP: 1 credit	Students are required to complete a capstone project that is aligned to their Pathway. Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 4.5 credits minimum	Students must earn at least 4.5 additional elective credits. (.5 Credit is earned in Driver's Ed in most cases. It is NOT a graduation requirement.)			

¹ Students are required to take a Math course in their Senior Year.

² U.S. History **OR** AP US History must be taken in Grade 11.

³ The University of Delaware requires two World Language credits in High School of the same language, but also recommends four.

⁴ This course is a dual enrollment course.

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and The University of Delaware.

Students may want to take this as a 4th social studies credit or an elective credit.

† = Capstone course

Course Descriptions

ENGLISH LANGUAGE ARTS

English courses are intended to be taken sequentially with students taking English I prior to English II, etc. For upper classman courses, English III and IV can be substituted with an AP or Articulated course in English. Listed elective or Pathway courses may not be substituted for core courses.

ENGLISH I

01001, 01001H

1 Credit

This course expands upon the literature, composition, vocabulary, and communication skills previously learned in a student's educational career. Critical reading and analysis are reinforced as students tackle increasingly complex literary and informational texts. In addition to vocabulary expansion, the course focuses on the development of advanced writing skills. Writing includes peer editing, self-editing, and revision. Research skills and literary analysis are refined in each instructional unit.

ENGLISH I - MLL

010081

1 Credit

This course is designed for newcomers to the English language. Students will be introduced to foundational literacy and language skills and engage in a sequence of thematic collaborative learning modules focused on social and academic language in the domains of reading, writing, listening, and speaking. This course satisfies one English credit requirement.

ENGLISH II

01002, 01002H

1 Credit

This course builds upon the literary skills acquired in English I with continued emphasis on the reading and writing skills necessary for College and Career Readiness. The thematic approach incorporates

critical reading, writing, listening and speaking in a variety of contexts. Students will practice all stages of the writing process including prewriting, drafting, revising, editing, and post writing. Students will respond analytically, personally, and imaginatively to literature and informational texts and make connections to the world at large. The course also addresses grammar and usage, vocabulary development and the research process. Prerequisite: English I

ENGLISH II - MLL

010082

1 Credit

This course continues the development of a student's language proficiency with an emphasis on written and spoken academic discourse. Students focus on reading and analysis of authentic grade-level texts, and master communicative functions of writing according to form, purpose, and register. Throughout this blended-learning course, students will take advantage of a combination of adaptive technology that targets individual needs and collaborative classroom learning. This course satisfies one English credit requirement.

ENGLISH III

01003, 01003H

1 Credit

The foundation of this course is the study of American Literature including its development across time periods and genres. Research, writing skills, and new approaches to literary analysis are addressed through collaborative and individual assignments. The use of rhetoric will be a special focus for the course as students study and emulate the styles and approaches used in a variety of masterpieces from American authors. Prerequisite: English II

ENGLISH IV - BRITISH LITERATURE

01056, 01056H

1 Credit

This course is designed to expose students to a variety of British canonical works from a wide range of periods and perspectives. Students will explore multiple themes relating to culture, society, and the individual through the examination of text and related media such as film and graphic novels to support multiple interpretations of the same text. The ultimate goal of the course is to refine students' critical reading and writing skills via works from well-known British authors, to help them be as prepared as possible for their post-secondary endeavors.

ENGLISH IV - PROTEST LITERATURE

01090

1 Credit

This course is designed to critically examine the rich tradition of "protest literature" in the United States from the American Revolution to the present. The primary focus is on three enduring strands of protests: civil rights (beginning with antislavery), women's rights, and workers' rights. Using a broad definition of protest literature, students will pay close attention to the cultural production and consumption of dissent as a powerful "voice" of both individuals and movements. We will examine a wide range of print, visual, and oral forms of dissent, as we explore how various forms of dissent function as political, ideological, rhetorical, aesthetic, and performative texts within specific contexts. Students will critically read, write, and think as they delve into mostly primary sources ranging from pamphlets, speeches, essays, and poetry to photographs, music, sociology, and history.

ENGLISH IV - THEMES IN LITERATURE

01065, 01065H

1 Credit

Themes in Literature explores the purpose of literature in our lives. In this course, we delve into graphic novels, fairy tales, short stories and films, novels, and engaging nonfiction texts to gain new understandings and perspectives about society. Student discourse and collaboration are at the forefront of this course as students engage in academic conversations, projects, and activities. Themes in Literature challenges students to think in new ways, and the course gives students ownership of their learning. In this course, students will investigate topics such as Literary Theory, Mental Health, and Social Justice. This course encourages students to think outside of the box and express their thoughts in intelligent, constructive ways. After taking Themes in Literature, students will have a better understanding of the world around them, their place in society, and how to impact positive change.

ENGLISH IV - WIT LIT

01070

1 Credit

This course is designed to demonstrate how humor, satire, and allegory are used to engage readers while offering arguments and exposing issues in society. Through a thematic study of texts from different eras from Chaucer to Vonnegut, students will read critically to evaluate the author’s purpose and how humor not only entertains us but informs us of society’s flaws. The ultimate goal of this course is to refine students’ ability to read and write critically, with an eye to context and nuance.

CREATIVE WRITING

01104

1 Credit

In this online course, students will continue to develop their writing skills in this intensive elective course.

Students will explore different genres of writing through both reading and writing. Students will create original writing pieces through the writing process model. Students will engage in both formal and informal research as they explore topics of interest to them to use as the basis for writing. This course does not satisfy an English requirement.

ENGLISH DLM I, II

01901B, 01902B

This course will allow students to access modified high school text to expand vocabulary, reading comprehension, and writing skills. The class will use the Dynamic Learning Maps of the state high school English content standards. Students will matriculate through the certificate graduate program and will not receive credit.

ENGLISH DLM III, IV

01903B, 01904B

This course will allow students to access modified high school text to expand vocabulary, reading comprehension, and writing skills. The class will use the Dynamic Learning Maps of the state high school English content standards. Students will matriculate through the certificate graduate program and will not receive credit.

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ADVANCED PLACEMENT

AP LANGUAGE AND COMPOSITION

01005

1 Credit + 3 College Credits

This course engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects. Students also learn the way general conventions and the resources of language contribute to effectiveness in writing. This is a rigorous course and students are expected to take the AP Language and Composition exam. Prerequisite: English I and II.

AP LITERATURE AND COMPOSITION

01006

1 Credit + 3 College Credits

An AP English Literature and Composition course engages students in the careful reading and critical analysis of literature. Through close reading, students deepen their understanding of the ways writers use language to provide access through genres and themes. As they read, students consider a work’s structure, style, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Emphasis is placed on the analysis of literature and literary composition. This is a rigorous course and students are expected to take the AP Literature and Composition exam. Prerequisite: AP Lang or English III

ENGLISH LANGUAGE ARTS

AP RESEARCH

22112

1 Credit + 3 College Credits

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question.

Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or exhibition of the product where applicable) and a presentation with an oral defense. This course fulfills the 12th-grade English requirement.
Prerequisite: AP Seminar

AP SEMINAR

22110

1 Credit + 3 College Credits

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. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims

to equip students with the power to analyze and evaluate information with accuracy and precision to craft and communicate evidence-based arguments. Students taking this course are expected to take the AP Seminar exam. This course does not satisfy an English requirement.

ARTICULATED CREDIT

ENGLISH IV - GOTHIC LIT

ENG121GL

1 Credit + 3 College Credits

English Composition 121, a Wilmington University articulated course, will help you become a more proficient and effective writer, as well as develop your reading comprehension and analysis skills. Once you learn the basic elements of effective writing, you will incorporate those elements into four essays and a visual presentation. Writing assignments will be completed in stages, including pre-writing, drafting, and revising. You will also be introduced to effective reading strategies that can be applied to each writing assignment, including how to effectively use credible sources to support your argument. This course will focus on developing persuasive writing strategies as we write for specific purposes. To create effective formal arguments, we will learn to consider our audience, support our arguments with strong sources, and evaluate our work as critical readers.

MATHEMATICS

All students must take Algebra I, Geometry, and Algebra II sequentially and are required to take a Math course in their senior year.

ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS

02069

1 Credit

By combining algebraic and graphical approaches with practical business and personal finance applications, students will explore algebraic thinking patterns and functions in a financial context. Mathematics of Finance offers an applications-based learning approach incorporating advanced algebra skills learned in prior courses. Students will learn about the financial, real-life aspects of loans, banking, taxes, employment, retirement, and the stock market. This course also includes real-life projects to help students apply their financial knowledge to common financial scenarios such as home ownership and car buying. This course allows students to see how mathematics will be relevant in their future, no matter what career path they choose.
Prerequisite: Algebra II

ALGEBRA I

02052

1 Credit

Building on the major work of middle school, students will experience greater success with concepts associated with algebraic reasoning. This course continues to build on 4 critical areas: 1. Algebraic reasoning as a foundational mathematical skill that transcends students' abilities to do math, 2. Modeling relationships and constraints allow students to represent, interpret, and communicate their understanding of equations, 3. Interpreting statistical results is a life skill, and 4. The ability to collaborate with others and communicate an understanding of algebraic concepts.

ALGEBRA II

02056, 02052H

1 Credit

Extending the topics of study learned in Algebra I, students continue to

MATHEMATICS

build their picture of functions and their key characteristics. Students have the opportunity to further develop mathematical proficiency of polynomial, rational, exponential, and trigonometric functions through 5 critical areas. 1. Comprehend and connect concepts, operations, and relations, 2. Use procedures to solve complex problems, 3. Formulate and represent mathematical problems, 4. Think logically and justify thinking, and 5. Perceive mathematics as useful and worthwhile.

Prerequisite: Geometry

CALCULUS

02121H

1 Credit

Topics include basic elements of calculus including basic differential calculus of polynomials, rational, logarithmic, and exponential functions, derivative graphing and some discussion of limits.

Prerequisite: Precalculus

GEOMETRY

02072, 02072H

1 Credit

Students logically reason the relationships between points, lines, and planes to create formal mathematical arguments for transformations, similarity, congruence, circumference, and area redefining the concepts they explored in previous grades. This course will focus on 1. Constructing viable arguments and critiquing the work of others while proving a wide variety of theorems, 2. Making connections to algebraic concepts through the use of coordinates and formulas, and 3. Modeling geometric principles.

Prerequisite: Algebra I

GEOMETRY WITH ALGEBRAIC REASONING

02074

2 Credits

Building on the major work of middle school, students will experience greater success with concepts associated with algebraic reasoning. This course will continue to build on algebraic reasoning,

focus on modeling relationships and constraints to represent, interpret, and communicate an understanding of equations, and expand on the interpretation of statistical results. This course will also have students determine the relationships between points, lines, and planes to create formal mathematical arguments for transformations, similarity, congruence, circumference, and area. Throughout the course, students will also spend time working to construct viable arguments and critiquing the work of others while providing a wide variety of solutions and modeling of algebraic and geometric mathematics in classroom discussions.

Prerequisite: Algebra I

INTEGRATED CONSUMER MATH DLM I, II

02901B, 02902B

This course focuses on the practical application of algebra, geometry, statistics, and probability. Emphasis is on real world math skills. The class will use the Dynamic Learning Maps of the state high school math content standards. Students will matriculate through the diploma of alternate achievement standards graduate program. This is not a credit-bearing course.

INTEGRATED CONSUMER MATH DLM III, IV

02903B, 02904B

This course increases students' practical application of algebra, geometry, statistics and probability. Emphasis is on the real-world math skills. The class will use the Dynamic Learning Maps of the state high school math content standards. Students will matriculate through the diploma of alternate achievement standards graduate program. This is not a credit-bearing course.

PRECALCULUS

02110H

1 Credit

Combining concepts of trigonometry, geometry, and algebra students extend their work with complex numbers and revisit functions

alongside conic sections, limits, and linear algebra. Students will develop a solid foundation for higher-level mathematics courses such as calculus, business calculus, and finite mathematics. This course allows students to 1. Reason abstractly and quantitatively in making sense of algebraic representations of geometric concepts, 2. Use graphing tools strategically to deepen their understanding of the behavior of functions, and 3. Model with mathematics drawing connections to physics, engineering, and other sciences.

Prerequisite: Algebra II

STATISTICAL ANALYSIS IN SPORTS

02204

1 Credit

This online course teaches students how to use the four steps of the analytical process in the context of sports: ask questions, collect data, analyze data, and make conclusions. Each chapter will begin with a sports-related mathematical question (e.g. Is there a home field advantage in the NFL?) and then students will learn how to collect appropriate data, how to analyze the data, and how to make appropriate conclusions.

This course satisfies the Common Core State Standards for Probability and Statistics and National STEM Standards. We will be using the textbook Statistical Reasoning in Sports by Josh Tabor and Christine Franklin as our first text, but will also include a series of article readings on a variety of sports-specific topics and also non-fictional books.

Prerequisite: Algebra I

STATISTICS & PROBABILITY

02201

1 Credit

This course provides a collaborative, in-depth study of probability and statistics. The probability section will focus on data analysis. The statistics section includes graphical representations of data, numerical descriptions of distributions, drawing

inferences from data (including misuses of data), sampling & experimental design, and simulation.
Prerequisite: Algebra II

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ADVANCED PLACEMENT

AP CALCULUS AB

02124

2 Credits + 3 College Credits

This upper-level calculus course mimics the first semester of a college calculus course and prepares students to take the AP Calculus AB Exam in May. It covers an introduction to limits, development of the derivative and applications of the derivative to related rate problems, optimization, curve sketching, and rectilinear motion problems. Integration is introduced and applied to problems involving area and volume.

Prerequisite: Precalculus
Students taking this course are expected to take the AP Exam in May.

AP CALCULUS BC

02125

1 Credit + 3 College Credits

This upper-level calculus course mimics the first two semesters of a college calculus course and prepares students to take the AP Calculus BC Exam in May. In addition to the topics covered in AP Calculus AB, the course covers single variable differential calculus, integral calculus, and infinite series and sequences.

Prerequisite: Precalculus or AP Calculus AB.

This course is typically taken concurrently with AP Calculus AB. Students taking this course are expected to take the AP Exam in May.

AP COMPUTER SCIENCE A

10157

1 Credit + 3 College Credits

Computer Science A focuses on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their choosing by designing and implementing user interfaces and Web-based databases. Students who complete this course are expected to take the AP Computer Science A exam in the spring.

Prerequisite: AP Computer Science Principles

AP PRECALCULUS

02114

1 Credit + 3 College Credits

Pre-Calculus is the preparation for Calculus. The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations. The study of Pre-Calculus deepens a student's mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels.

Prerequisite: Algebra II
Students taking this course are expected to take the AP exam.

AP STATISTICS

02203

1 Credit + 3 College Credits

Students will be introduced to the major concepts and tools necessary for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual

themes; exploring data, sampling and experimentation, anticipating patterns, and statistical inference. All students are expected to take the AP exam. This is a yearlong, alternate day, course.

Prerequisite: Algebra II
Students taking this course are expected to take the AP exam.

DUAL ENROLLMENT

DELAWARE STATE UNIVERSITY

When students take a Dual Enrollment course as a requirement within a Pathway, the district covers the cost of the course. When a student takes a Dual Enrollment course as an elective or optional course, the student is responsible for the cost of the course.

TRIGONOMETRY

02910

1 Credit + 3 College Credits

A course designed to prepare students for calculus. Topics include exponential and logarithmic functions, trigonometric functions and graphs, trigonometric identities, trigonometric equations, inverse trigonometric functions, laws of sines and cosines, and applications.

Prerequisite: Algebra II

MTSC122 Delaware State dual enrollment is dependent upon a passing score on the Mathematics placement test.

ANATOMY AND PHYSIOLOGY I**0305312, 0305312H****1 Credit**

This course is designed for those interested in the medical field. The course first introduces anatomy and physiology as well as basic terminology and tissues. An overview of chemistry and biology as it relates to the levels of organization is also covered. Next, the course covers the integumentary, skeletal, muscular, and nervous systems; both their structure and function as well as their contribution to homeostasis are part of this course. Throughout the course, the students will analyze and collaborate to design a course of action for various case studies. Dissection is required.

Prerequisite: Biology I

ANATOMY AND PHYSIOLOGY II**0305313H****1 Credit**

This course continues to explore the human body further and looks more in-depth at the cardiovascular, lymphatic, urinary, respiratory, digestive and reproductive systems. Dissections are a required component of this course and are more extensive than Anatomy and Physiology I. Throughout the course, the students will analyze and collaborate to design a course of action for various case studies.

Prerequisite: Anatomy and Physiology I

BIOLOGY I**03051, 03051H****1 Credit**

This course uses inquiry-based investigations to explore the relationships within cellular energy systems, cellular structure and function, DNA and genetic influence, evolutionary theory and ecological connections. Students will get experience gathering information to communicate reasoning through formal lab reports and writing to explain systems and models investigated.

BIOLOGY II**03052H****1 Credit**

This course investigates current research in Biology and how this research impacts global dynamics. This will include more in-depth research on various topics to enable students to construct written and verbal explanations of scientific concepts and evidence-based arguments. At the end of the course, students will be assessed by presenting a possible solution to a global, biological issue supported by evidence from their research and/or experimentation.

Prerequisite: Biology I

ASD Recommends: Chemistry I

CHEMISTRY I**03101, 03101H****1 Credit**

This introductory chemistry course is designed for college-bound students interested in majoring in science and medical careers. Topics include an overview of atomic theory, patterns in the periodic table, the use of models to explain chemical bonding, basic chemical reactions, and stoichiometry. Planning and carrying out investigations and using mathematics in computational thinking are emphasized.

Prerequisite: Algebra I or equivalent course

CHEMISTRY II**03102H****1 Credit**

The Chemistry II course continues the content learned in the Chemistry I course. Topics of study include gas laws, models for chemical equilibrium, relationships in thermochemistry, and acid/base chemistry. Students will demonstrate their ability to evaluate and communicate information to explain the interconnections between these topics. Planning and carrying out investigations and using mathematics in computational thinking are strongly emphasized.

Prerequisite: Chemistry I

EARTH AND SPACE SCIENCE I**0300812, 0300812H****1 Credit**

The Earth and space course is designed to engage students in science that addresses humanity's immediate issues: the exploration of our solar system and Earth's place in the universe; interpretation of geologic evidence; weather and climate; and Earth's materials and systems. Students will develop and use models to build an in-depth understanding of Earth and space as a series of complex systems through which matter and energy are continuously cycled.

EARTH AND SPACE SCIENCE II**0300822H****1 Credit**

Earth and Space Science II builds on the foundation developed in Earth and Space Science I. In Earth and Space Science II, students will explore astronomy in a more computational manner, discovering the inner-workings of our universe, galaxy, and solar system including measuring orbital motion, applying Kepler's laws, and general planetology. Students will also dig further into the geology of Earth, including Earth's structure, stratigraphy, rocks and minerals, and the life forms scientists use to learn more about the Earth. Students will approach these topics from a fieldwork perspective, learning techniques used by scientists from all disciplines to uncover the mysteries of Earth.

Prerequisite: Earth and Space Science I

ENVIRONMENTAL SCIENCE**03003****1 Credit**

Environmental Science is designed to show thematic connections among a variety of science disciplines, including biology, chemistry, and earth science. Students will apply prior scientific knowledge to current environmental issues and will become better-informed citizens and decision makers. Key topic areas include the application of the scientific process to environmental analysis; ecology;

energy flow; ecological structures; earth systems; and atmospheric, land and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment.

Prerequisite: Students will have completed a minimum of two science credits. Suggested courses would include Biology I, Earth and Space Science I, Chemistry I.

FORENSIC SCIENCE I

03214

1 Credit

Forensic Science is designed to incorporate the scientific concepts and techniques utilized in the field of forensics. Course units include observational skills, crime scene analysis, evidence gathering and processing, hair, fiber and textile analysis, DNA profiling, fingerprint analysis, blood spatter and forensic anthropology. The course concludes with a death scene investigation that allows students to embody the role of a forensic investigator and ultimately put the skills learned throughout the course into cumulative practice. Evidence-based reasoning is a cornerstone of the course and will be employed using an activity-based approach to frame each curricular unit.

Prerequisite: Biology I, Chemistry I, Geometry

Prerequisite OR concurrent course: Anatomy and Physiology I

FORENSIC SCIENCE II

03215

1 Credit

Forensic Science II is designed to incorporate the scientific concepts and techniques utilized in the field of forensics. Course units include crime scene analysis, physical/biological evidence gathering and processing, firearms/explosives, toxicology, and communication analysis. The course concludes with a death scene investigation that allows students to embody the role of a forensic investigator and ultimately put the skills learned throughout the course

into cumulative practice. Evidence-based reasoning is a cornerstone of the course and will be employed using an activity-based approach to frame each curricular unit. Capturing evidence via photographic or video-graphic means is an essential component of crime scene investigation. As such, students will be required to photo and/or videotape themselves and each other for various assignments and assessments in this course.

Prerequisite: Forensic Science I

PHYSICS

03151

1 Credit

This is an introductory course focusing on energy and its relation to motion, electronics, heat and light. Students will plan and conduct investigations throughout the course to explore these topics. Emphasis will be on data analysis and conceptual understanding in order to construct explanations of students' experiences in the physical world. Projects will be used to connect cross-cutting themes throughout the curriculum. Completion of the course will develop a foundation for continuing studies in Science, Technology, Engineering and Math.

Prerequisites: Algebra I or equivalent course AND Geometry

SCIENTIFIC RESEARCH AND DESIGN

03212

1 Credit

The capstone course represents the culmination of the Science Pathway. This course focuses on technical scientific writing, laboratory skills, robust data analysis, and the development and implementation of effective research practices. The final product for the course will be an independent research project on a topic of the student's choosing. All students will be expected to present their findings as part of the ASD STEM Fair. Prerequisite: Students will have completed a minimum of 6 Science credits.

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria in order to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ADVANCED PLACEMENT AP BIOLOGY

03056

2 Credits + 3 College Credits

This course is designed around the AP Biology Curriculum Framework that focuses on the major concepts in biology and their connections. Additionally, the Curriculum Framework provides a basis for students to develop a deep conceptual understanding as well as opportunities to integrate biological knowledge and science practices through inquiry-based activities and laboratory investigations without having to teach a textbook from cover to cover. This is a two-semester course that meets every day.

Prerequisite: Biology I plus concurrent course: Chemistry I

Students taking this course are expected to take the AP exam.

AP CHEMISTRY

03106

2 Credits + 3 College Credits

Advanced Placement Chemistry is the equivalent of one year of college general chemistry. The pace and workload of this course is rigorous. Topics include atomic structure, chemical reactions, stoichiometry, gas laws, rates of reactions, chemical equilibrium, acids and bases, and electrochemistry. The focus of both class and lab work is on preparation for the College Board AP test which is administered in May. This is a two-semester course that meets every day.

Prerequisite: Chemistry I

Students taking this course are expected to take the AP exam.

AP ENVIRONMENTAL SCIENCE**03207****2 Credits + 3 College Credits**

The AP Environmental Science course is designed to be the equivalent of a one-semester introductory college course. Students will engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environment science is interdisciplinary, embracing topics from geology, biology, environmental studies, chemistry, and geography. This is a two-semester course that meets every day. Prerequisite: Algebra I or equivalent course. Students will also have completed a minimum of two science credits. Suggested courses would include Biology I, Earth and Space Science I, or Chemistry I. Students taking this course are expected to take the AP exam.

AP PHYSICS I**03165****2 Credits + 3 College Credits**

This course is the equivalent of a first-semester college course in algebra-based physics. The course focuses on the conceptual and quantitative understanding of how forces and energy govern motion. Additionally, waves, sound and DC circuits are explored. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. Students will establish lines of evidence through extensive hands-on laboratory work, with an emphasis on inquiry-based investigations and use them to develop and refine testable explanations and predictions of natural phenomena. This is a two-semester course that meets every day. Prerequisite: Geometry
ASD Recommends: Algebra II and

Precalculus. Students taking this course are expected to take the AP exam.

AP PHYSICS II**03166****1 Credit + 3 College Credits**

This course is the equivalent of a second semester college course in algebra-based physics. The course focuses on the conceptual and quantitative understanding of how forces and energy govern fluids, heat, light, electricity and magnetism. The course is based on six Big Ideas, which encompass core scientific principles, theories and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. Students will establish lines of evidence through extensive hands-on laboratory work, with an emphasis on inquiry-based investigations and use them to develop and refine testable explanations and predictions of natural phenomena. Prerequisite: AP Physics I (Students may take AP Physics I and AP Physics II concurrently.) Students taking this course are expected to take the AP exam.

ARTICULATED CREDIT**ESSENTIALS OF ANATOMY AND PHYSIOLOGY****BIO110****1 Credit + 3 College Credits**

This course includes structure and function of the human body with an emphasis on gross anatomy as well as all organ systems and their relationship to homeostasis. Coordinated laboratory activities are an integral part of this course. This course will be offered as an articulated course with Delaware Technical Community College (BIO110-Essentials of Anatomy and Physiology) Upon successful completion of the course (75% or better), students will receive three college credits from DTCC.

GENE EDITING**14990****1 Credit + 3 College Credits**

The Gene Editing course engages

students in open-ended problem solving where they study topics such as DNA, disease, and gene therapy. Through exploration of gene editing, students will acquire important knowledge and laboratory skills providing insight into the roles of scientists and medical doctors in the career fields of genetics, forensics, and education. Students will read *The Immortal Life of Henrietta Lacks* and discuss legal, ethical, and trust issues as well as healthcare disparities in minority populations. Prerequisite: Biology or Anatomy & Physiology

DUAL ENROLLMENT DELAWARE TECHNICAL COMMUNITY COLLEGE

When students take a Dual Enrollment course as a requirement within a Pathway, the district covers the cost of the course. When a student takes a Dual Enrollment course as an elective course, the student is responsible for the cost of the course.

ANATOMY AND PHYSIOLOGY**03910****1 Credit + 3 College Credits**

This course, DTCC BIO120, introduces students to anatomy & physiology of humans including the structure and function of cells, tissues, integumentary, skeletal, muscular, nervous, and endocrine systems. Coordinated laboratory experiments are an integral part of this course. Students learn the physiology of each body system, as well as how to investigate common diseases, disorders, and emerging diseases. The prevention of disease, diagnosis, and treatment are addressed. There is an additional \$65 lab manual fee due the first week of class. Prerequisite: Biology I - ASD Recommends: Anatomy and Physiology I

DTCC dual enrollment is dependent upon a SAT EBRW score of 480 or higher, 3.0 GPA, or successful completion of Foundations of English.

SOCIAL STUDIES

AFRICAN AMERICAN HISTORY

04107

1 Credit

In this course, students explore the African American struggle for freedom and equality. Topics include the study of African societies, slavery, the Civil War and current African American issues.

ECONOMICS AND PERSONAL FINANCE

04201

1 credit

This class engages students in the study of the economy, its impact on their lives, and the effects that choices and decisions have on the economy as a whole. To understand how a market economy creates interdependence, students will receive grounding in economic systems, microeconomics, macroeconomics, and international trade. Using case studies, current events, supply and demand analysis, and cost benefit analysis, they will examine public policy choices at the societal level as well as applying these skills to individual decisions and problem solving.

UNITED STATES HISTORY

04101

1 Credit

In this course, students will investigate US History from the 1860s through modern times, including Reconstruction, westward migration, industrialization, progressivism, imperialism, World War I, the Great Depression, World War II, the Cold War, and the modern US. In this course, students will examine and interpret historical data, conduct research, engage in discussion, and participate in simulations.

WORLD HISTORY

04053

1 Credit

In this course, students will investigate World History from the end of the Middle Ages (roughly 1400 CE) to the present day. Themes to be examined include the Renaissance, the Enlightenment, revolutions,

industrialism, imperialism, and nationalism. The course will conclude with an overview of the complex problems facing the world today.

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria in order to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ADVANCED PLACEMENT

AP AFRICAN AMERICAN STUDIES

TBA

1 Credit + 3 College Credits

In this course, students will examine the history, politics, culture, and economics of North American people of African descent. From the slave economy to the civil rights movement, and from the blues to hip-hop, African Americans have had a huge role in shaping American society and culture. Students will also examine hardships African Americans have faced historically and the difficult issues of today.

AP COMPARATIVE GOVERNMENT AND POLITICS

04158

1 Credit + 3 College Credits

AP Comparative Government and Politics is an introductory college-level course in comparative government and politics. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.

AP EUROPEAN HISTORY

04056

1 Credit + 3 College Credits

In this course, students will analyze the history of Europe from c. 1450 to the present. Through the study of the major cultural, economic, political, and social developments, students will develop the analytic skills and factual knowledge necessary to critically examine the historical data of Europe's history and global influence. Students taking this course are expected to take the AP European History exam.

AP GOVERNMENT AND POLITICS: UNITED STATES

04157

1 Credit + 3 College Credits

In this course, students investigate various aspects of the U.S. government. Topics include U.S. culture and voting, American democratic principles and values, the institutions of government, and the creation & effects of public policy. Students taking this course are expected to take the AP exam.

AP HUMAN GEOGRAPHY

04004

1 Credit + 3 College Credits

This course introduces students to the study of geography and spatial patterns, through the examination of population patterns and distribution, cultural patterns and landscapes, economic systems and patterns, urban geography, and political geography. Students will be expected to do research projects, engage in classroom discussions, and participate in simulations. Students taking this course are expected to take the AP Human Geography exam.

AP MACROECONOMICS

04204

1 Credit + 3 College Credits

AP Macroeconomics is an extension of AP Microeconomics. In this course, students will gain a thorough understanding of economic systems as a whole. Through the analysis of economic performance measures,

SOCIAL STUDIES

students will examine income and price-level determination, stabilization policies, the financial sector, economic growth, and international economics. Students taking this course are expected to take the AP Macroeconomics exam.

AP MICROECONOMICS

04203

1 Credit + 3 College Credits

In this course, students will gain an understanding of the principles of Economics in relation to individual decision-makers, both producers and consumers, in an economic system. Students will explore product and factor markets and analyze the role of the government in the functioning of the economy. Students taking this course are expected to take the AP Microeconomics exam.

AP PSYCHOLOGY

04256

1 Credit + 3 College Credits

In this course, students investigate the scientific theories of human behavior and their application. They explore the anatomy of the brain discovering why people behave the way they do. Students taking this course are expected to take the AP Psychology exam.

AP RESEARCH

22112

1 Credit + 3 College Credits

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question.

Students explore their skill development, document their

processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. This course fulfills the 12th-grade English requirement.

Prerequisite: AP Seminar

AP SEMINAR

22110

1 Credit + 3 College Credits

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. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision to craft and communicate evidence-based arguments. Students taking this course are expected to take the AP Seminar exam.

AP U.S. HISTORY

04104

1 Credit + 3 College Credits

In this course, students will thoroughly analyze the history of United States History from its founding through the present day. Through the study of the major political, social, and economic events, students will develop the analytic skills and factual knowledge necessary to critically examine the historical data of our nation's history. Students

taking this course are expected to take the AP US History exam. Prerequisite: Successful completion of 9th and 10th grade Social Studies.

AP WORLD HISTORY

04057

1 Credit + 3 College Credits

In this course, students will examine the evolution of global processes from 8000 B.C.E. to the present. Topics include human interaction with the environment, the development of cultures, the expansion of empires, the growth of economic systems, and the transformation of social structures. Students taking this course are expected to take the AP World History exam.

ARTICULATED CREDIT

SOCIOLOGY

042580

1 Credit + 3 College Credits

In this course, students explore the social origins of human behavior, gaining an understanding of culture and the structure of societies. They develop a sociological perspective and learn how to conduct social science research using state-of-the-art technology; interpret data and present conclusions.

WORLD LANGUAGES

AMERICAN SIGN LANGUAGE I

24852

1 Credit

Students gain an introductory knowledge of expressive and receptive American Sign Language (ASL) vocabulary through performance-based activities. Basic ASL grammar will be introduced.

AMERICAN SIGN LANGUAGE II

24853

1 Credit

Students further their understanding of ASL including a more in-depth study of American Deaf Culture. Prerequisite: ASL I

WORLD LANGUAGES

AMERICAN SIGN LANGUAGE III

248540

1 Credit

Students will enhance proficiency in ASL using linguistic, Deaf culture, and a communicative approach. There is a continued focus on receptive and expressive signing skills.

Prerequisite: ASL II

AMERICAN SIGN LANGUAGE IV

248550

1 Credit

ASL IV is a continuation of ASL III. Students will continue to focus on vocabulary expansion, linguistics, cross-cultural communication, and Deaf culture knowledge at an advanced level.

Prerequisite: ASL III

AMERICAN SIGN LANGUAGE V

24856

1 Credit

This course provides an overview of the interpreting profession, including roles and ethics of interpreting as well as discourse strategies in a variety of communication contexts. Field experiences are designed to apply the basic practices of translating and interpreting in different settings, with opportunities to educate others and advocate for the Deaf Community.

Prerequisite: ASL IV

CHINESE I

24402

1 Credit

This introductory Chinese course is designed to develop students' proficiency in listening, speaking, reading and writing in authentic situations. They will be introduced to Chinese characters (Hanzi) and how culture and language interact in Chinese-speaking countries.

CHINESE II

24403

1 Credit

This course continues to develop students' Chinese proficiency in listening, speaking, reading and writing in real-life situations. Students will continue to develop their knowledge and understanding

of Chinese characters (Hanzi) and culture. Prerequisite: Chinese I

CHINESE III

244040

1 Credit

This course builds upon the skills developed in Chinese I and II, continuing to focus students' proficiency in listening, speaking, reading and writing in authentic situations. Students will continue to explore Chinese culture.

Prerequisite: Chinese II

CHINESE IV

244050

1 Credit

This intermediate-level course focuses on reading and writing, as well as conversational skills that build on knowledge and skills gained in Chinese I, II, and III. Students will continue to engage with the Chinese culture authentically.

Prerequisite: Chinese III

FRENCH I

24102

1 Credit

This introductory French course is designed to develop students' proficiency in listening, speaking, reading and writing in authentic situations. They will be introduced to Francophone cultures around the world.

FRENCH II

24103

1 Credit

This secondary-level course continues to develop a student's language proficiency in listening, speaking, reading and writing in real-life situations. Students will continue to develop their knowledge and understanding of Francophone cultures.

Prerequisite: French I

FRENCH III

241040

1 Credit

This intermediate level course builds upon the skills developed in French I and II, continuing to focus

on students' proficiency in listening, speaking, reading and writing in authentic situations. Students will continue to explore and engage with Francophone cultures.

Prerequisite: French II

FRENCH IV

241050

1 Credit

This advanced level course focuses on reading and writing, as well as conversational skills that build on knowledge and skills gained in French I, II, and III. Students will continue to engage with Francophone cultures authentically.

Prerequisite: French III

JAPANESE I

24452

1 Credit

This introductory Japanese course is designed to develop students' proficiency in listening, speaking, reading and writing in authentic situations. They will be introduced to Japanese characters (Kanji, Hiragana and Katakana) and how culture and language interact.

JAPANESE II

24453

1 Credit

This course continues to develop students' Japanese proficiency in listening, speaking, reading and writing in real-life situations. Students will continue to develop their knowledge and understanding of Japanese characters (Kanji, Hiragana and Katakana) and culture.

Prerequisite: Japanese I

JAPANESE III

244540

1 Credit

This course builds upon the skills developed in Japanese I and II, continuing to focus on student's proficiency in listening, speaking, reading and writing in authentic situations. Students will continue to explore Japanese culture.

Prerequisite: Japanese II

WORLD LANGUAGES

JAPANESE IV

244550

1 Credit

This intermediate level course focuses on reading and writing, as well as conversational skills that build on knowledge and skills gained in Japanese I, II, and III. Students will continue to engage authentically with Japanese culture.

Prerequisite: Japanese III

SPANISH I

24052

1 Credit

This introductory Spanish course is designed to develop students' proficiency in listening, speaking, reading and writing in authentic situations. They will be introduced to Spanish cultures around the world.

SPANISH II

24053

1 Credit

This secondary-level course continues to develop student's language proficiency in listening, speaking, reading and writing in real-life situations. Students will continue to develop their knowledge and understanding of Spanish culture.

Prerequisite: Spanish I

SPANISH III

240540

1 Credit

This intermediate level course builds upon the skills developed in Spanish I and II, continuing to focus on student's proficiency in listening, speaking, reading and writing in authentic situations. Students will continue to explore and engage with Spanish cultures.

Prerequisite: Spanish II

SPANISH IV

240550

1 Credit

This advanced level course focuses on reading and writing, as well as conversational skills that build on knowledge and skills gained in Spanish I, II, and III. Students will continue to engage authentically with Spanish cultures.

Prerequisite: Spanish III

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ADVANCED PLACEMENT

AP CHINESE

24414

1 Credit + 3 College Credits

AP Chinese Language and Culture is equivalent to an intermediate-level college course in Chinese. Students cultivate their understanding of Chinese language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.

AP FRENCH LANGUAGE AND CULTURE

24065

1 Credit + 3 College Credits

This class will prepare students for the College Board Advanced Placement French Language Exam. Students will learn to understand a wide variety of authentic written and spoken French, with an emphasis on literature, composition, and conversation.

The exam, and curriculum, covers 6 themes: world challenges, cultural identity, science and technology, daily life, arts, and family and community. Students taking this course are expected to take the AP exam.

Prerequisite: French IV

AP JAPANESE LANGUAGE AND CULTURE

24066

1 Credit + 3 College Credits

The purpose of this course is to prepare students for the College Board Advanced Placement Japanese

Language Exam. The course places an emphasis on cultural competence, connections to other school disciplines, comparisons between the Japanese and American culture, and the use of the language in the community and beyond. Students will develop the ability to communicate in a culturally appropriate manner. Students taking this course are expected to take the AP exam.

Prerequisite: Japanese IV

AP SPANISH LANGUAGE AND CULTURE

24064

1 Credit + 3 College Credits

The purpose of this course is to prepare students to take the College Board Advanced Placement Spanish Language Exam. The emphasis is on the analysis of literature and advanced conversation and composition. Students taking this course are expected to take the AP exam.

Prerequisite: Spanish IV

DUAL ENROLLMENT COURSE

When students take a Dual Enrollment course as a requirement within a Pathway, the district covers the cost of the course. When a student takes a Dual Enrollment course as an elective or optional course, the student is responsible for the cost of the course.

DELAWARE STATE UNIVERSITY SPANISH CONVERSATION

SPAN 222

1 Credit + 3 College Credits

This advanced-level Spanish course focuses on improving fluency skills of speaking and listening by building vocabulary and knowledge of grammar in context. Students will improve their conversational skills in real-world situations while advancing their intercultural competency.

AGRICULTURE AND NATURAL RESOURCES

ANIMAL SCIENCE & MANAGEMENT CAPSTONE

AG9114

1 Credit

This course is for students interested in continuing their study of animals and related animal health careers or research. Students will be going out in the field working with livestock or small animals in a production and/or veterinary setting topics such as animal health and evaluation, bandaging, giving medicines under the direction of a DVM, office procedures, medical records, nutrition, animal care, medical terminology, instrument care & identification, animal handling techniques, vital signs, lab procedures, anatomy and pharmacology. This is the capstone senior year course for students enrolled in the Animal Science Pathway.

Prerequisite: Domestic Animal Management

FOUNDATIONS OF ANIMAL SCIENCE

181010

1 Credit

This course focuses on the fundamentals of animal science which include animal origin, domestication and uses, careers in the animal industry, animal safety and sanitation, ways animals help humans, taxonomy and breeds, basic nutrition and health, biosecurity principles and environmental conditions on animals and animal rights vs. welfare. Students are introduced to the foundational leadership skills, responsibility, and cooperation needed to be a successful and productive citizens through a school-based agricultural education three-component model which includes FFA activities, Supervised Agricultural Experience programs, and career and leadership development events.

FOUNDATIONS OF PLANT SCIENCE

AG9121

1 Credit

This course explores the plant

industries and food systems of the United States to foster an understanding of the steps involved in growing crops for food, as well as plants for ornamental and aesthetic purposes. Students study the major characteristics of plant life, plant structures and functions, nutrient needs of plants, fundamentals of soil science, water management, cultural practices, pest management, and explore career options in the horticulture industry through classroom and laboratory instruction. Students are introduced to the foundational leadership skills, responsibility, and cooperation needed to be a successful and productive citizen through a school-based agricultural education three-component model which includes FFA activities, Supervised Agricultural Experience programs, and career and leadership development events.

GROWTH AND DEVELOPMENT OF DOMESTIC ANIMALS

181050

1 Credit

This course enables students to apply animal science principles including biosecurity principles and environmental conditions on animals, scientific principles of anatomy, physiology & reproduction, nutrition, animal health & management, animal products and processing, laws and sustainable practices, and industry standards on the animal selection process. Students develop leadership skills, increase levels of responsibility, and engage in cooperative activities through FFA activities, Supervised Agricultural Experience programs, and career & leadership development events through a school-based three-component agricultural education model.

Prerequisite: Foundations of Animal Science

INTRODUCTION TO NATURAL RESOURCES

AG9124

1 Credit

This course introduces the interactions of living and nonliving

systems on Earth. Topics include the nature of science, ecology, water quality, chemical interactions, weather and climate, energy, and resource management as well as exploration of career opportunities on a local, state and national level. Laboratory exercises reinforce curriculum and provide students the opportunity to apply data analysis to their observations. Students are introduced to the foundational leadership skills, responsibility, and cooperation needed to be a successful and productive citizen through a school-based agricultural education three-component model which includes FFA activities, Supervised Agricultural Experience programs, and career and leadership development events.

NATURAL RESOURCE MANAGEMENT CAPSTONE

AG9140

1 Credit

Designed to acquaint students through actual work-based learning experiences with research and management activities not available on campus. Students will work with professionals in an area of concentration. Student evaluation will be based upon the recommendation of the field supervisor and detailed written reports submitted by the student. This is the capstone senior year course for students enrolled in the Natural Resources and Environmental Sciences Pathway. Prerequisite: Environmental & Natural Resource Stewardship

PLANT & SOIL SYSTEMS

AG9122

1 Credit

This course enables students to build on the knowledge and experiences gained fundamentals of plant and soil science. Students apply knowledge and concepts of plant science, soil science, water management, pest management, and various crop production characteristics through hands on laboratory and experiential learning. PSS uses a combination of classroom and laboratory instruction

AGRICULTURE AND NATURAL RESOURCES

that includes land labs, greenhouses, landscape beds, floral production, and hydroponics. Students develop leadership skills, increase levels of responsibility, and engage in cooperative activities through FFA activities, Supervised Agricultural Experience programs, and career and leadership development events through a school-based three-component agricultural education model.

Prerequisite: Foundations of Plant Science

PLANT SCIENCE CAPSTONE

AG9131

1 Credit

This course applies research-based study that utilizes skills gained in the three previous levels of instruction. Students complete a comprehensive, course-long research project to further their knowledge and experience within plant science or the horticultural industry. They are expected to explore various careers within the horticultural industry and complete a minimal amount of hours of work-based experience (volunteer or paid). Students will be expected to compete in a career development event through the National FFA organization at the state level on a topic related to their completed agriscience Pathway. This is the capstone senior year course for students enrolled in the Plant and Horticultural Sciences Pathway.

Prerequisite: Plant Systems Management & Sustainability

PRINCIPLES OF ENVIRONMENTAL SCIENCE

AG9125

1 Credit

This course provides students with the opportunity to apply conservation principles to preserve the environment, natural resources, and ecosystems. Students learn proper soil and land use practices, the impact of chemicals on the environment, and how to test water and air quality. Students understand societal issues relating to the environment as well as land use and waste management.

Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs. Students develop leadership skills, increase levels of responsibility, and engage in cooperative activities through FFA activities, Supervised Agricultural Experience programs, and career and leadership development events through a school-based three-component agricultural education model.

Prerequisite: Introduction to Natural Resources

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ARTICULATED CREDIT

DOMESTIC ANIMAL MANGEMENT

181110

1 Credit + 3 College Credits

This course enables students to demonstrate their mastery of the content covered in FSA and GDDA and apply their technical knowledge and skills in the field of animal agriculture. Students apply their mastery of biosecurity principles and environmental conditions on animals, global applications of animal agriculture, reproduction and genetics, animal nutrition, animal health care and evaluation, selection and marketing, and legal responsibilities through hands-on activities. Students apply skills gained through Supervised Agricultural Experience programs, FFA leadership activities, and career and leadership development events to better serve the community through a school-based three-component agricultural education model.

Prerequisite: Growth and Development of Domestic Animals

PLANTS SYSTEMS MANAGEMENT & SUSTAINABILITY

AG9123

1 Credit + 3 College Credits

This course enables students to apply principles of horticulture production and facility maintenance and design. Students learn soil conservation and land management practices, as well as concepts related to integrated pest management and how to properly use and apply pesticides, as well as principles of business management and record keeping. Students explore global economic systems, sustainability of plant life, and the multifaceted role plants play in sustaining and improving the quality of life. Students apply skills gained through Supervised Agricultural Experience programs, FFA leadership activities, and career and leadership development events to better serve the community through a school-based three-component agricultural education model.

Prerequisite: Plant and Soil Systems

ENVIRONMENTAL & NATURAL RESOURCE STEWARDSHIP

AG9126

1 Credit

This course immerses students in the concepts of sustainability related to agriculture production, land ownership and civic green space. Students investigate earth systems and resources, the living world, population dynamics, land and water use, energy resources and consumption, pollution, and global changes through discussion and debate. Students learn how to implement production and marketing practices that are profitable and environmentally sound while meeting the needs of both the present and future generations. Students practice ownership and community involvement. Students completing a program of study in this Pathway will demonstrate competence in the application of principles and techniques for the development, application and management of environmental service systems as well as business enterprises. Students

AGRICULTURE AND NATURAL RESOURCES

apply skills gained through Supervised Agricultural Experience programs, FFA leadership activities, and career and leadership development events to better serve the community through a school-based three-component agricultural education model. Prerequisite: Principles of Environmental Science

BUSINESS AND ECONOMICS

FOUNDATIONS OF FINANCE

12103

1 Credit

The level one course will equip students with foundational personal finance skills while introducing business technology and presentation tools that are necessary for 21st century success. Course themes include topics such as: how to earn and save money; how to manage money by being a wise consumer (creating and using a budget); how to manage bank accounts, investments, and credit; how to assess risks and use insurance; and how to address financial problems like identity theft and debt. Students will learn personal skills like teamwork, innovation and ethical decision making while also learning the basics around technology/tools that businesses use to stay productive. Students will have a culminating experience participating in a live (or virtual) simulation of JA Finance Park 2.0 at the JA of Delaware Campus in which they will design/plan their 'entire life budget.'

ENTREPRENEURSHIP, BUSINESS & LEADERSHIP CAPSTONE

12098

1 Credit

JA Company Program empowers high school students to fill a need or solve a problem in their community and teaches them practical skills required to conceptualize, capitalize, and manage their own business venture. Throughout the process of building their own company, students collaborate, make crucial business decisions, communicate with multiple stakeholders, and develop entrepreneurial knowledge and skills. Community volunteers and mentors provide real world guidance and experience to the student-led startup.

ESSENTIALS OF BUSINESS AND TECHNOLOGY

12055

1 Credit

In level two, students will build upon their personal finance skills developed during level one and begin to explore

themes more centric to the world of business including economics, banking services, employee benefits, business ethics, risk management, international business opportunities, innovation, marketing & accounting. Students will further demonstrate and expand upon their abilities to incorporate the use of presentation tools such as Microsoft Word, Excel, and PowerPoint - and the functionality/features appropriate within various business environments and scenarios.

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ARTICULATED CREDIT

APPLICATIONS OF ENTREPRENEURSHIP

12053

1 Credit + 3 or more College Credits

In level three, after accumulating knowledge and skills around personal finance and business, students will explore entrepreneurship and the basics of starting a business. This will include developing entrepreneurial abilities, identifying a business opportunity, creating a business plan, economics and the stages of business growth. Students will examine their personal skill set as it pertains to interpersonal communication, business writing & organizational communication skills. Students will be able to think critically, solve problems, and overcome challenges while also effectively communicating about performance and expectations with their peers and adult stakeholders.

CULINARY ARTS & HOSPITALITY

ADVANCED FOOD PRODUCTION & HOSPITALITY MANAGEMENT

FCS1600
1 Credit

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

Prerequisite: Fundamentals of Culinary Arts and Hospitality.

CULINARY ARTS CAPSTONE

FCS1700
1 Credit

This capstone course will put into practice the skills, procedures and processes learned in the previous three courses, fundamentals of culinary arts and hospitality management, advanced food production and hospitality management, and the culinary and hospitality professional. Students who elect to enroll in the Culinary Arts Capstone course will complete 120 hours of seat time in the course and as a part of the course, students will complete their 50 hours of immersion experience working with an Industry Partner on a research project. Students will receive credit for hours both from work in the classroom and outside of the classroom.

FUNDAMENTALS OF CULINARY ARTS & HOSPITALITY

FCS1500
1 Credit

This course provides an overview of the restaurant and hospitality industry and the importance of food safety and sanitation. Students have the opportunity to prepare a variety of foods and learn the equipment and techniques for a successful operation. Students are introduced to the commercial kitchen, including how

to use commercial food equipment in a safe and sanitary manner as well as proper preparation techniques including mise en place. The course acquaints the student with the scope and complexity of the hospitality industry and the importance of good management skills.

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ARTICULATED CREDIT

THE CULINARY & HOSPITALITY PROFESSIONAL

FCS1501

1 Credit + 3 College Credits

This course offers students the opportunity to refine employability skills such as leadership, accountability, teamwork, and responsibility. Students learn the role of accurate menu creation and design along with the critical thinking and problem solving skills to address real-life case studies while continuing to hone their culinary and management skills. Global cuisines and sustainability in the hospitality industry are incorporated. Diverse management styles are applied. Prerequisite: Advanced Food Production & Hospitality Management

EDUCATION AND LEADERSHIP DEVELOPMENT

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

AP PSYCHOLOGY

04256

1 Credit + 3 College Credits

In this course, students investigate the scientific theories of human behavior and their application. They explore the anatomy of the brain discovering why people behave the way they do. Students taking this course are expected to take the AP Psychology exam.

ARTICULATED CREDIT

CREATING ENVIRONMENTS FOR LEARNING

ECE214

1 Credit + 3 College Credits

Students learn concepts and strategies for creating a positive learning environment that meets the academic, social, and emotional needs of a diverse classroom. Students practice skills for organizing the classroom effectively, engaging and motivating students, building positive relationships, promoting self-regulation and social-emotional learning (SEL), developing and teaching rules and behavioral expectations, cultivating a growth mindset, and managing individual and group behaviors. Students develop a trauma-informed and culturally competent personal classroom management philosophy and comprehensive MTSS and PBS plan. Furthermore, candidates design tools to increase collaboration and communication with families, communities, and administrators. Lastly, candidates analyze their own beliefs, philosophies, and practices as well as self-reflect and plan to

EDUCATION AND LEADERSHIP DEVELOPMENT

promote their well-being while reducing burnout and stress.

PRINCIPLES OF CURRICULUM AND LITERATURE

19155

1 Credit + 6 College Credits

In this course, students develop a solid and comprehensive understanding of research-based instructional practices through literacy. Specifically, instruction includes a multi-componential instructional focus surrounding the six pillars of the science of reading instruction: Oral Language, Phonemic Awareness, Fluency, Vocabulary and Comprehension. Teacher candidates will develop an awareness of social and cultural language differences, including language acquisition of young children across cultural and linguistic groups. This course also includes a study of literature for children, ages birth through Grade 2 and is designed to introduce teacher candidates to a wide range of genres including classics and contemporary materials. The course emphasizes the development of knowledge of literature and how to effectively integrate that knowledge into the curriculum. Particular attention is given to diverse representations in children's literature and the importance that diversity and equitable representation in children's literature plays in social and emotional development. In this course, teacher candidates utilize their knowledge of the major components of literacy and learner development to create literacy-rich learning environments with attention to student development, culture and families.

LEADERSHIP AND COLLABORATION

EDUC318

1 Credit + 3 College Credits

This course examines cultural and ethnic differences in values and their implication on classroom instruction and curriculum development. Also included in the examination of current research findings concerning

cultural perceptions, practices and communication styles for teaching cultural and ethnic differences for program planning in classrooms, schools and school districts will be studied.

HEALTH SCIENCES

ESSENTIALS OF HEALTH CAREERS

140020

1 Credit

This course is for juniors and above and offers students the opportunity to become effective and efficient healthcare providers as they develop a working knowledge of various healthcare opportunities. As students identify the various areas of Allied Health, they will discuss the potential of education, advancement, employment opportunities, employment sites, and financial rewards. Students will focus on careers in the healthcare field by applying classroom/lab knowledge and skills to clinical settings as they participate in direct or simulated patient care. Students participate in CPR/First Aid certification through the American Heart Association. This course reinforces and builds upon medical terminology skills learned in the Fundamentals of Health Sciences (FHS) course and is a prerequisite to the AP Anatomy & Physiology I (A&P) course for students in the Allied Health Pathway. Further, this course will be offered as an articulated course with DTCC (HLS100 – Intro to Health Careers). Students participate in CPR/First Aid certification through the American Heart Association. Upon successful completion of the course (75% or better), students will receive one college credit from DTCC. Prerequisite: Fundamentals of Health Sciences

ESSENTIALS OF PUBLIC & COMMUNITY HEALTH

08053

1 Credit

This course introduces students to population health and examines the interdisciplinary approach to social and behavioral influences. Students learn the history of public and community health and the multi-disciplinary approach to health, which includes examining various organizations and healthcare delivery systems. Students examine complex public health problems and are exposed to major theories of disease etiology and intervention.

HEALTH SCIENCES

Additionally, students explore public health issues related to epidemiology, mental health, disabilities, and substance abuse. Students participate in Mental Health First Aid Certification through the National Council for Behavioral Health (NCBH) and continue preparation for the National Health Science Assessment. Prerequisite: Fundamentals of Health Sciences

INTRO TO HEALTH CAREERS

14002

1 Credit

This course provides students with an orientation to the healthcare industry and helps to refine their healthcare-related knowledge and skills. Topics covered usually include (but are not limited to) an overview of health care delivery; patient care, including assessment of vital signs, body mechanics, and diet; anatomy and physiology; identification and use of medical equipment and supplies; medical terminology; hygiene and disease prevention; first aid and CPR procedures; laboratory procedures; and ethical and legal responsibilities.

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ARTICULATED CREDIT

ESSENTIALS OF ANATOMY AND PHYSIOLOGY

BIO110

1 Credit + 3 College Credits

This course includes structure and function of the human body with an emphasis on gross anatomy as well as all organ systems and their relationship to homeostasis. Coordinated laboratory activities are an integral part of this course. This course will be offered as an articulated course with Delaware Technical Community College (BIO110-

Essentials of Anatomy and Physiology) Upon successful completion of the course (75% or better), students will receive three college credits from Delaware Technical Community College.

PERSONAL WELLNESS

08057

1 Credit + 3 College Credits

This course introduces students to the importance of wellness concerning the Six Dimensions of Wellness, which include physical, social, intellectual, spiritual, emotional, and occupational wellness. Additionally, students learn basic nutritional requirements for healthy individuals, how exercise affects health, and methods of disease prevention. Students explore factors that predispose individuals to unhealthy behaviors as well as key components of health behavior change. Further, this course is offered as an articulated course through Wilmington University (HLT 321- Personal Wellness). At the completion of the program of study, students complete the National Consortium for Health Science Education (NCHSE) National Health Science Assessment. Prerequisite: Essentials of Public & Community Health

FUNDAMENTALS OF HEALTH SCIENCES

141540

1 Credit + 3 College Credits

This course is for sophomores and above and introduces students to careers in healthcare and is a prerequisite to the other Health Science Pathway courses. This course focuses on medical terminology which includes Greek and Latin prefixes, suffixes, roots, abbreviations, names of diseases and surgeries related to hospital services and allied health specialties. In addition, students explore the National Consortium Health for Science Education (NCHSE) Health Science Standards and entry level healthcare skills. Students begin preparation for the NCHSE National Health Science Assessment and develop

skills focusing on the language of medicine. This course will be offered as an articulated course with DTCC (BIO100-Medical Terminology) Upon successful completion of the course (75% or better), students will receive three college credits from Delaware Technical Community College. Prerequisite: Intro to Health Careers

DUAL ENROLLMENT COURSE

When students take a Dual Enrollment course as a requirement within a pathway, the district covers the cost of the course. When a student takes a Dual Enrollment course as an elective or optional course, the student is responsible for the cost of the course.

DELAWARE TECH COMMUNITY COLLEGE

DTCC dual enrollment is dependent upon an SAT EBRW score of 480 or higher, 3.0 GPA or successful completion of Foundations of English.

ANATOMY AND PHYSIOLOGY

03910

1 Credit + 3 College Credits

This course introduces students to anatomy and physiology of humans including the structure and function of cells, tissues, integumentary, skeletal, muscular, nervous, and endocrine systems. Coordinated laboratory experiments are an integral part of this course. Students learn the physiology of each body system, as well as how to investigate common diseases, disorders, and emerging diseases. The prevention of disease, diagnosis, and treatment are addressed. This is the capstone senior year for students in the Allied Health pathway. There is an additional \$65 lab manual fee due the first week of class.

MILITARY AND CIVIC LEADERSHIP

CRIMINAL JUSTICE

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ARTICULATED CREDIT

INTRODUCTION TO CRIMINAL JUSTICE

CRJ101

1 Credit + 3 College Credits

This course is a survey of agencies and processes involved in the administration of Criminal Justice. The survey includes a review of the functions of the legislature, police, prosecutor, courts and the correctional system. Problems of law enforcement in a democratic society will be discussed. This course will tie together all components of Criminal Justice and include relationships with both juvenile and adult offenders.

PRINCIPLES OF CRIMINOLOGY

CRJ205

1 Credit + 3 College Credits

Principles of Criminology is an introductory course in the study of crime and criminal behavior that examines various theories of crime causation, profiles of criminal behavior systems, societal reactions to crime, and structures of criminological methods of inquiry. Prerequisite: Introduction to Criminal Justice

TECHNOLOGY APPLICATIONS IN CRIMINAL JUSTICE

CRJ350

1 Credit + 3 College Credits

This Capstone course provides an introduction to the technology used in the criminal justice system including, the basic principles of computers with respect to police information

systems, Interagency Criminal Justice Information, the National Law Enforcement Telecommunications Systems, National Criminal Justice Computer System, (FBI) National Incident-Based Reporting System, and a variety of databases used in the criminal justice system. The legal and ethical considerations will be discussed. Criminal justice information system databases will be reviewed for application to a variety of issues.

Prerequisite: Principles of Criminology

JOBS FOR DELAWARE GRADUATES

JDG I

JDG9401

1 Credit

Students will review study skills, personal grooming, goal setting, decision making, choosing a career path, maintaining a positive attitude, coping with change, values clarification, image assessment, enhancing necessary workplace success skills, group dynamics, conflict resolution, and life skills math.

JDG II

JDG9402

1 Credit

Coursework includes problem-solving, teamwork, goal setting, money management, workplace math, courtesy and respect, customer service, workplace diversity, writing job applications, career interests, entrepreneurship, leadership and understanding insurance.

JDG III

JDG403

1 Credit

Participants learn about career vocabulary, resume writing, sources of jobs, telephone skills, listening skills, stress management, personal budgeting, occupational preferences, career manual, verbal presentations, critical thinking, constructive criticism and professional ethics.

JDG IV

JDG9404

1 Credit

Students receive instruction in time management, cover letters, choosing career attire, employment interview, job survival, performance evaluations, business etiquette, employee rights, pay and benefits, financial planning, career travel, writing a letter of resignation, and career portfolio. Each senior will develop a Career Portfolio that includes a resume, references, a sample job application and commendations. JDG IV may be the student's Capstone course ONLY if JDG is the student's Pathway (the student's third or fourth year of JDG classes) and the counselor approves it.

AEROSPACE SCIENCE I (MHS)

ROTC7006

1 Credit

This foundation course explores the heritage of flight, the development of air power, and the role of military aerospace forces in our society. Leadership concepts include an introduction to the ROTC mission, customs and courtesies; proper wear of the uniform; organization; basic drill and ceremonies; the meaning and purpose of attitude, discipline, and respect; principles of good citizenship, personal standards, values, and ethics; leadership and management techniques; organizational skills; good study habits, time management and personal development; and health, drug, and alcohol abuse awareness.

AEROSPACE SCIENCE II (MHS)

ROTC7011

1 Credit

Students gain an in-depth knowledge of the aerospace environment; human requirements of flight; principles of flight, propulsion & navigation; and world cultural studies. Leadership concepts stress oral, written and listening communication skills development; understanding individual & group behavior; leadership theory; and advanced drill and ceremonies. Students also learn practical applications in management by applying for positions of responsibility within the corps. Prerequisite: Aerospace I

AEROSPACE SCIENCE III (MHS)

ROTC7012

1 Credit

This course explores aircrew survival; space propulsion systems; space exploration; the historical significance of a civilian/military venture into space; and the fundamentals of rocketry. Leadership concepts include preparation for life after high school; the importance of obtaining advanced degrees or skills; job search preparations; financial planning; career opportunities; and advanced drill and ceremonies. Students demonstrate

increased leadership and management responsibilities through the various staff positions within the corps. Prerequisite: Aerospace Science II

AEROSPACE SCIENCE IV (MHS) LEADERSHIP & MANAGEMENT

ROTC7013

1 Credit

Students apply the leadership and management principles learned in previous courses by managing the cadet corps. They establish policies & guidelines for the effective planning, organizing, coordinating, and directing all aspects of the corps in a proactive matter. Problem solving, decision-making, negotiating, managerial, communication and organizational skills are honed. Students will also assist instructors in leadership & academic training. The course is restricted to senior (4th year) cadets and 3rd year cadets who are selected for a key leadership role within the unit through an interview process. Prerequisite: Aerospace Science III

MILITARY SCIENCE I (AHS & OHS)

ROTC9100

1 Credit

This foundation course explores the heritage of the U.S. Army and its role in the growth of our nation. Leadership concepts include an introduction to the Army JROTC mission and core values.

MILITARY SCIENCE II (AHS & OHS)

ROTC9101

1 Credit

Students gain advanced knowledge of leadership principles, values and behaviors. Leadership theory and application concepts, world cultures, higher-order critical thinking skills and strategies are emphasized. Students learn practical applications in management by applying for positions of responsibility within the Army JROTC. Prerequisite: Military Science I

MILITARY SCIENCE III (AHS & OHS)

ROTC9102

1 Credit

This course explores the historical significance of national military and nonmilitary service. This includes the role of each branch of the U.S. Armed Forces, the Merchant Marines, the Peace Corps and other organizations within our federal government. Leadership concepts include preparation for life after high school; the importance of obtaining advanced degrees or skills; job search preparations; financial planning; career opportunities; and advanced drill and ceremonies. Students demonstrate increased leadership and management responsibilities through the various staff positions within the corps. Prerequisite: Military Science II

MILITARY SCIENCE IV (AHS & OHS) LEADERSHIP & MANAGEMENT

ROTC9103

1 Credit

Students apply the leadership and management principles learned in previous courses by managing the cadet corps. They establish policies and guidelines to effectively plan, organize, coordinate and direct all aspects of the corps. Problem-solving, decision-making, negotiating, managerial, communication and organizational skills are honed. Students will also assist instructors in leadership and academic training. Prerequisite: Military Science III

LIFE-CENTERED CAREER EDUCATION

LIFE SKILLS I, II, III, IV

CFC100, CFC101, CFC102, CFC103

This course will allow students to access skills to become independent members of the community. This course provides the opportunity to practice home living tasks, decision-making skills, and problem-solving. Students will progress through each level (I-IV) based on mastery of curricular expectations. Navigating and accessing community resources are integral to the LCCE Pathway. Students will matriculate through this alternative program and will not earn course credits. Students will matriculate through this alternative program and will not earn course credits.

VOCATIONAL STUDIES I, II, III, IV

CFC200, CFC201, CFC202, CFC203

This course will allow students to access a variety of prevocational skills such as interviewing, completing job applications, matching skill/interest to jobs, and workplace social skills. Students will progress through each level (I-IV) based on mastery of curricular expectations. The goal is to increase students' chances of obtaining and maintaining employment. Students will matriculate through this alternative program and will not earn course credits. Students will matriculate through this alternative program and will not earn course credits.

WORK STUDIES I, II, III, IV

CFC300, CFC301, CFC 302, CFC 303

This course will allow students to be placed at on campus work sites where they acquire a variety of vocational skills such as customer service, workplace math, teamwork, time on task, endurance, and coping with change. . Students will progress through each level (I-IV) based on mastery of curricular expectations. Students will matriculate through this alternative program and will not earn course credits. Students will matriculate through this alternative program and will not earn course credits.

COOPERATIVE WORK STUDIES

CFC400, CFC401, CFC402, CFC403

This course is the capstone to the LCCE Pathway, and students must complete the vocational and work studies coursework as a prerequisite. Students are placed in community based internships working with the District Job Coach. Students will participate in community internships and job shadow placements by applying vocational skills learned previously in their work studies and vocational studies courses. Students will receive onsite job training in diversified occupations. Students will matriculate through this alternative program and will not earn course credits. Students will matriculate through this alternative program and will not earn course credits.

PERFORMING AND DESIGN ARTS

ADVANCED CHORUS

05210

1 Credit

Advanced Chorus is an auditioned vocal ensemble. A variety of 4 or more part vocal music will be performed from all genres. Training will center on music literacy and healthy vocal production. The ability to match pitch is required. Several out-of-school performances will be required during the year.

Prerequisite: Acceptance into this course is conditional upon the outcome of an audition with the choir director.

CERAMICS AND SCULPTURE I

05159

1 Credit

This course develops the three-dimensional art techniques through hand building with clay and papier Mache. Study includes three-dimensional composition and glazing techniques. Emphasis will be placed on creating artwork that fits contextually with pottery created in various cultures and time periods. \$10 materials fee.

Prerequisite: Foundations of Art

CERAMICS & SCULPTURE II

05259

1 Credit

This course further develops the 3-dimensional art techniques through wheel thrown pottery, plaster sculpture, and mixed media. Topics of study include artist research, critique methods, and artist symbolism.

Emphasis will be placed on creating a personal style. \$10 materials fee.

Prerequisite: Foundations of Art, Ceramics and Sculpture I

CHORUS

05110

1 Credit

This beginner-level class is designed for singers with limited part-singing experience or those who do not wish to audition for advanced chorus. Training centers on introducing music literacy and healthy vocal production. The ability to match pitch is required.

PERFORMING AND DESIGN ARTS

Several out of school performances will be required during the year.

CONCERT BAND

05102

1 Credit

(All incoming 9th grade students wishing to take band should sign up for this course) Concert band emphasizes coordination of brass, woodwind, and percussion instruments into a large ensemble for public performance. In addition to the band class scheduled during the day, students are expected to attend after school rehearsals and performances as part of their grade requirements. Concert band members are eligible for participation in Delaware Music Education Association (DMEA) events.

Prerequisite: Prior experience in Middle School or High School Band.

DIGITAL COMMUNICATION CAPSTONE

11998

1 Credit

This Capstone course engages students to produce digital media and design work for school and community-based partners. Students will employ appropriate Adobe Suite software and design skills to achieve the desired outcome for each client. The production of media and design components from all courses will be showcased for clients and partners through the completion of a capstone cumulative professional portfolio.

DRAWING AND PAINTING I

05155

1 Credit

This course develops two dimensional drawing and painting skills through the use of various observational drawing techniques, basic acrylic painting techniques, and expressive mark-making. Broad topics include the fundamentals of color theory, linear perspective, objective critiquing methods, along with the use of symbolism to establish overall mood and message. Emphasis will be placed

on exploring various media and techniques while analyzing works of art and artistic movements. \$10 materials fee.

Prerequisite: Foundations of Art

DRAWING AND PAINTING II

05156

1 Credit

This course continues to develop two dimensional drawing and painting techniques while developing individual artistic voice through investigation. Broad topics include the development of advanced painting techniques, color theory, art analysis, objective critiquing strategies, and researching careers in the visual art. Emphasis will be placed on creating a personal style through sustained investigation of artistic characteristics and media; leading to the development of a body of work that can be further explored in AP Studio Art. \$10 materials fee.

Prerequisite: Drawing and Painting I

FOUNDATIONS OF ART

05195

1 Credit

This course is the fundamental art studio class. It emphasizes the elements of art and principles of design through experimentation with two and three dimensional art experiences. Topics include art vocabulary, critique methods and artist research. Emphasis will be placed on introducing students to various art media that leads to a Pathway of Drawing and Painting, Sculpture and Ceramics, or a combination of art courses. \$10 materials fee

FUNDAMENTALS OF ACTING I

050551

1 Credit

This beginner-level course is designed to provide students with a basic understanding of theatrical performance and drama strategies. Students will participate in a variety of games, exercises, and activities that will help them become aware

of how to use their body and voice, and empower them to become more comfortable in public settings. Students will be introduced to several genres of published dramatic pieces including, but not limited to: full-length plays, one-acts, scenes, and monologues. Students will also be introduced to basic character development strategies. Improvisation will be a major emphasis. Students will be required to participate in at least one public performance. It is strongly encouraged that the students attend professional and non-professional performances throughout the school year.

FUNDAMENTALS OF ACTING II

050552

1 Credit

In this course students will strengthen their understanding of theatrical performance. They will study and perform scenes and monologues from modern and contemporary plays. The focus of this course will be character development, and forming an increasing awareness of vocal and physical techniques. Students will be required to participate in at least one public performance. It is strongly encouraged that students attend professional performances throughout the year.

Prerequisite: Fundamentals of Acting I

FUNDAMENTALS OF ACTING III

050553

1 Credit

In this intermediate course students will strengthen their understanding of theatrical performance. Students will study and perform scenes and monologues from modern and contemporary plays. The focus of this course will be character development, and forming an increasing awareness of vocal and physical techniques. They are required to participate in at least one public performance. It is strongly encouraged that students attend professional performances throughout the year.

Prerequisite: Fundamentals of Acting II

PERFORMING AND DESIGN ARTS

FUNDAMENTALS OF ACTING IV

050554

1 Credit

This course is taught in combination with Fundamentals of Acting III. Intended for students who successfully complete Acting III and wish to pursue further study in preparation for high education pursuits in the performing arts.

Prerequisite: Fundamentals of Acting III

INTRODUCTION TO GUITAR

05108

1 Credit

This course is for beginners who want to learn the basics of playing the guitar and reading guitar music. Topics include: learning chords, melody guitar, power chords, scales/arpeggios, and reading tablature. No experience needed. Students must provide their own guitar.

MARCHING BAND

05103

1 Credit

Marching Band is a performance-based ensemble that performs at football games and band competitions. Students will be required to attend summer rehearsals and band camp, as well as after school, evening, and weekend rehearsals and performances.

Prerequisite: Previous experience in 7th Grade, 8th Grade, or HS Band.

MUSIC TECHNOLOGY

(MHS & OHS ONLY)

05124

1 Credit

Students will learn to create music using the computer. This course allows both traditional and non-traditional music students (i.e. those not in a performance ensemble) to pursue music in a 21st Century setting. Students will identify/classify theoretical elements and structural elements of music as it applies to composition.

MUSICAL THEATRE

PERFORMANCE/THEATRE DANCE

05060

1 Credit

The three main components of musical theatre are singing, acting and dancing. This course serves as a study of each of these components. Students will be expected to perform individually as well as in groups and must demonstrate a willingness to take direction, take risks, and step out of their comfort zone. The ability to sing on pitch, a strong sense of rhythm, a high level of physical endurance and daily participation in the rehearsal process is required. Students will perform solos, duets, and ensemble pieces; analyze, memorize and perform scenes; build a repertoire of dance movements from a variety of styles; and apply movements toward the creation of an original piece of choreography. They are required to participate in at least one public performance. This course can be taken multiple times for credit. Appears on the transcript as Level I-IV
Prerequisite: Fundamentals of Acting I or Instructor Approval

MUSIC THEORY I

05113

1 Credit

Music Theory I introduces students to the basics of music theory. The course is designed to help the beginning music student, or students with limited background in music theory, study the basic elements of music through creating, performing, responding, and connecting. Topics include notation, rhythm, scales, key signatures, intervals, chords, harmonization, beginning level melodic and rhythm dictation, ear-training, and sight singing skills.

PERCUSSION ENSEMBLE (MHS & OHS ONLY)

PA9514

1 Credit

A performance-based class. Students must have a good understanding of musical notation. They will learn

performance techniques for most percussion instruments and develop an understanding of basic music theory concepts. Students are required to perform in concerts and events outside of the regular school day.

PHILHARMONIC ORCHESTRA

05120

1 Credit

A performance-based class wherein the students study a wide variety of musical styles and develop advanced technical proficiency on their instruments: violin, viola, cello, or double bass. In addition, students will develop ear training and musicality to supplement their playing in the ensemble. They perform in a variety of ensemble situations and some external activities, such as concerts, may be required.

Prerequisites: Audition or teacher recommendation.

PIANO I

05107

1 Credit

Students will learn how to play the piano. The major focus in this course includes, but are not limited to, correct piano technique, music theory, scales, and short compositions. No prior experience is necessary.

PIANO II

051072

1 Credit

Students will continue their study of piano. Major focuses in this course include, but are not limited to, correct piano technique, music theory, scales & compositions, and piano repertoire. Prior experience in piano is necessary.
Prerequisite: Audition or Piano I

STAGECRAFT I

050561

1 Credit

Students enrolled in this course will be introduced to all major aspects of theatrical production. Units of study may include: introduction to the theatre, costume design, set design, stage management, front of house

and scenic painting. Students will be expected to help set-up school events and maintain the theatre—this is a hands-on course. They must participate in at least one public performance and will be required to participate in the technical side of a public performance which will require several hours after the school day. It is strongly encouraged that students attend professional performances throughout the school year.

STAGECRAFT II

050562

1 Credit

Students enrolled in this course will continue their study of all major aspects of theatrical production. Units of study may include: costume design, scenic design, scenic painting, set design, stage management, lighting design, front-of-house management, etc. Students will be required to participate on the technical crew of one of the major school productions. Prerequisite: Stagecraft I

STAGECRAFT III

050563

1 Credit

This course is taught in combination with Stagecraft II. Students who wish to further their study of technical theatre and have the opportunity to focus on specific areas of design are encouraged to take this higher-level course. Prerequisite: Stagecraft II

STAGECRAFT IV

050564

1 Credit

This course is taught in combination with Stagecraft II and III. Students who wish to further their study of technical theatre and have the opportunity to focus on specific areas of design are encouraged to take this higher-level course. Prerequisite: Stagecraft III

WIND ENSEMBLE

PA9515

1 Credit

An advanced level of instrumental repertoire is rehearsed and performed. In addition to the wind ensemble class scheduled during the day, students are expected to attend after school rehearsals and performances as part of their grade requirements. Wind ensemble members are eligible for participation in Delaware Music Education Association (DMEA) events. Prerequisite: Acceptance into this course is conditional upon the outcome of an audition with the band director.

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ADVANCED PLACEMENT

AP ART HISTORY

05153

1 Credit + 3 College Credits

This rigorous course provides the same benefits to high school students as those of an introductory college course. The paintings, sculptures, and architecture of ancient art styles through contemporary art styles will be placed in historical and cultural contexts. Students are required to take the College Board exam for consideration in receiving advanced placement and/or credits at the college level.

AP ART AND DESIGN

051720

1 Credit + 3 College Credits

Advanced Placement Studio Art is the most rigorous art course offered and is considered the Capstone course of the Visual Arts Pathway. This course provides the serious art student with the challenge of creating a body of work guided by inquiry while placing

a heavy emphasis on the sustained investigation of ideas, processes, and materials. Students choose between a drawing (fine art), 2D or 3D portfolio that demonstrates:

- 1) quality through a mastery of drawing/painting technical skills, compositional and design skills, or 3D spatial skill sets, and
- 2) the ability to create a body of work guided by inquiry through a synthesis of ideas, processes and materials that captures the artistic practices of research, reflection and revision.
- 3) Written evidence that effectively communicates how the student showed evidence of practice, experimentation, and revision that was guided by an identified inquiry is used.

AP Studio exams consist of submitting digital images of a portfolio, including images showing evidence of investigation, to College Board; where it will be scored for consideration in receiving advanced placement and/or credits at the college level. \$10 materials fee.

Prerequisites: Drawing & Painting I and Drawing & Painting II

AP MUSIC THEORY

05114

1 Credit + 3 College Credits

This class features fast-paced, detailed instruction in the fundamentals of theory, sight-singing and ear training. It is meant to take the place of a freshman-level college music theory course. Topics include harmonic analysis, composition, solfege, sight singing in Major and minor keys, melodic and harmonic dictation, and study of the standard western classical repertoire. Students must read musical notation fluently to register. Prerequisites: Music Theory I, Class Piano, or a high school performing ensemble and successful audition before a committee.

ARTICULATED CREDIT**APPLICATIONS OF DIGITAL DESIGN****11153****1 Credit + 3 College Credits**

In this course, students are taught the basics of digital video production, video editing, and broadcasting of digital videos, vector image manipulation, editing, illustration, publishing, and delivery of digital products. While working in this course, students will be developing client based design work through district and community partnerships to prepare an entry level professional portfolio.

Prerequisite: Processes of Digital Production

FOUNDATIONS OF DIGITAL DESIGN**11002****1 Credit + 3 College Credits**

In this course, students are introduced to the foundational principles, techniques, and skills of visual communication. Students will learn the elements and principles of design, color theory, typography, and image manipulation techniques along with the communication skills required to work within the media industry and client based realm.

PROCESSES OF DIGITAL PRODUCTION**11990****1 Credit + 3 College Credits**

In this course, students are taught the basics of raster image manipulation, editing, software application, publishing, digital media literacy, HTML coding, web development tools, and delivery of digital products. Prerequisite: Foundations of Digital Design

DUAL ENROLLMENT COURSE

When students take a Dual Enrollment course as a requirement within a Pathway, the district covers the cost of the course. When a student takes a Dual Enrollment course as an elective or optional course, the student is responsible for the cost of the course.

WILMINGTON UNIVERSITY**MUS 101 MUSIC APPRECIATION****PA9600****1 Credit + 3 College Credits**

This course increases the student's comprehension and perception of music. Each developmental period will be discussed (i.e. Middle Ages, Renaissance, Baroque, etc.) in terms of the historical background, social influences, characteristics, styles, composers, representative compositions and performance media.

COMPUTER SCIENCE ESSENTIALS**CS405****1 Credit**

With emphasis on computational thinking and collaboration, this course provides an excellent entry point for students to begin or continue the PLTW Computer Science K-12 experience. Computer Science Essentials will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence.

ENGINEERING ESSENTIALS**21006****1 Credit**

Engineering Essentials is a full-year course designed to be a high school student's first exposure to the PLTW Engineering program and is appropriate for students in grades 9-12. In Engineering Essentials, students explore the work of engineers and their role in the design and development of solutions to real-world problems. The course introduces students to engineering concepts that are applicable across multiple engineering disciplines and empowers them to build technical skills through the use of a variety of engineering tools, such as geographic information systems (GIS), 3-D solid modeling software, and prototyping equipment. Students learn and apply the engineering design process to develop mechanical, electronic, process, and logistical solutions to relevant problems across a variety of industry sectors, including health care, public service, and product development and manufacturing.

FORENSIC SCIENCE I**03214****1 Credit**

Forensic Science is designed to incorporate the scientific concepts and techniques utilized in the field of forensics. Course units include observational skills, crime scene analysis, evidence gathering and processing, hair, fiber and textile

analysis, DNA profiling, fingerprint analysis, blood spatter and forensic anthropology. The course concludes with a death scene investigation that allows students to embody the role of a forensic investigator and ultimately put the skills learned throughout the course into cumulative practice. Evidence-based reasoning is a cornerstone of the course and will be employed using an activity-based approach to frame each curricular unit.

Prerequisite: Biology I, Chemistry I, Geometry

Prerequisite OR concurrent course: Anatomy and Physiology I

FORENSIC SCIENCE II

03215

1 Credit

Forensic Science II is designed to incorporate the scientific concepts and techniques utilized in the field of forensics. Course units include crime scene analysis, physical/biological evidence gathering and processing, firearms/explosives, toxicology, and communication analysis. The course concludes with a death scene investigation that allows students to embody the role of a forensic investigator and ultimately put the skills learned throughout the course into cumulative practice. Evidence-based reasoning is a cornerstone of the course and will be employed using an activity-based approach to frame each curricular unit. Capturing evidence via photographic or video-graphic means is an essential component of crime scene investigation. As such, students will be required to photo and/or videotape themselves and each other for various assignments and assessments in this course.

Prerequisite: Forensic Science I

INTRODUCTION TO ENGINEERING DESIGN

21017

1 Credit

This course emphasizes design and product development. Students use computer software to produce,

analyze, and evaluate mathematical models and project solutions. Students study design concepts, such as form and function, then use state-of-the-art technology to translate conceptual design into reproducible products.

Prerequisite: Algebra I, Engineering Essentials

PRINCIPLES OF ENGINEERING

21018

1 Credit

This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems through theory and practical hands-on experiences. Students address the emerging social and political consequences of technological change.

Prerequisite: Intro to Engineering

SCIENTIFIC RESEARCH AND DESIGN

03212

1 Credit

The capstone course represents the culmination of the Science Pathway. This course focuses on technical scientific writing, laboratory skills, robust data analysis, and the development and implementation of effective research practices. The final product for the course will be an independent research project on a topic of the student's choosing. All students will be expected to present their findings as part of the Appoquinimink School District STEM Fair.

Prerequisite: Students will have completed a minimum of 6 Science credits.

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ADVANCED PLACEMENT

AP COMPUTER SCIENCE PRINCIPLES

10019

1 Credit + 3 College Credits

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

Prerequisite: Computer Science Essentials. Students who successfully complete this course are expected to take the AP Computer Science Principles exam.

AP COMPUTER SCIENCE A

10157

1 Credit + 3 College Credits

Computer Science A focuses on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. Students who successfully complete this course are expected to take the AP Computer

STEM

Science A exam in the spring.
Prerequisite: AP Computer Science Principles

ARTICULATED CREDIT CYBERSECURITY

CS505

1 Credit + 3 College Credits

This Capstone course introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely. This is the capstone senior year course for students in the Computer Science Pathway.

Prerequisite: AP Computer Science A

ENGINEERING DESIGN AND DEVELOPMENT

21025

1 Credit + 3 College Credits

This course enables students to apply what they have learned in academic and Engineering courses to complete a challenging and self-directed project. Students work in teams to design and build solutions to authentic engineering problems. An engineer or professional from the school's partnership team will mentor each student team. Students document all work in an engineering journal and make progress reports to their peers, industry-mentor, and instructor. At the end of the course, teams present their research paper and defend their projects to a panel of engineers, business leaders, and faculty from engineering colleges for professional review and feedback.

This course equips students with the independent study skills that they will need in post-secondary education and careers in engineering and engineering technology. This is the capstone senior year course for students in the Engineering Pathway.

Prerequisite: Principles of Engineering

SKILLED & TECHNICAL TRADES

FOUNDATIONS OF CONSTRUCTION

17013

2 Credits

This course will provide students with basic knowledge and understanding of the construction industry. The students will learn how to safely operate hand and power tools, as well as become OSHA Construction Safety Certified. Other topics include an overview of the construction industry and heavy equipment operation, construction careers, measurements, print reading, and construction math (including square and cubic calculations).

ADVANCED STANDING COURSES

Courses listed in the highlighted boxes are eligible to earn college credit. Students may need to meet additional criteria to earn the college, including a minimum grade in the course or an eligible score on an AP exam. Students should seek guidance from their school counselor with any questions or for additional information.

ARTICULATED CREDIT

INTRODUCTION TO MACHINERY OPERATION

17023

2 Credits + 3 College Credits

This course will utilize technology to allow the safe practice of operating heavy equipment using simulators. Students will learn to read civil drawings along with added print reading practice. Other topics include equipment identification and safe operation, earth moving, and grading techniques.

Prerequisite: Foundations of Construction

SKILLED & TECHNICAL TRADES

ADVANCED MACHINERY OPERATOR

17033

2 Credits + 3 College Credits

This course will provide students with ample live "seat time" on various pieces of heavy equipment. This will include (but is not limited to) a backhoe, excavator, bulldozer, skid-steer, and forklift. Students will also earn the ATSSA flagger certification and forklift safety certificate.

Prerequisite: Intro to Machinery Operation

CONSTRUCTION CAPSTONE

17048

2 Credits + 3 College Credits

The Construction Capstone course provides work experience in a field related to construction. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

Prerequisite: Advanced Machinery Operator

ADDITIONAL COURSES

COMPASS

22151

1 Credit

Students in the Appoquinimink School District are required to complete a Capstone Project as part of their graduation requirement. Collection of Portfolio artifacts begin in the 9th grade and continue through the completion of their Senior Capstone Project. In addition, students are required to complete their Student Success Plan (SSP) as part of the credit. The SSP documents the student's post-secondary planning that begins in middle school and culminates in the Senior year.

DRIVERS EDUCATION

EL5054

0.5 Credit

Classroom study precedes driving lab. All students must be academically eligible to participate in the "on the road" training portion of this course. Only grade 10 students who meet the criteria may be enrolled. Students are scheduled according to the date of their sixteenth birthday and academic record.

GENE EDITING

14990

1 Credit

The Gene Editing course engages students in open-ended problem-solving. Topics including DNA, disease and gene therapy will be studied. While exploring the gene-editing process, students will acquire important knowledge and laboratory skills providing insight into the roles of scientists and medical doctors in the career fields of genetics, forensics, and education. Students will read, "The Immortal Life of Henrietta Lacks," and discuss legal, ethical, trust issues, and learn about healthcare disparities in minority populations.

HEALTH

HPE7003

0.5 Credit

This course is designed to provide

students with an opportunity to learn about the physical, mental/emotional, and social aspects of health. An emphasis is placed on the importance of making healthy decisions that will lead to a higher quality of life. Course information is presented in a practical manner incorporating current health trends & concerns. Topics covered include mental health, nutrition and physical activity, alcohol, tobacco, and other drugs, and consent & sexuality education.

PHYSICAL EDUCATION

HPE7001

0.5 Credit

Fitness activities skill development and concepts of team play are emphasized in this course. Students concentrate on developing a personal fitness plan, lifetime sports, and athletic skill acquisition.

SPORT AND MEDIA RELATIONS

SPM306

1 Credit

This course focuses on the application of media relations and communications in a sport organization. Students learn how to utilize the various broadcast, print, and social media and how they are vital to the success of the sport organization. Students will critique media guides and conduct a mock press conference, which will include press releases, media advisories, and media packets.

Prerequisite: Sport Management I

SPORT MANAGEMENT I

SPM305

1 Credit

Sports are more than just the game seen on television or in the stadium. Students interested in sports management should be aware of the various occupations in the sports industry. This course gives an overview of the responsibilities of those involved in the sports industry, as well as how general management principles apply to the industry.

WORK-BASED LEARNING

PRACTICUM

22998

29999

1 Credit

The WBL immersion experience allows students to apply academic, technical and employability skills to real-world work in partnership with employers. Through meaningful work experience aligned with a given career Pathway, students deepen interpersonal and professional skills necessary to successfully pursue postsecondary education and career goals. Students will document their abilities, achievements, and work experiences through a career readiness portfolio.



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Our mission is to provide a world-class education where each of our students gains the knowledge, understanding, skills, and attitudes needed to contribute and flourish in a global society.

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Appoquinimink School District

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