



HIGH SCHOOL

COURSE CATALOG | PATHWAY GUIDE

CURRENT SCHOOL YEAR 2019-2020 • GRADUATION CLASS OF 2023



Appoquinimink School District
THE WORLD IS OUR CAMPUS



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

- 27 Pathways
- 27 AP courses
- 16 dual enrollment courses articulated with 5 colleges and universities
- 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

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 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 Al Volpe, 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 the disability discrimination laws. Title IX Contact Stan Spoor, Director of Personnel, 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 which would be prohibited by Title IX.

Schools and Pathways



SCHOOL OF AGRICULTURE AND NATURAL RESOURCES

6

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



SCHOOL OF BUSINESS AND ECONOMICS

12

- NAF Academy of Finance Pathway



SCHOOL OF CULINARY ARTS & HOSPITALITY

14

- Culinary & Hospitality Management Pathway



SCHOOL OF EDUCATION AND HUMAN STUDIES

16

- Early Childhood Teacher Academy Pathway
- K-12 Teacher Academy Pathway



SCHOOL OF HEALTH SCIENCES

20

- Allied Health Pathway
- Public and Community Health Pathway



SCHOOL OF LANGUAGE, LITERATURE AND HUMAN DEVELOPMENT

24

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



SCHOOL OF MILITARY AND CIVIC LEADERSHIP

30

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



SCHOOL OF PERFORMING AND DESIGN ARTS

39

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



SCHOOL OF SCIENCE, TECHNOLOGY, ENGINEERING AND MATH

46

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



SCHOOL OF SKILLED AND TECHNICAL TRADES

56

- Construction, Machinery Operator Pathway
- Manufacturing, Production, Technician Pathway

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 students' 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 will be awarded high school credit. Students who meet required prerequisites will earn high school credit in middle school math and world language. Middle school students taking Advanced courses in ASL, Spanish and French are awarded one high school world language credit.

LEARNING OPPORTUNITIES

College Preparatory (CP) Unless otherwise indicated, all courses are college preparatory, in order to provide a rigorous curriculum aligned with state standards and connected to the student's Pathway. These classes prepare students for a variety of postsecondary experiences, including higher education and/or the workforce.

Honors Courses (H) are designed to challenge students who are considering applying to highly competitive colleges and universities. Students enrolled in these courses are expected to utilize independent learning and study skills, and complete additional projects presented by the instructor.

Advanced Placement Courses (AP) 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 these 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 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.

Dual Enrollment Students have the opportunity to enroll in college level courses and receive college credit. The ASD has partnered with the Delaware State University, Wilmington University, Wesley University, Delaware Technical Community College and West Virginia University 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.

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 have learned during the Pathway. During the capstone course students will be expected to research a topic of interest within the Pathway and present on their findings to a committee.

Work-Based Learning (WBL) is a set of instructional strategies that helps prepare students to become college and career ready. WBL experiences are structured opportunities for students to interact with employers and industry partners at school or at a worksite. WBL integrates classroom learning in the Appoquinimink School District Pathways to help students draw connections between their Pathway coursework, workforce readiness, and future careers.

Industry Credentials Students in specific Pathways will have the opportunity to earn state recognized industry credentials.

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.

Articulated 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.

ADVANCED PLACEMENT & POST-SECONDARY ALIGNMENT

ACCEPTED AP CREDITS AND REQUIRED SCORES FOR MOST WIDELY ATTENDED COLLEGES

AP COURSES OFFERED IN APPOQUINIMINK SCHOOL DISTRICT	Delaware State University	Drexel University	LaSalle University	Penn State University	Rutgers University	Salisbury University	Seton Hall University	Temple University	Towson University	University of Delaware	University of Maryland	Washington College	Wesley College	West Chester University	West Virginia University	Wilmington University
Biology	3	4	3	4	4	3	4	3	3	3	4	4	3	3	3	3
Calculus AB	3	5	4	4	4	3	4	3	3	5	4	4	3	4	3	3
Calculus AC	3	3	4	4	3	4	3	3	3	4	4	3	3	3	3	3
Chemistry	3	4	3	4	4	4	4	4	3	3	4	5	3	4	3	3
Comp Sci A	3	4	3	5	4	4	4	4	4	3	5	4	NI	3	3	3
Computer Science Principles	3	4	NI	4	4	4	4	4	4	4	NI	NI	NI	4	NI	3
English Lang and Comp	3	4	3	NI	3	4	3	3	3	4	4	3	3	3	3	3
English Literature	3	4	3	4	4	3	4	4	4	3	3	4	3	4	3	3
Environmental Science	3	4	4	3	4	3	4	3	4	3	4	5	NI	3	3	3
French Language & Culture	3	4	4	3	4	3	4	4	3	3	4	4	3	3	3	3
Government/ Politics: US	3	3	4	4	4	4	4	3	3	4	4	3	3	3	3	3
Human Geography	3	4	3	3	4	3	4	3	3	3	4	4	NI	3	3	3
Macroeconomics	3	5	4	4	4	3	4	3	3	4	4	4	3	3	3	3
Microeconomics	3	5	4	4	4	3	4	3	3	4	4	4	3	3	3	3
Music Theory	3	4	3	3	4	3	4	4	3	4	4	4	3	3	3	3
Physics 1	3	4	4	4	4	4	4	4	3	4	4	4	3	4	3	3
Physics 2	3	4	4	4	4	4	4	4	3	4	4	4	3	4	3	3
Psychology	3	4	4	5	4	3	4	3	3	4	4	4	3	4	3	3
Spanish Language & Culture	3	4	3	4	3	4	3	3	4	4	4	3	3	3	3	3
Statistics	3	4	3	3	4	3	4	3	3	4	4	4	3	3	3	3
Studio Art: 2D	3	4	3	3	4	3	4	3	4	3	4	NI	3	3	3	3
US History	3	4	4	4	4	4	4	4	5	4	4	3	3	3	3	3
World History	3	4	4	4	4	3	4	4	4	4	4	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.

PROJECT ACCELERATION

Appoquinimink School District will offer a concurrent enrollment program called Project Acceleration within the College of Arts and Sciences at Seton Hall University, which will allow high school students to get a head start on their university careers. Over the course of their high school career, students can earn up to 22 credits from Seton Hall University for approved AP courses taken in our high schools. AP courses are subject to change and will be identified in the fall of each year. The cost for participation in the program is \$100 per credit/\$300 per course. The college credits earned through Project Acceleration are accepted at more than 200 colleges and universities. There are currently 175 high schools offering Project Acceleration courses. For more information about Project Acceleration visit: <https://www.shu.edu/project-acceleration/>.

EARN COLLEGE CREDIT IN HIGH SCHOOL

Dual Enrollment courses are college courses taught and supported by Appoquinimink School District faculty. ASD faculty act as adjunct instructors and teach the college courses during the school day or in an online format outside of the school day. Students taking Dual Enrollment courses earn high school and college credit at the same time. Students receive a transcript from the partnering college or university once the credit is earned.

Local colleges and universities offer special programming for students interested in taking college courses on campus while still enrolled in high school. Students can choose to take courses during the school day with special arrangement through the counseling department, after school hours, or over the summer months. Local institutions, including Delaware State University, Wilmington University, and Delaware Technical Community College offer early college, on-campus opportunities to high school students.

APPOQUINIMINK APPROVED DUAL ENROLLMENT COURSES OFFERED FOR 2019-2020 SCHOOL YEAR



Trigonometry



Anatomy and Physiology

Sociology

Contemporary Issues in Early Childhood



Intermediate French

Intermediate Spanish

Introduction to Law

Introduction to Political Science



Music 101

Philosophy 100 - Introduction to Critical Thinking

Early Childhood Education Creating Environments for Learning

SCHEDULE

Appoquinimink School District offers eight credit hours per school year, during regular school hours. This gives all students 32 credit opportunities prior to graduation. This allows students to not only complete their selected Pathway, but take additional credit hours to enhance their transcript and improve their high school experience, both inside and outside of their school. Appoquinimink School District high schools operate on a four class per day schedule. Classes are generally 90 minutes each. This schedule allows for an increased academic opportunity, 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.

Table of Contents

Graduation Requirements, Course Levels, Dual Enrollment and Early College 2

CAREER PATHWAYS EXPLAINED: Scope and Sequence

10 Schools and 27 Pathways 1

Advanced Placement 24-25

Allied Health 20-21

Animal Science 6-7

Computer Science (PLTW)..... 46-47

Construction, Machinery Operator 56-57

Criminal Justice and Legal Issues 30-31

Culinary and Hospitality Management..... 14-15

Digital Communication Technology..... 38-39

Early Childhood Teacher Academy 16-17

Engineering (PLTW) 48-49

Forensics 50-51

Humanities..... 26-27

Jobs for Delaware Graduates 32-33

Junior Reserve Officer Training Corps 34-35

K12 Teaching Academy..... 18-19

Life-Centered Career Education 36-37

Manufacturing, Production Technician 58-59

Mathematics 52-53

Music 40-41

NAF Academy of Finance 12-13

Natural Resources and Environmental Sciences 8-9

Plant Science 10-11

Public and Community Health 22-23

Science..... 54-55

Theatre Arts 42-43

Visual Arts 44-45

World Language and International Study 28-29

COURSE DESCRIPTIONS

English..... 60-62

Mathematics 63-64

Science..... 65-67

Social Studies 68-70

World Languages..... 71-72

Agriculture and Natural Resources 73-75

Health Sciences 76

Academy of Finance..... 77

Culinary and Hospitality Management..... 78

Education..... 79-80

STEM (Science, Technology, Engineering, Math)..... 81-82

Performing and Design Arts 83-86

Drivers Ed / Health / Physical Education 87

Junior Reserve Officers Training Corps (JROTC)..... 88

Jobs for Delaware Graduates..... 89

Life-Centered Career Education..... 90

Skilled and Technical Trades 91



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.



SUMMARY OF PATHWAY

The Animal Science & Management program is a 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 CREDIT

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

University of Delaware

ANFS 166: Independent Study, Animal and Food

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	English I English II		Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry⁴
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two credits: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I Anatomy and Physiology II Honors AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History Psychology AP Psychology AP World History Sociology⁴ African American History Sociology
Health: 0.5 credits	Health			
Physical Education: 2†df eju	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				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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.			

¹ Students are required to take a Math course in their Senior Year.
² One of which must be U.S. History.
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.

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



NATURAL RESOURCE MANAGEMENT PATHWAY

PATHWAY HIGHLIGHTS

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

FUTURE CAREERS:

- Arborist
- Environmental Specialist
- Game Warden
- Restoration Specialist
- Systems Ecologist
- Wildlife 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.



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.



COLLEGE CREDIT

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







Delaware State University

NTRS 103: Introduction to Environmental Science

Wesley College

ES 209: 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	English I	English II	Choose two:  English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III 			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry⁴
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two credits: Biology II  AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I Anatomy and Physiology II Honors AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History Psychology AP Psychology AP World History Sociology⁴ African American History Sociology
Health: 0.5 credits	Health 			
Physical Education: 2 credits ¹	Physical Education 			
World Language: 2 credits ³	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 Practicum[†]
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this pathway.			

¹ Students are required to take a Math course in their Senior Year.
² One of which must be U.S. History.
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.

[†] = Capstone course
⁵ World History may be a requirement for some colleges/universities such as Delaware State University and University of Delaware. Students may want to take this as a 4th social studies credit or an elective credit.



PLANT SCIENCE PATHWAY

PATHWAY HIGHLIGHTS

- Four courses in Plant Science Pathway
- Delaware 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.



SUMMARY OF PATHWAY

The Plant and Horticultural Sciences Pathway encourages students to study the production of plants while developing an understanding of one of the largest employment sectors. Areas of study include: soils, hydroponics, plant anatomy and physiology, taxonomy, growing environments, sexual reproduction, asexual reproduction, insects and diseases, and production & marketing. The major focus of the Pathway is to expose students to the world of agriculture, plant science, and career options.



COLLEGE CREDIT

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

Delaware State University
AGRI 219: General Horticulture

University of Delaware
PLSC 166: Independent Study Plant 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	English I	English II	Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III		Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry⁴	
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two credits: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I Anatomy and Physiology II Honors AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History Psychology AP Psychology AP World History Sociology⁴ African American History Sociology
Health: 0.5 credits	Health			
Physical Education: 2!dsf eju	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 & Horticultural Science Capstone[†]
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this pathway.			

PLANT SCIENCE PATHWAY REQUIREMENTS

¹ Students are required to take a Math course in their Senior Year.
² One of which must be U.S. History.
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.

[†] = Capstone course
⁵ World History may be a requirement for some colleges/universities such as Delaware State University and University of Delaware. Students may want to take this as a 4th social studies credit or an elective credit.



NAF ACADEMY OF FINANCE PATHWAY

PATHWAY HIGHLIGHTS

- Fundamentals of Finance
- Principles of Accounting
- AP Microeconomics
- Economics II
- AP Macroeconomics
- Financial Services

FUTURE CAREERS:

- Accountant
- Budget Analyst
- Certified Public Accountant
- Claims Representative
- Financial Analyst
- Insurance Agent
- Loan Officer
- Mortgage Broker
- Payroll
- Personal Finance Advisor
- Tax Preparer

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 participating in this pathway may earn NAFTrack Certification.



SUMMARY OF PATHWAY

The National Academy Foundation's (NAF) Academy of Finance (AOF) program of study is a four (4) course Pathway that engages students with the world of financial services by focusing on banking and credit, financial planning, accounting, and insurance. Students gain career knowledge through a series of work-based learning activities that are conducted in school and outside of the classroom. A requirement of this Pathway is that students complete 120 hour internship with an approved industry partner. Through coursework and early career experiences, students completing the NAF Academy of Finance program will earn NAFTrack Certification, NAF's student certification assessment system.








COLLEGE CREDIT

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

Delaware Technical Community College

- BUS 101: Introduction to Business
- SSC 130: Where's My Money?
- SSC 131: Are You Credit Worthy?
- SSC 132: Planning for the Beach?

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	English I	English II	Choose two:  English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III 		Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry⁴</i>	
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two credits:  Biology II  AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science	
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics	Choose one: US History AP US History	Choose one: Economics II World History AP World History AP Human Geography AP Macroeconomics
Health: 0.5 credits	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 Finance	Principles of Accounting	AP Microeconomics Economics II AP Macroeconomics	Financial Services
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

† = Capstone course

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

² One of which must be U.S. History.

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 University of Delaware.

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



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 participating in this pathway may earn industry-recognized certifications/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 an internship/work-based experience.

COLLEGE CREDIT

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

Delaware State University
HTM 311: Food Production Management

Delaware Technical Community College
FSY 100: Introduction to Food 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	English I	English II	Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry ⁴
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two credits: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I Anatomy and Physiology II Honors AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	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 Practicum [†]
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

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

² One of which must be U.S. History.

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

[†] = Capstone course



EARLY CHILDHOOD TEACHER ACADEMY PATHWAY

PATHWAY HIGHLIGHTS

- Practicum Experience
- Earn Industry Recognized Credentials
- Classroom observations
- Work with 4 year old students in Pre-K lab



FUTURE CAREERS:

- Child Care Administrator
- Director of Educational Programs
- Early Childcare Worker
- Early Childhood Research/Analysis
- Early Childhood Teacher
- Early Intervention Specialist
- Teacher's Assistant

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 earn credit for work-based learning experiences.
- Students in this pathway are required to take a dual enrollment course articulated with an accredited post-secondary institution.



SUMMARY OF PATHWAY

The Early Childhood Teacher Academy Pathway that engages students in developing a realistic understanding of early childhood while exploring the importance and impact of teachers. Students will acquire the knowledge and skills needed to sustain their interest in the early childhood profession and cultivate the skills needed to be successful, thus creating a pipeline of high-quality students transitioning to the early childhood field. Students will understand the importance and uniqueness of early childhood and participate in classroom and field experiences. The program prepares students for a variety of careers in early childhood such as teacher, curriculum director, and administrator.

COLLEGE CREDIT







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

Delaware State University
 EDU 206: Introduction to Early Childhood
 EDU 207: Lifespan Development

Delaware Technical Community College
 ECE 111: Childhood Nutrition and Safety

Wilmington University
 ECE 201: Health, Safety and Nutrition
 ECE 207: Differential Methods of Teaching – Infants and Toddlers
 ECE 208: Differential Methods of Teaching – Preschoolers
 ECE 214: Creating Environments for Learning

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	English I	English II	Choose two:  English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III 		Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry⁴	
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one credit: Biology II  AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I Anatomy and Physiology II Honors AP Environmental Science	
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: Sociology⁴ Psychology World History
Health: 0.5 credits	Health 			
Physical Education: 1 credit	Physical Education 			
World Language: 2 credits ³	World Language I-II 		ASD Recommends III-IV	
Pathway Requirement: 4 credits	Human Growth and Development	Early Childhood as a Profession	Curriculum and Instruction in Early Childhood	Contemporary Issues in Early Childhood^{4†}
Work-Based Learning: 1 credit	Early Career Experience			
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this pathway.			

† = Capstone course

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

² One of which must be U.S. History.

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



K-12 TEACHER ACADEMY PATHWAY

PATHWAY HIGHLIGHTS

- Human Growth & Development
- Teaching as a Profession
- Foundations of Curriculum and Instruction
- Creating Environments for Learning (Dual Enrollment)



FUTURE CAREERS:

- Elementary Teacher
- Secondary Teacher
- Paraprofessional
- Special Education Teacher

PATHWAY CREDITS

- This Pathways is a minimum of 30 credits.
- Students will be eligible to take the ParaPro exam to be certified as a paraprofessional.
- Students are required to take a dual enrollment course. Successful completion will result in 3 college credits.

SUMMARY OF PATHWAY

The K-12 Teacher Academy 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 CREDIT

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
 EDUC207: Life Span Development
 EDUC204: Philosophical Foundations of Education
 EDUC313: Exceptional Children



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	English I	English II	Choose two:  English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III 		Choose one: Statistics and Probability Statistical Analysis in Sports Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry⁴	
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology	Choose two credits:  Chemistry I Physics Anatomy and Physiology I AP Biology AP Chemistry Anatomy & Physiology⁴	
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: Sociology⁴ Psychology World History
Health: 0.5 credits	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	Human Growth and Development	Teaching As a Profession	Foundations of Curriculum and Instruction	<i>Creating Environments for Learning^{4†}</i>
Work-Based Learning: 1 credit	Early Career Experience			
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

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

² One of which must be U.S. History.

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 University of Delaware.

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

† = Capstone course



ALLIED HEALTH PATHWAY

PATHWAY HIGHLIGHTS

- Human Growth and Development
- 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
- Physical 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 are required to take a dual enrollment course. Successful completion will result in 3 college credits.



SUMMARY OF PATHWAY

The Allied Health 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 CREDIT

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

- Delaware Technical Community College**
 BIO 100: Medical Terminology
 BIO 120: Anatomy and Physiology
 HLH 100: Essentials of Health Careers



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	English I	English II	Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry⁴
Science: 4 credits	Biology	Chemistry I	Choose two credits: Biology II AP Biology Earth/Space Science I Earth/Space Science II Chemistry II AP Chemistry Physics AP Environmental Science	
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History Psychology AP Psychology AP World History Sociology⁴
Health: 0.5 credits	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	Human Growth and Development	Fundamentals of Health Science	Essentials of Health Careers	Anatomy and Physiology[†]
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

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

² One of which must be U.S. History.

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.

† = Capstone course

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



PUBLIC AND COMMUNITY HEALTH PATHWAY

PATHWAY HIGHLIGHTS

- Human Growth and Development
- Fundamentals of Health Science
- Essentials of Public and Community Health
- Personal Wellness
- Early Career Experience



FUTURE CAREERS:

- Respiratory Therapist
- Nurse
- Dental Hygienist
- Medical Lab Technician
- Nursing Assistant
- Physical Therapist
- Radiologist

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 are required to take a dual enrollment course. Successful completion will result in 3 college credits.



SUMMARY OF PATHWAY

The Public & Community Health Pathway is a four (4) course instructional program of study that engages students in a comprehensive approach to health while learning about social determinants such as poverty, discrimination, and inadequate access to resources. Students will learn to view health from medical, behavioral, social, and environmental perspectives. Additionally, students will discover methods for eliminating health inequities and bringing awareness to public policy to determine the distribution of resources needed for healthy communities. Students will explore the fields of health and human services while investigating client needs, services, and the skills and attitudes required of the effective human services worker. Through exploration of the National Health Science Standards, students will acquire important skills necessary for healthcare professionals such as medical terminology, medical mathematics, communication, safety practices, legal responsibilities, and teamwork. Students in the Public & Community Health Program of Study will complete a minimum of fifty (50) hours of work-based learning through the American Red Cross-National Youth Council as a Blood Donor Ambassador, Administrative Assistant, Community Outreach Specialist, Community Disaster Education (CDE) Presenter, or Pillowcase Project Presenter. Positions with the Red Cross will be supervised by the Red Cross Regional Volunteer Specialist and the Public & Community Health teacher. Students will be required to log service hours with the Red Cross volunteer system.

COLLEGE CREDIT

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

Delaware Technical Community College
 BIO 100: Medical Terminology

Wilmington University
 HLT 321: 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	English I	English II	Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry ⁴
Science: 4 credits	Biology	Chemistry I	Choose two credits: Biology II AP Biology Earth/Space Science I Earth/Space Science II Anatomy and Physiology I Chemistry II AP Chemistry Physics AP Environmental Science	
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History Psychology AP Psychology AP World History Sociology ⁴
Health: 0.5 credits	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	Human Growth and Development	Fundamentals of Health Science	Essentials of Public and Community Health	Personal Wellness [†]
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

¹ Students are required to take a Math course in their Senior Year.
² One of which must be U.S. History.
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.

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



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
- Two additional AP courses beyond the core courses above



PATHWAY CREDITS

- This Pathway is a minimum of 32 credits.
- An expectation for this Pathway is that students sit for the AP exam in any AP course taken.

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 honors or AP level courses for each course throughout the Pathway.



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	English I-II		Choose one: AP Language and Composition AP Literature and Composition	AP Research†
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III		Choose one: Integrated Math IV AP Statistics AP Calculus AB AP Calculus BC Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus Trigonometry⁴	
Science: 4 credits	Biology	AP Biology	Choose one: Chemistry Physics	Choose one: Anatomy and Physiology AP Chemistry AP Physics
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History⁵ AP World History Psychology AP Psychology Sociology
Health: 0.5 credits	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II			ASD Recommends III-IV
Pathway Requirement: 4 credits	AP Seminar	Choose three: AP Calculus BC AP Comp Science AP Gov't and Politics AP Music Theory AP Studio Art	AP Comp Sci A AP World Language AP Macroeconomics AP Psychology Any AP Social Studies	
Capstone Project: 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

¹ Students are required to take a Math course in their Senior Year.
² One of which must be U.S. History.
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.

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



HUMANITIES PATHWAY

Pathway HIGHLIGHTS

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



FUTURE CAREERS:

- Artist
- Corporate Communications
- Educator
- Foreign Correspondent
- Museum Curator

SUMMARY OF PATHWAY







The Humanities Pathway allows students to focus deeply on a range of courses directly related to English, Social Studies, World Languages and the Arts. 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 of the four targeted areas.

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.



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	English I Honors	English II Honors	Choose two: 	English III Honors English IV British Literature Honors English IV American/British Gothic Honors English IV Themes in Literature Honors AP Language and Composition AP Literature and Composition English IV Wit Lit Honors
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III 			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry⁴</i>
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one credit: 	Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History AP World History
Health: 0.5 credits	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.			
SSP: 0.5 or more credits	Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Capstone Project: 0.5 credit [†]	Students are required to complete a capstone project that is aligned to their Pathway.			
Elective: 4.5 credits minimum	Students must earn at least 4.5 additional credits to complete this Pathway.			

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

² One of which must be U.S. History.

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 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

UNITS OF STUDY

- World Language I-IV
- Career Capstone

FUTURE CAREERS:

- Teacher/Associate Professor/ Professor
- Conference/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. Students 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 of more world languages in addition to English.

Pathway CREDITS

- This Pathway is a minimum of 29 credits.
- An expectation for this Pathway is that students register and complete the AP exam in language AP courses.



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	English I	English II	Choose two:	English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry⁴
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two credits:	Biology II
			AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science	
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History AP World History
Health: 0.5 credits	Health			
Physical Education: 1 credit	Physical Education			
World Language: 4 credits ³	World Language I-IV			
Pathway Requirement: 4 credits minimum Proficiency Assessment*	World Language I-III			Language and Career Capstone course^{4†}
	(In addition to WL language credit (4 courses in levels I-IV))			
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

* = This is needed to apply for the certificate of Multiliteracy (can be taken in any of the four years). OPI, STAMP, AAPPL (as determined by counselor)

¹ Students are required to take a Math course in their Senior Year.
² One of which must be U.S. History.
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.

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



CRIMINAL JUSTICE AND LEGAL ISSUES PATHWAY

PATHWAY HIGHLIGHTS

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

FUTURE CAREERS:

- Lawyer
- Politician
- Police Officer
- Lobbyist
- Public Policy
- Human Resources

Pathway CREDITS

- This Pathway is a minimum of 30 credits.



SUMMARY OF PATHWAY

The Political Science and Legal Issues 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.



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	English I	English II	Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry ⁴
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two credits: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science	
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History AP World History
Health: 0.5 credits	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 Intro to Law		Choose two: Sociology DTCC Sociology ⁴ Psychology AP Psychology AP Govt. & Politics Intro to Political Sciences ⁴ Sociology	
SSP: 0.5 or more credits	Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion			
Capstone Projects: 0.5 credit [†]	Students are required to complete a capstone project that is aligned to their Pathway.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional credits to complete this Pathway.			

† = Capstone course

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

² One of which must be U.S. History.

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



JOBS FOR DELAWARE GRADUATES PATHWAY

PATHWAY HIGHLIGHTS

- JDG Grade 9
- JDG Grade 10
- JDG Grade 11
- JDG Grade 12

FOCUS OF Pathway

- Delaware Scholarship Programs
- Organization and Time Management
- Career Attire
- Cover Letter, Resumes, and References
- Employment Interviews
- Business Etiquette
- Employee Rights
- Financial Planning

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.



SUMMARY OF PATHWAY

The curriculum includes seventeen school-to-work transition competencies per year. All JDG students are eligible for membership in the Delaware Career Association (DCA), a youth organization that enhances the classroom instruction with field trips, group activities, and state conferences. The four goals of the DCA are: leadership development, citizenship, social awareness, and career preparation. The JDG Specialist 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.

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	English I	English II	Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry ⁴
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: African American History World History AP Microeconomics Psychology AP Psychology Sociology ⁴ AP US History AP World History
Health: 0.5 credits	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 Grade 9	JDG Grade 10	JDG Grade 11	JDG Grade 12 [†]
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway, one of which must be science or social studies			

† = Capstone course

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

² One of which must be U.S. History.

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 University of Delaware.

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



JUNIOR RESERVE OFFICER TRAINING CORPS PATHWAY

PATHWAY HIGHLIGHTS

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



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 28 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	English I	English II	Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry ⁴
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two credits: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science	
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: African American History World History AP Microeconomics Psychology AP Psychology Sociology ⁴ AP US History AP World History AP Macroeconomics Sociology
Health: 0.5 credits	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	Choose one: Aerospace Science II Military Science II	Choose one: Aerospace Science III Military Science III	Choose one: Aerospace Science IV [†] Military Science IV [†]
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

† = Capstone course

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

² One of which must be U.S. History.

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



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

Pathway CREDITS

- Students in this Pathway will receive a certificate of completion.
- Students in this Pathway will receive a Diploma of Alternative Achievement Standards

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 18-21 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.



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

	GRADE 9	GRADE 10	GRADE 11	GRADE 12
English: 9-2	Take all: English DLM I English DLM II		English DLM III English DLM IV	
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 COMMUNICATION TECHNOLOGY PATHWAY

PATHWAY HIGHLIGHTS

- Foundations of Digital Design
- Processes of Digital Design
- Applications of Digital Design
- 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

SUMMARY OF PATHWAY

The Digital Communication Technology (DCT) program of study is a three (3) course Career & Technical Education (CTE) 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.

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	English I	English II	Choose two:	English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition
Mathematics: 4 credits ¹	Take all sequentially		Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry⁴</i>	
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one:	Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	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	Process of Digital Design Production	Applications of Digital Design	Digital Communication Capstone[†]
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway.			

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

² One of which must be U.S. History.

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.

† = Capstone course

⁵ World History may be a requirement for some colleges/universities such as Delaware State University and 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, Women’s 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 29 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	English I	English II	Choose two:  English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially  Integrated Math I – III		Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry ⁴	
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one:  Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health 			
Physical Education: 1 credit	Physical Education 			
World Language: 2 credits ³	World Language I-II 		ASD Recommends III-IV	
Pathway Requirement: 5 credits	Choose one: Band Orchestra Chorus Percussion Ensemble	Choose one: Band Orchestra Chorus Advanced Chorus Percussion Ensemble	Choose one: Band Orchestra Chorus Advanced Chorus Percussion Ensemble	Choose one: Band Orchestra Chorus Advanced Chorus Percussion Ensemble Choose one: AP Music Theory [†] Music Appreciation ^{4,†}
Capstone Project 0.5 credit				
SSP: 0.5 or more credits	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 credits to complete this pathway, one of which must be Science or Social Studies.			

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

² One of which must be U.S. History.

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

† = Capstone course

some colleges/universities such as Delaware State University and University of Delaware. Students may want to take this as a 4th social studies credit or an elective credit.

Students are required to complete a capstone project that is aligned to their Pathway.



THEATRE ARTS PATHWAY

PATHWAY HIGHLIGHTS

Students choose one area of focus:

- Fundamentals of Acting
- Stagecraft
- Musical Theatre Performance/
Theatre Dance
- Senior Showcase

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 29 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	English I	English II	Choose two: 	English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition
Mathematics: 4 credits ¹	Take all sequentially 			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry⁴</i>
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one: 	Biology II  AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science
Social Studies: 4 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	Choose one: World History AP World History
Health: 0.5 credits	Health 			
Physical Education: 1 credit	Physical Education 			
World Language: 2 credits ³	World Language I-II 			ASD Recommends III-IV
Pathway Requirement: 4 credits	Choose one: Stagecraft I 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[†] Senior Showcase[†]
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this Pathway, one of which one must be: Foundations of Art Chorus Musical Theatre Arts Music Theory			

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

² One of which must be U.S. History.

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

[†] = Capstone course

some colleges/universities such as Delaware State University and University of Delaware. Students may want to take this as a 4th social studies credit or an elective credit.



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 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	English I	English II	Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry ⁴
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II			ASD Recommends III-IV
Pathway Requirement: 5 credits	Foundations of Art	Must choose four: Ceramics and Sculpture I-II Drawing and Painting I-II Foundation of Digital Design AP Studio Art AP Art History		
SSP: 0.5 or more credits	Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Capstone Project: 0.5 credit [†]	Students are required to complete a capstone project that is aligned to their Pathway.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional credits to complete this pathway, one of which must be Science or Social Studies			

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

² One of which must be U.S. History.

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

† = Capstone course

some colleges/universities such as Delaware State University and University of Delaware. Students may want to take this as a 4th social studies credit or an elective credit.



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

SUMMARY OF PATHWAY







The 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.

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.



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	English I	English II	Choose two: 	English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III 		Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry⁴	
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one: 	Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I AP Environmental Science
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health 			
Physical Education: 1 credit	Physical Education 			
World Language: 2 credits ³	World Language I-II 		ASD Recommends III-IV	
Pathway Requirement: 4 credits	Computer Science Essentials	AP Computer Science Principles	AP Computer Science A	Cybersecurity[†]
Work-Based Learning: 1 credit				Early Career Experience
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this pathway, one of which must be Science or Social Studies			

¹ Students are required to take a Math course in their Senior Year.
² One of which must be U.S. History.
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 University of Delaware. Students may want to take this as a 4th social studies credit or an elective credit.

[†] = Capstone course



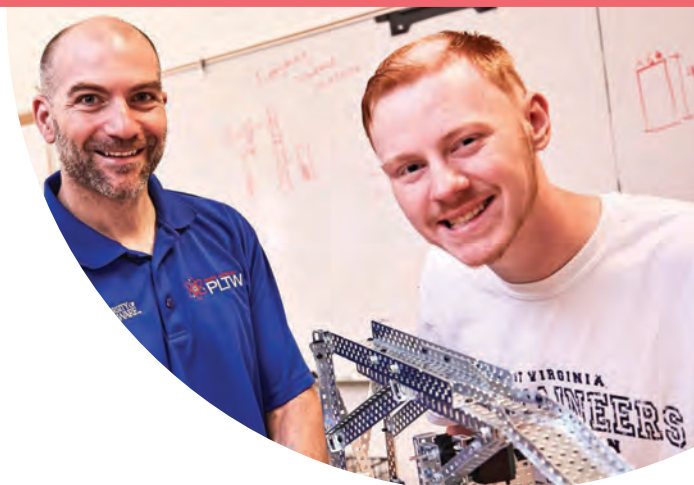
ENGINEERING PATHWAY (PLTW)

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



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.



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	English I	English II	Choose two: 	English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III 		Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry</i> ⁴	
Science: 4 credits	Biology I	Choose three: 		
		Earth/Space Science I Chemistry I Chemistry II Physics AP Chemistry AP Physics 1 AP Physics 2		
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health 			
Physical Education: 1 credit	Physical Education 			
World Language: 2 credits ³	World Language I-II 		ASD Recommends III-IV	
Pathway Requirement: 4 credits	Introduction to Engineering 		Principles of Engineering Choose one: Digital Electronics <i>Engineering Problem Solving I</i> ⁴	<i>Required:</i> Engineering Design and Development [†]
Work-Based Learning: 1 credit	Early Career Experience			
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this pathway.			

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

² One of which must be U.S. History.

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 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 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	English I	English II	Choose two: English III → English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III →			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC Trigonometry ⁴
Science: 4 credits	Biology I	Chemistry	Choose two credits: → Biology II AP Biology Chemistry II AP Chemistry Physics AP Physics	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health →			
Physical Education: 1 credit	Physical Education →			
World Language: 2 credits ³	World Language I-II →		ASD Recommends III-IV	
Pathway Requirement: 4 credits	Earth/Space Science I	Anatomy/Physiology	Forensic Science I	Forensic Science II [†]
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Elective: 5.5 credits minimum	Students must earn 5.5 additional credits to complete this pathway. Suggested but not required courses which complement or enhance this pathway experience could include Psychology, Introduction to Political Science (Dual Enrollment Wesley College), Introduction to Forensic Science (Dual Enrollment West Virginia University), or Introduction to Criminal Justice (Dual Enrollment Wesley College).			

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

² One of which must be U.S. History.

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.

† = Capstone course

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

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



MATHEMATICS PATHWAY

PATHWAY HIGHLIGHTS

- AP Statistics
- AP Calculus AB
- AP Calculus BC

FUTURE CAREERS:

- Animator/Game Designer
- Computer Programmer/Analyst
- Engineer
- Mathematician
- Accountant
- Political Scientist
- Research Scientist

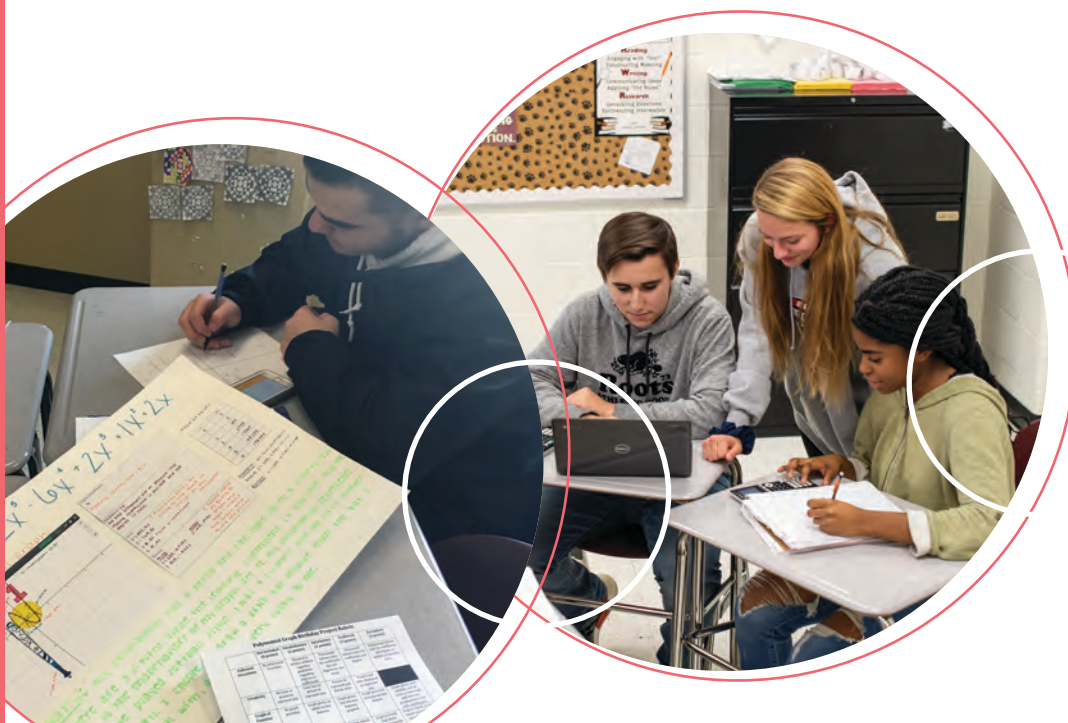


SUMMARY OF PATHWAY

This academic Pathway is designed to provide coursework that will prepare students to pursue a career in fields that require a strong mathematical background. In addition to completing the four required courses in mathematics, students will also complete additional coursework that may earn college credit while in high school. Students choosing this Pathway will explore work in a STEM-related field through work study or internship as part of the Pathway requirements.

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	English I	English II	Choose two:	English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition
Mathematics: 4 credits ¹	Take all sequentially		Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry</i> ⁴	
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose two:	Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I Anatomy and Physiology II Honors AP Environmental Science
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health			
Physical Education: 1 credit	Physical Education			
World Language: 2 credits ³	World Language I-II		ASD Recommends III-IV	
Pathway Requirement: 4 credits	Choose 4 credits: AP Statistics AP Calculus AB AP Calculus BC AP Physics 1 AP Physics 2			
SSP: 0.5 or more credits	Student Success Plan (SSP) completed over the course of 4 years. Credit awarded upon completion.			
Capstone Project: 0.5 credit [†]	Students are required to complete a capstone project that is aligned to their Pathway.			
Elective: 5.5 credits minimum	Students must earn at least 5.5 additional credits to complete this Pathway.			

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

² One of which must be U.S. History.

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

† = Capstone course

some colleges/universities such as Delaware State University and University of Delaware. Students may want to take this as a 4th social studies credit or an elective credit.



SCIENCE PATHWAY

PATHWAY HIGHLIGHTS

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



FUTURE CAREERS:

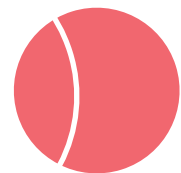
- Astrophysicist
- Climatologist
- Government Researcher
- Meteorologist
- Physicist
- Research Scientist
- Medical Professional
- Pharmacist

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 real scientists do in their fields. Students choosing this Pathway should 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.

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	English I	English II	Choose two: 	English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition
Mathematics: 4 credits ¹	Take all sequentially 			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry⁴</i>
Science: 4 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose any two science credits: 	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health 			
Physical Education: 1 credit	Physical Education 			
World Language: 2 credits ³	World Language I-II 		ASD Recommends III-IV	
Pathway Requirement: 4 credits	Choose 3 additional Science credits 		Scientific Research and Design[†] <i>Fall only</i>	
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
SSP: 0.5 or more credits	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 credits to complete this pathway.			

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

² One of which must be U.S. History.

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.

[†] = Capstone course

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

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



CONSTRUCTION, MACHINERY OPERATOR PATHWAY

PATHWAY HIGHLIGHTS

- Foundations of Construction
- Introduction to Machinery Operations
- Advanced Machinery Operator
- Construction Capstone



FUTURE CAREERS:

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

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.

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.

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	English I English II		Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry⁴</i>
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I Anatomy and Physiology II Honors AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health			
Physical Education: 2 credits	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[†]
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
Work-Based Learning: 1 credit	Early Career Experience			
SSP: 0.5 or more credits	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.			

† = Capstone course

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

² One of which must be U.S. History.

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



MANUFACTURING, PRODUCTION TECHNICIAN PATHWAY

PATHWAY HIGHLIGHTS

- Principles of Manufacturing
- Electrical Systems and Controls
- Fluid Power
- Electro-Mechanical Systems



FUTURE CAREERS:

- Electrical Equipment Installer/Repairer
- Industrial Electronic Installer/Repairer/Manager
- Industrial Machinery Mechanic
- Industrial Maintenance Electrician
- Manufacturing Engineer
- Manufacturing Technologist
- Mechanical Engineer

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.

SUMMARY OF PATHWAY

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

Work-based learning experiences or Craftsmanship Placements will be available to students upon successful completion of the MSS100 - Principles of Manufacturing and MSS111 - Manufacturing Electrical Systems and Controls courses. Craftsmanship Placements will be organized and supported by the Delaware Manufactures Association and by the Delaware Technical Community College. The administration and supervision of the Craftsmanship Placements will be conducted by the participating local education agency, Delaware Technical Community College faculty, and the participating manufacturing supervisor(s).

COLLEGE CREDIT

Students who complete the Manufacturing, Production Technician Pathway may receive the following articulated credits upon enrollment into that institution of higher learning:

DELAWARE TECH COMMUNITY COLLEGE

- ELM130 – Industrial Electricity - 3 credits
- ELM205 - Mechanisms & Design - 3 credits
- ELC243 – Program Logic Controllers - 4 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	English I English II		Choose two: English III English IV British Literature English IV American/British Gothic English IV Themes in Literature AP Language and Composition AP Literature and Composition	
Mathematics: 4 credits ¹	Take all sequentially Integrated Math I – III			Choose one: Integrated Math IV Statistics and Probability Statistical Analysis in Sports Advanced Algebra with Financial Applications Honors Calculus AP Statistics AP Calculus AB AP Calculus BC <i>Trigonometry⁴</i>
Science: 3 credits	Choose one: Earth/Space Science I Chemistry I Physics	Biology I	Choose one: Biology II AP Biology Earth/Space Science I Earth/Space Science II Environmental Science Chemistry I Chemistry II Physics Anatomy and Physiology I Anatomy and Physiology II Honors AP Environmental Science	
Social Studies: 3 credits ^{2,5}	Choose one: World Studies AP Human Geography	Choose one: Civics and Economics AP Microeconomics AP Government & Politics	Choose one: US History AP US History	
Health: 0.5 credits	Health			
Physical Education: 2 credits ¹	Physical Education			
World Language: 2 credits ³	World Language I-II			ASD Recommends III-IV
Pathway Requirement: 4 credits minimum	Principles of Manufacturing	Electrical Systems and Controls	Fluid Power	Electro-Mechanical Systems[†]
Capstone Project 0.5 credit	Students are required to complete a capstone project that is aligned to their Pathway.			
Work-Based Learning: 1 credit	Early Career Experience			
SSP: 0.5 or more credits	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.			

† = Capstone course

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

² One of which must be U.S. History.

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

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 level students, English III and IV can be substituted with successful completion of an AP or Dual enrollment course in English. Listed elective or Pathway courses may not be substituted for core courses.

ENGLISH I

01001

01001H

1 Credit

This course expands on the reading skills and strategies previously learned in a students' educational career. Critical reading skills will be reinforced as students tackle increasingly more complex texts and materials independently. In addition to vocabulary expansion, the course will focus on the development of advanced writing skills, and the introduction of more effective approaches to introductions, transitions, and supporting details. Research skills and literary analysis approaches will also be refined.

ENGLISH II

01002

01002H

1 Credit

This course uses a varied selection of literature across genres and continues to build upon and add to students' literacy skills. Throughout the course, students will expand their vocabulary as well as strengthen their research and literary analysis skills. Writing will continue to be a strong focus. Students will refine their skills in development, organization and style while crafting responses that represent an increased level of critical thought from that required in previous years.

ENGLISH III

01003

01003H

1 Credit

The foundation of this course will be the study of American Literature including its development across time periods and genres. Research and writing skills, as well as new approaches to literary analysis, will be introduced 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.

ENGLISH IV- AMERICAN/ BRITISH GOTHIC

01061

01061H

1 Credit

This course is designed to expose students to a variety of American and British Gothic works. Through an examination of British Gothic, students will be able to evaluate the differences in the foundation and development of American Gothic texts. The ultimate goal of this course is to redefine students' understanding of the concept of horror through a study of authors such as Edgar Allen Poe, Stephen King and Mary Shelley organizing a concert, and Delaware's own "Punkin Chunkin" contest. Students will use exciting real-world contexts to expand skills in algebra, geometry and data analysis. Honors students complete a unit project in addition to the unit test for each unit. Instruction will include an additional unit on Matrices. Prerequisite: Integrated Math I.

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, in an effort to help them be as prepared as possible for their post-secondary endeavors.

ENGLISH IV- THEMES IN LITERATURE

01065

01065H

1 Credit

This course is designed to expose students to dominant themes explored in 20th and 21st century literature as well as their foundations in earlier text. Through a study of classical, contemporary and global literature, as well as related media, students will explore the development of multiple themes relating to modern culture, society and the individual. The ultimate goal of the course is to refine students' critical reading and writing skills in an effort to help them be as prepared as possible for their post-secondary endeavors.

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 author's purpose and how hu-

mor 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.

AP LANGUAGE AND COMPOSITION

01005

1 Credit

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

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 analysis of literature and literary composition. This is a rigorous course and students are expected to take the AP Literature and Composition exam. Prerequisite: English I and II.

AP RESEARCH

22112

1 Credit

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

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 own 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 in order to craft and communicate evidence-based arguments. Students taking this course are expected to take the AP Seminar exam.

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.

FOUNDATIONS OF COLLEGE ENGLISH

01992

1 Credit

This course is a preparatory course designed to provide reinforcement in writing skills and improve reading fluency and comprehension skills. Reading and writing activities are integrated to provide continuity and practical application. Students completing the course with a score of 75% or higher will be qualified to take credit-bearing English coursework at Delaware institutions of higher education. This course is offered to students who have not reached the 480 SAT benchmark for English Language Arts, but are seeking college-level course work at DTCC while enrolled in high school. This course does not satisfy an English requirement. Honors students complete a unit project in addition to the unit test for each unit. Instruction includes instruction in Inverses and logs. Prerequisite: Integrated Math II.

ENGLISH ELECTIVES

ELL- ENGLISH I

0100813

1 Credit

In this course, taught to newcomers to the English language, students will learn basic vocabulary and survival language functions. Some American culture will be presented.

ELL- ENGLISH II

0100823

1 Credit

This course emphasizes listening and speaking skills. Students learn language patterns and structures that will enable them to function in a variety of settings. Pronunciation is addressed as well as spelling. Course satisfies one English credit 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.

**EARLY COLLEGE ACCESS-
WEST VIRGINIA UNIVERSITY**

When students take a Dual Enrollment course as a requirement within a pathway, the district covers the cost of the course. When a run on the West Virginia University semester schedule. Fall classes may begin prior to the Appoquinimink School District academic year. West Virginia University determines the semester in which the courses will be offered.

PUBLIC COMMUNICATION

01930

Fully Online

1 Credit

Introduction to principles of communication in the one-to-many context. Emphasis is given to the creation and refutation of arguments.

INTRODUCTION TO MASS MEDIA

01940

Fully Online

1 Credit

Critical examination of mass media with special emphasis on ways in which social, economic, and psychological factors influence the structure, functions, and effects of the media.

All students must take Integrated Math I-III sequentially and are required to take a Math course in their senior year. Integrated Math Courses are offered in both College Preparatory (CP) and Honors Courses (H). Please see page 2 for additional information on Course levels.

IMPORTANT: A GRAPHING CALCULATOR FROM THE TI- 83 OR 84 GROUP IS REQUIRED FOR THESE MATH CLASSES

ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS

02069

1 Credit

This course explores reasons why take-home pay is lower than salary as well as how to file income taxes. Students will use spreadsheets and real-world data analysis. The goal of this course is to prepare you for your financial life after high school. Prerequisite: Integrated III

HONORS 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: Integrated Math IV

INTEGRATED MATH I

02062

02062H

1 Credit

This course explores the mathematics behind bungee jumping, bouncing balls, the geometry behind building structures, and discovers mathematically how to best play games of chance. It uses exciting real-world contexts to build a foundation of algebra, geometry, and data analysis skills. *Honors* students

complete a unit project in addition to the unit test for each unit. Instruction will include a deeper focus on the Quadratics unit.

INTEGRATED MATH II

02063

02063H

1 Credit

This course explores the mathematics behind costs & revenue when organizing a concert, and Delaware's own "Punkin Chunkin" contest. Students will use exciting real-world contexts to expand skills in algebra, geometry and data analysis. *Honors* students complete a unit project in addition to the unit test for each unit. Instruction will include an additional unit on Matrices. Prerequisite: Integrated Math I

INTEGRATED MATH III

020614

020614H

1 Credit

In this course, students use minute-mysteries to explore logic & reasoning and design roller coaster tracks to explore polynomial functions. This course is the third in the sequence builds upon the mathematical concepts from the first two courses while students develop understanding of rational functions, inverses, logarithms, and similar & congruent figures. *Honors* students complete a unit project in addition to the unit test for each unit. Instruction includes instruction in Inverses and logs. Prerequisite: Integrated Math II

INTEGRATED MATH III A

020614A

1 Credit

This course is intended to cover the first half of the Integrated Math III program. It provides an opportunity to study inequalities, linear programming, and quadratic and polynomial functions.

Prerequisite: Integrated Math II and staff placement.

INTEGRATED MATH III B

020614B

1 Credit

This course will cover the second half of the Integrated Math III program. It provides an opportunity to study reasoning strategies; geometric proofs; triangle similarity and congruence; and logarithms. Prerequisite: Integrated Math IIIA and staff placement.

INTEGRATED MATH IV

020615

020615H

1 Credit

This course involves the explanation of atmospheric changes, model Grand Prix tracks, and discover how the money in the bank grows continuously. This fourth course in the integrated math series applies real-world contexts to mathematics in preparation for Calculus. *Honors* students complete an extra unit on logarithms and go into more depth with trigonometry functions.: Integrated Math III

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: Integrated Math III.

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: Integrated Math I

AP STATISTICS

02203

1 Credit

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: Integrated Math III. Students taking this course are expected to take the AP exam.

AP CALCULUS AB

02124

2 Credits

This upper-level calculus course maintains the rigor of a college course and prepares students take the AP Calculus exam in May. It covers an introduction to limits, development of the derivative and application of the derivative to related rate problems, optimization, curve sketching and rectilinear motion problems. Prerequisite: Integrated Math IV. Students taking this course are expected to take the AP exam.

AP CALCULUS BC

02125

1 Credit

AP Calculus BC is an extension of AB. It covers college-level, single variable differential calculus, integral calculus, and infinite sequences and

series. Course concepts are approached from graphical, numerical, analytical, and verbal points of view in order to provide experience with its methods and applications. Emphasis is placed on the themes that unify calculus including: derivatives, integrals, limits, polynomial approximations of functions, applications, and modeling. Prerequisite: AP Calculus AB. Students taking this course are expected to take the AP exam.

INTEGRATED CONSUMER MATH DLM I, II

02901B, 02902B

This course focuses on the 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 certificate graduate program and will not receive credit.

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 certificate graduate program and will not receive credit.

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

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. Prerequisites: Integrated Math III CP or Honors.

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, nervous and endocrine systems, both their structure and function as well as contribution to homeostasis. Throughout the course, the students will analyze and collaborate to design a course of action for various case studies. The honors course is a more thorough investigation of the material resulting in higher content acquisition over the course of the semester. Dissection is required. Prerequisite: Biology I

ANATOMY/PHYSIOLOGY II HONORS

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 to 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. The

honors course requires students to develop research-based writing to explain systems and models investigated.

BIOLOGY II HONORS

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 on a possible solution to a global, biological issue supported by evidence from their research and/or experimentation. Prerequisite: Biology 1

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: overview of atomic theory, patterns in the periodic table, use of models to explain chemical bonding, basic chemical reactions and stoichiometry. Planning and carrying out investigations & using mathematics in computational thinking are emphasized. The honors course requires deep study in each of the topics in preparation for taking AP chemistry.

CHEMISTRY II HONORS

03102H
1 Credit

The Chemistry II Honors 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. The honors course requires students to analyze and synthesize data to 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 HONORS

0300822H
1 Credit

Earth and Space Science II Honors 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

03102H
1 Credit

This course is designed to show the 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 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 should have completed two semesters of science.

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 splatter 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. Students are encouraged to have successfully completed or be concurrently enrolled in Biology I, Chemistry I, and Anatomy & Physiology I.

FORENSIC SCIENCE II

03215

1 Credit

Forensic Science 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 communications 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 a case-study approach to frame each curricular unit. Capturing evidence via photographic or videographic 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 for this course is Forensic Science I.

PHYSICS

03151

03151H

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. The honors course places an emphasis on constructing explanations through computational thinking by analyzing and interpreting data. Prerequisite: Integrated Math II

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 science topic of the students choosing. All students will be expected to present their findings as part

of the Appoquinimink School District STEM Fair.

AP BIOLOGY

03056

2 Credits

The 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 the 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 1 Students taking this course are expected to take the AP exam.

AP CHEMISTRY

03106

2 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. Prerequisite: Students should have successfully completed a prior chemistry course before enrolling in AP Chemistry. This is a two semester course that meets every day. Students taking this course are expected to take the AP exam.

AP ENVIRONMENTAL SCIENCE

03207

2 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. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, chemistry, and geography.

Prerequisite: Students should have completed two years of high school laboratory science — one year of life science and one year of physical science (for example, a year of biology and a year of chemistry). Due to the quantitative analysis required in the course, students should also have taken Integrated Math I & II. This is a two semester course that meets every day. Students taking this course are expected to take the AP exam.

AP PHYSICS 1

03155

2 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 2 semester course that meets every day. **Prerequisite:** Integrated Math II. Students taking this course are expected to take the AP exam.

AP PHYSICS 2

03156

1 Credit

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. This is a 1 semester course offered in the Spring only. **Prerequisite** – AP Physics 1 or Physics Honors (Students may take AP Physics 1 and AP Physics 2 concurrently) Students taking this course are expected to take the AP exam.

DUAL ENROLLMENT- DELAWARE TECHNICAL AND 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 or optional course, the student is responsible for the cost of the course.

ANATOMY AND PHYSIOLOGY

03910

1 Credit

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 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. **Prerequisites:** Biology I.

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

DUAL ENROLLMENT – WEST VIRGINIA 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. This course runs on the West Virginia University semester schedule. Fall classes may begin prior to the Appoquinimink School District academic year. West Virginia University determines the semester in which the course will be offered.

FORENSIC SCIENCE

15055

Fully Online

1 Credit

Forensics is the application of science for solving crimes. This is a course rich in exploration and lab investigation which applies many disciplines of scientific study such as biology/anatomy, chemistry, and physics to solving crimes. There is an emphasis in complex reasoning, constructing arguments from evidence, using mathematics in computational thinking, and critical thinking. Through lessons, lab analysis of fictional crime scenarios, and real-world case studies, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

Prerequisites: Biology and Chemistry

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.

CIVICS/ECONOMICS**04160****04160H****1 Credit**

In this course, students will study both Civics and Economics. Civics is the study of the democratic foundations of the United States government, and the comparison of the US government with other systems of government found throughout the world, to better understand their responsibility to participate in decision-making. Economics is the study of how people, either as individuals or groups, decide to use scarce resources to satisfy wants, by making choices about what to produce, how to produce, and for whom to produce. Students will be expected to do research, participate in simulations, and engage in discussions to foster their understanding of Civic and Economic concepts.

ECONOMICS II**04202****1 Credit**

Students investigate economic principles in more depth, including the role of individual decision makers (producers and consumers), product and factor markets, and the function of the government in promoting efficiency in the economy, both domestically and internationally. The course will conclude with an overview of personal finance decisions. Prerequisite: Successful completion of Civics/Economics.

GRADE 12: TOPICS IN INTEGRATED SOCIAL STUDIES**04904B****1 Credit**

In this course, students will apply the principles of civics, economics, geography, and history to the study of contemporary issues. This course fulfills

the 12th grade social studies credit requirement. Placement is dependent on IEP goals and objectives.

INTRODUCTION TO CRIMINAL JUSTICE**04165****1 Credit**

This course serves as an introduction to the historical background, development and major issues of the criminal justice system. Students will be exposed to concepts such as the legal system, crime, justice and punishment.

INTRODUCTION TO LAW**04162****1 Credit**

This course introduces students to the sources of law in the United States, the differences between civil and criminal law, and the United States Legal System including federal and state judicial systems. Students will learn about several areas of substantive law such as criminal law, tort law, contract law, and family law.

PSYCHOLOGY**04254****1 Credit**

In this course, students investigate scientific theories of human behavior and their application. They explore the anatomy of the brain and discover what psychologists have learned about why people behave the way they do.

SOCIOLOGY**04258****1 Credit**

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.

UNITED STATES HISTORY**04101****04101H****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****04053H****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.

WORLD STUDIES**04001****04001H****1 Credit**

In this course, students study the relationship of people, places, and environments through world history and culture. Through the examination of historical phenomena and geographic patterns, students will develop a greater understanding of how humans have shaped, and continue to shape, our world. They will also learn how to employ the methods used by historians and geographers to analyze data, draw conclusions, and make predictions about the future.

**AP GOVERNMENT AND POLITICS:
UNITED STATES****04004****1 Credit**

In this course, students investigate various aspects of 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**

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 discussion, and participate in simulations. Students taking this course are expected to take the AP Human Geography exam.

AP MACROECONOMICS**04204****1 Credit**

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, 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. Prerequisite: Successful completion of AP Microeconomics.

(AP MACROECONOMICS CAN BE TAKEN IN CONJUNCTION WITH AP MICROECONOMICS)

AP MICROECONOMICS**04203****1 Credit**

In this course, students will gain an understanding of the principles of Economics in relationship 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**

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 SEMINAR**22110****1 Credit**

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 own 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 in order 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**

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**

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.

**DUAL ENROLLMENT COURSE-
DELAWARE TECHNICAL AND
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 or optional course, the student is responsible for the cost of the course.

SOCIOLOGY**04910****1 Credit**

Analysis of American social organization and culture, through a cross-cultural perspective. Sociology investigates, describes, and analyzes patterns of human behavior in all areas of human experience for the purpose of understanding the human condition.

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

DUAL ENROLLMENT COURSE -WESLEY 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 or optional course, the student is responsible for the cost of the course.

INTRODUCTION TO POLITICAL SCIENCE

04950

1 Credit

Introduces the basic ideas and terminology of political science, with emphasis on important current issues.

DUAL ENROLLMENT COURSE -WILMINGTON 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.

PHI 100 INTRODUCTION TO CRITICAL THINKING

04930

1 Semester

1 Credit

This introductory course challenges students with the question: "Why do you think the way you do?"

It gives practical consideration to overcoming thinking errors, developing ethical thought, and applying career-specific principles of effective critical thinking to real-life situations.

WORLD LANGUAGES

AMERICAN SIGN LANGUAGE I

24852

1 Credit

Students gain a basic knowledge of expressive and receptive American Sign Language (ASL) vocabulary through performance based activities. Basic ASL grammar structure will be studied. They will also be introduced to the American Deaf Culture.

AMERICAN SIGN LANGUAGE II

24853

1 Credit

Students further their understanding of ASL with advanced grammatical study and conversation. A more in-depth study of American Deaf Culture will be pursued. Prerequisite: ASL I.

AMERICAN SIGN LANGUAGE III

24854 H

1 Credit

Students will become intermediate-high level practitioners of ASL. They will comprehend and express thoughts and ideas using classifiers, questioning, temporary aspects, role shifting, sequenced events and topic-comment structure. Prerequisite: ASL II.

AMERICAN SIGN LANGUAGE IV

24855 H

1 Credit

Students will demonstrate extended knowledge in ASL when applying to colleges. They will present reports in the targeted language in topics studied in other classes and extend their awareness of limitations of translation between languages. Prerequisite: ASL III.

CHINESE I (MANDARIN)

24402

1 Credit

This course introduces the fundamentals of Mandarin. Students focus on the Chinese Pinyin Romanization system, Chinese characters and calligraphic techniques. Students are also exposed to Chinese culture.

CHINESE II (MANDARIN)

24403

1 Credit

A continuation of the four pillars of language learning: listening, speaking, reading and writing. Class instruction emphasizes situational activities and performances as well as further study of culture and history. Prerequisite: Chinese I.

CHINESE III (MANDARIN)

24404H

1 Credit

This course provides students with new vocabulary items and phrases. Students will further their understanding of grammar, as well as their ability to read expository and narrative articles. Basic writing skills will be introduced. Prerequisite Chinese II.

CHINESE IV (MANDARIN)

24405H

1 Credit

Students will further their understanding of Chinese with advanced grammatical study, reading and conversation designed to help them become familiar with the culture of China. Prerequisite: Chinese III.

FRENCH I

24102

1 Credit

Students gain a basic knowledge of spoken & written French vocabulary through practice in listening, speaking, reading and writing. Students will be introduced to the cultures of France & francophone areas of the world.

FRENCH II

24103

1 Credit

This course is designed to further the understanding & production of the French language through advanced grammar study, reading & conversation, & to familiarize the student with more of the culture of French speaking countries. Prerequisite: French I.

FRENCH III

24104H

1 Credit

Students taking this course are expected to speak French and use their acquired knowledge in reading short stories, literary, historical and cultural articles, writing essays & compositions and oral presentations. Prerequisite: French II.

FRENCH IV

24105H

1 Credit

This course is designed to practice the skills gained in earlier study as well as further the understanding of French speaking countries and their culture through intensive literature, culture and historical study. Prerequisite: French III.

ITALIAN I (OFFERED AT MHS ONLY)

24152

1 Credit

This course is designed to give students the basic knowledge of spoken & written Italian vocabulary through practice in listening, speaking, reading and writing. Students will be introduced to the culture.

ITALIAN II (OFFERED AT MHS ONLY)

24153

1 Credit

Students will further their understanding of Italian with intermediate grammatical study, reading and conversation designed to help them become familiar with the culture of Italy. Prerequisite: Italian I.

ITALIAN III (OFFERED AT MHS ONLY)

24154H

1 Credit

Students will further their understanding of Italian with advanced grammatical study, reading and conversation designed to help them become familiar with the culture of Italy. Prerequisite: Italian II.

ITALIAN IV (OFFERED AT MHS ONLY)

24155H

1 Credit

Italian IV stresses advanced grammar, reading, writing & conversation with the use of technology, historical and current literature and cultural study. Students speak in Italian and the course is taught entirely in Italian. Prerequisite: Italian III.

JAPANESE I

24452

1 Credit

An introduction to Japanese through the use of hiragana, katakana & basic concepts and uses of kanji. Students learn to speak, read and write about topics such as school, friends and family in the target language. They are also introduced to the culture and history of Japan.

JAPANESE II

24453

1 Credit

Knowledge of Japanese is increased through conversation, grammatical study & reading. Students build on writing skills and continue to learn about the history and culture of Japan. Prerequisite: Japanese I.

JAPANESE III

24454H

1 Credit

More sophisticated conversation and advanced grammar are studied. Students speak Japanese and use their acquired knowledge to read short stories and hold discussions related to Japanese culture. Essay writing and compositions will be introduced. Prerequisite: Japanese II.

JAPANESE IV

24455H

1 Credit

Emphasis is placed on refining reading, writing, listening & speaking. Advanced readings are introduced & Japanese culture will be studied more extensively. Prerequisite: Japanese III.

LINGUISTICS AND HUMAN LANGUAGE

(OFFERED AT MHS ONLY)

1 Credit

This course will take you on a journey through languages around the world. You will learn about why humans have language and how it affects our society. You will work with languages you've never heard of before to figure out how they function. Want to learn an alphabet that you can use no matter what language is being spoken? We will give it all to you! After this class, you will realize that everything you learned is a part of your everyday life. You'll feel like you have a new filter to see the world through. Open your eyes to Linguistics! Prerequisite: Any Level II World Language Course

SPANISH I**24052****1 Credit**

This course is designed to give students a basic knowledge of spoken and written vocabulary through practice in listening, speaking, reading and writing. Students will be introduced to the culture of Spanish speaking countries.

SPANISH II**24053****1 Credit**

Students will further their understanding of Spanish with advanced grammatical study, reading and conversation designed to help them become familiar with the cultures of Spanish-speaking nations. Prerequisite: Spanish I.

SPANISH III**24054H****1 Credit**

Students are expected to speak Spanish and use their acquired knowledge to: 1) read short stories and literary, historical & cultural articles; 2) write essays and compositions; 3) deliver oral presentations. Prerequisite: Spanish II.

SPANISH IV**24055H****1 Credit**

Students practice skills gained in earlier study and further their understanding of Spanish speaking countries and cultures through intensive literature, culture, and historical study. Prerequisite: Spanish III.

WORLD LANGUAGE CAPSTONE**24940****1 Credit**

This course is designed to immerse students in real life application and experiences with the language of study. Students will work independently at school to prepare for these opportunities in the community. These experiences might include internships at local schools, libraries, and businesses where the language is spoken. **Prerequisite:** Any Level III World Language Course

AP FRENCH LANGUAGE AND CULTURE**24065****1 Credit**

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.

AP JAPANESE LANGUAGE AND CULTURE**24066****1 Credit**

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.

AP SPANISH LANGUAGE AND CULTURE**24064****1 Credit**

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

DUAL ENROLLMENT- WESLEY 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 or optional course, the student is responsible for the cost of the course.

INTERMEDIATE FRENCH**24920****1 Credit**

Provides thorough review and expansion of French vocabulary and grammar. An integrated tape program is used. The course also provides an introduction to cultural and literary aspects of French heritage. Prerequisite: Two years of high school French with a grade of C or better.

INTERMEDIATE SPANISH**24910****1 Credit**

Provides review of basic vocabulary and structural patterns, after which the student continues to expand vocabulary and refine communicative skills through reading and discussion of literary and cultural texts and films from the Hispanic world. The course also introduces composition in Spanish. Prerequisite: Two years of high school Spanish with a grade of C or better.

AGRISCIENCE SUMMER WORK EXPERIENCE

AG9700

100 Summer Hours

1/3 Credit

Agriscience path/way students in grades 9-11 who will be competing in Career Development Events, showing animals at the State Fair, building displays, preparing Agriscience Fair projects or working in an ag-related job may sign up for this experience. Students are visited by an agriscience teacher on a regular basis to review progress, meet with employers, and make recommendations. A written summary by the student and evaluations by the supervising teacher, employer, and parents will be included in the completed record book.

FOUNDATIONS OF ANIMAL SCIENCE

AG9119

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 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

AG9120

1 Credit

This course enables students to apply animal science principles including: biosecurity principles and environmental conditions on animals, scientific principles of anatomy, physiology and

reproduction, nutrition, animal health and 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 and leadership development events through a school-based three-component agricultural education model.

DOMESTIC ANIMAL MANGEMENT

AG9127

1 Credit

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.

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: Animal Science III

FUNDAMENTALS OF PLANT SCIENCE

AG9121

1 Credit

This course explores the plant industries and food system of the United States in order 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.

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

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.

PLANTS SYSTEMS MANAGEMENT & SUSTAINABILITY

AG9123

1 Credit

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.

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 in

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: Horticultural III.

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.

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 soils and land use practices, the impact of chemicals in 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.

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 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.

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 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.

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: NRES III

HEALTH SCIENCES

ESSENTIALS OF HEALTH CAREERS

HPE7200

1 Credit

This course is for juniors and above and offers students the opportunity to become effective and efficient health-care 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 Delaware Technical Community College (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 Delaware Technical Community College. 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. 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

FUNDAMENTALS OF HEALTH SCIENCES

HPE7100

1 Credit

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 Delaware Technical Community College (BIO100-Medical Terminology) Upon successful completion of the course (75% or better), students will receive three college credits from Delaware Technical Community College. Prerequisite: Human Growth and Development.

HUMAN GROWTH AND DEVELOPMENT

FCS9330

1 Credit

Human Growth and Development (HGD) introduces students to human physical, cognitive, social, and emotional development beginning with conception and ending with early adolescence. Theories supporting current thinking and research on human development are examined, as well as the processes and influences affecting the developing person. Further, students explore challenges to normal growth and development.

PERSONAL WELLNESS

08057

1 Credit

This course introduces students to the importance of wellness in relation to 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

DUAL ENROLLMENT COURSE -WILMINGTON 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.

ANATOMY AND PHYSIOLOGY

03910

1 Credit

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 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.

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

SPORTS MEDICINE

HPE7015

1 Credit

Students are introduced to the theory of Sports Medicine including major dynamic trends in the field of athletic training. The following topics are studied: Professional Development and Responsibilities, Risk Management, Pathology of Sports Injury, Management Skills, and General Medical Conditions. Students are responsible for completing 60 hours of volunteer service to high school athletes under the supervision of the certified Athletic Trainer.

BANKING SERVICES**BFMT9592****1 Credit**

In this course, students work in the high school bank as tellers and customer service representatives where responsibilities include: checking and savings transactions, maintaining a cash drawer, recommending products to fulfill customer needs, and opening new accounts and account maintenance. Assist in the operation of the Bank At School program in an elementary school where they will open savings accounts and collect deposits. Students are responsible for knowledge of bank products and services and must adhere to all student intern guidelines. They must exhibit a high level of customer service and respect client privacy at all times. Student bankers will conduct marketing projects to promote the school bank and cash management operations. Juniors and Seniors who have completed two levels of the NAF Academy of Finance Pathway are eligible for this course. An interview process will be conducted to enter this course. Prerequisites: Fundamentals of Finance and Principles of Accounting.

FINANCIAL SERVICES**12101****1 Credit**

Services provides students with the history of money and banking and the origins of banking in the United States. Students will learn to research and discern between investment options through an in-depth study of the financial services industry. Students are also introduced to the insurance industry and the critical role of insurance in the financial services sector. This is the capstone senior year course for students in the Academy of Finance Pathway. Prerequisite: Principles of Accounting

FUNDAMENTALS OF FINANCE**BFMT1500****1 Credit**

This course explores the foundation of financial literacy, the function of finance in society, and the role of a financial planner. Fundamentals of Finance is a prerequisite to other Academy of Finance Pathway courses. This course focuses on income and wealth, financial institutions, and the role of finance in organizations. Students research the impact of technology on the financial services field, explore the role of a financial planner and examine the importance of sound financial planning. An integrated culminating project provides an opportunity for students to demonstrate expertise on issues critical to financial independence.

PRINCIPLES OF ACCOUNTING**BFMT9545****1 Credit**

This course provides students with an understanding of the critical accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Students learn how to apply technology to accounting by creating formulas and inputting data into spreadsheets and/or accounting software such as QuickBooks, Peachtree, etc. Students are introduced to the fundamentals of management accounting, manufacturing and cost accounting, budgeting, accounting for managerial decision making, and financial analysis. Technology will be used for internal decision making, planning, and control. A culminating project incorporates costing and pricing, sales mix analysis, performance report preparation, financial ratio comparisons, and profitability. Prerequisite is Fundamentals of Finance.

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.

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.

THE CULINARY & HOSPITALITY PROFESSIONAL

FCS1501

1 Credit

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.

CULINARY ARTS PRACTICUM

FCS 1700

1 Credit

This course allows students to apply and further develop their knowledge and skills as a professional working in the Culinary and Hospitality industry with the supervision of the practicum instructor. This course gives students the opportunity to apply the theories, principles, skills, concepts and best practices that they have learned in their coursework. Please Note: ServSafe Manager Certification and Uniform are required. This is the capstone senior year course for students in the Culinary and Hospitality Management Pathway. Prerequisite: The Culinary and Hospitality Professional

EARLY CHILDHOOD AS A PROFESSION

19152

1 Credit

In this course, students explore the historical role of the teacher in the early childhood setting and how societal changes have impacted early childhood education. Students explore the responsibilities and opportunities of an effective teacher and consider the function of the teacher as a leader, while understanding the importance of the family. Students also identify personal attributes and professional goals to establish a path to becoming an early childhood professional. Prerequisite: Human Growth and Development.

CURRICULUM AND INSTRUCTION IN EARLY CHILDHOOD

19153

1 Credit

In this course, students explore curriculum delivery models in response to the needs of the early learner. Emphasis is placed on the development of a variety of instructional materials that promote learning and a positive classroom environment. Students analyze the influence of technology and its impact on learning. Further, students develop lesson plans and assessments while practicing appropriate classroom management techniques to maximize the learning process for every student. Prerequisite: Early Childhood as a Profession.

FOUNDATIONS OF CURRICULUM AND INSTRUCTION

19155

1 Credit

In this course students explore curriculum delivery models in response to the needs of the learner. Emphasis is placed on the development of a variety of instructional materials that promote learning and a supportive classroom environment. Students analyze the influence of technology and impact on learning. Students develop lesson plans and assessments while practicing appropriate classroom management techniques to maximize the learning process for every student. Prerequisite: Teaching as a Profession.

HUMAN GROWTH AND DEVELOPMENT

FCS9330

1 Credit

In this course students are introduced to human physical, cognitive, social, and emotional development beginning with conception and ending with early adolescence. Theories supporting current thinking and research on human development are examined, as well as the processes and influences affecting the developing person. Further, students explore challenges to normal growth and development.

TEACHING AS A PROFESSION

19154

1 Credit

In this course students explore the role of the teacher in the past, present, and future in order to understand the importance of teaching in American society and its historical significance and social impact. Students explore the responsibilities and opportunities of an effective teacher at various grade bands and consider the function of the teacher as a leader. Students also identify personal professional goals to establish a path to becoming a teacher. Prerequisite: Human Growth and Development.

**DUAL ENROLLMENT-
WILMINGTON 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.

**CREATING ENVIRONMENTS
FOR LEARNING**

FCS 9340

1 Credit

Students learn concepts and strategies for preventing discipline problems as well as models of discipline for use if such problems occur in the early childhood/elementary classroom. Preventive strategies include organizing the classroom effectively, maintaining on-task behavior, positive interactions, developing and teaching rules and behavioral expectations, and ignoring attention-getting behavior. Discipline models reviewed by students include student-centered approaches including the Supportive Model and Transactional Analysis, and such teacher-directed approaches as Assertive Discipline and Behavior Modification. This is the capstone senior year course for students in the K-12 Teacher Academy Pathway. Prerequisite: Foundations of Curriculum and Instruction.

**DUAL ENROLLMENT-
DELAWARE TECHNICAL
COMMUNITY COLLEGE (DTCC)**

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.

**EDC120 CONTEMPORARY ISSUES
IN EARLY CHILDHOOD**

ECE120

1 Credit

In this course, students learn various models, theories, and issues in early childhood education programs and discusses the impact of these items on children’s learning and development. Multiple facets of professionalism are explored in this course. The course requires 10 hours of observation. This is the capstone senior year course for students in the Early Childhood Teacher Academy Pathway. Prerequisite: Curriculum and Instruction in Early Childhood.

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

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.

CYBERSECURITY**(AVAILABLE 20-21 SY)****CS505****1 Credit**

This 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.

DIGITAL ELECTRONICS**TE9312****1 Credit**

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. Prerequisite: Principles of Engineering.

ENGINEERING DESIGN AND DEVELOPMENT**TE9315****1 Credit**

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.

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 splatter 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. Students are encouraged to have successfully completed or be concurrently enrolled in Biology I, Chemistry I, and Anatomy & Physiology I.

FORENSIC SCIENCE II**03215****1 Credit**

Forensic Science 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 communications 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 a case-study approach to frame each curricular unit. Prerequisite for this course is Forensic Science I.

INTRODUCTION TO ENGINEERING DESIGN

TE9310

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: Integrated Math I.

PRINCIPLES OF ENGINEERING

TE9105

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.

AP COMPUTER SCIENCE PRINCIPLES

CS 400

1 Credit

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 in the spring.

AP COMPUTER SCIENCE A

CS 500

1 Credit

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

DUAL ENROLLMENT- WEST VIRGINIA 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. This course runs on the West Virginia University semester schedule. Fall classes may begin prior to the Appoquinimink School District academic year. West Virginia University determines the semester in which the course will be offered.

ENGINEERING PROBLEM SOLVING I

ENGR 101

Fully Online

1 Credit

Engineering problem solving methodologies and analysis. Use of computers in problem solving, technical report writing, team based project work and presentations. Prerequisite: Calculus

FORENSIC SCIENCE

15055

Fully Online

1 Credit

Forensics is the application of science for solving crimes. This is a course rich in exploration and lab investigation which applies many disciplines of scientific study such as biology/anatomy, chemistry, and physics to solving crimes. There is an emphasis in complex reasoning, constructing arguments from evidence, using mathematics in computational thinking, and critical thinking. Through lessons, lab analysis of fictional crime scenarios, and real-world case studies, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

Prerequisites: Biology and Chemistry

APPLICATIONS OF DIGITAL DESIGN

11991

1 Credit

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.

CERAMICS AND SCULPTURE I

VA9200

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

VA9201

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.

DRAWING AND PAINTING I

VA9300

1 Credit

This course develops the two-dimensional art techniques of drawing and painting through the direct observation of still life objects. Broad topics include color theory, critique methods, linear perspective, calligraphy, and artist research. Emphasis will be placed on exploring various media and techniques. \$10 materials fee. Prerequisite: Foundations of Art.

DRAWING AND PAINTING II

VA9301

1 Credit

This course further develops the 2-dimensional art techniques of drawing and painting through the subjects of the figure and self-portraits. Broad topics include acrylic painting, printmaking, art criticism, and art careers. Emphasis will be placed on creating a personal style and referencing artists in creating a body of artwork that can be utilized in AP Studio Art. \$10 materials fee. Prerequisite: Drawing and Painting I.

FOUNDATIONS OF ART

VA9100

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.

FOUNDATIONS OF DIGITAL DESIGN

11002

1 Credit

In this course, students are introduced to the foundational principles, techniques, and skills of visual communications. 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

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 or Graphic Design I.

AP ART HISTORY

VA9512

1 Credit

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 STUDIO ART**VA9559****1 Credit**

This rigorous course provides serious art students with the challenge of creating a body of artwork that demonstrates: 1) quality through a mastery of drawing or design, 2) concentration through an in depth exploration of a particular design concern, and 3) breadth through a variety of media and techniques. Students must submit a 24-piece portfolio to the College Board for consideration in receiving advanced placement and/or credits at the college level. \$10 materials fee. Prerequisites: Drawing & Painting I and Drawing & Painting II.

ADVANCED CHORUS**PA9527****1 Credit**

Entrance into Advanced Chorus is gained through successful participation in General Chorus and hearings throughout the year. A variety of 4 or more part vocal music will be performed from all genres. Training will center on healthy vocal production and sight singing. The ability to match pitch is required. Students should expect to have a private hearing with the instructor outside of the school day. Several out of school performances will be required during the year.

GENERAL CHORUS**PA9522****1 Credit**

This beginner-level class is designed for singers with limited part-singing experience. Training centers on healthy vocal production and sight singing. The ability to match pitch is required. Students should expect to have a private hearing with the instructor prior to the start of the school year. Students will also be

required to perform in a minimum of three concerts that occur outside of the school day.

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.

INTRODUCTION TO GUITAR**– AHS ONLY****PA9104****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**PA9535****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**PA9545****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.

MUSIC THEORY I**PA9518****1 Credit**

Music Theory will introduce students to the fundamentals of reading, writing, composing, performing, and understanding music. Other genres of music such as jazz, movie scores, pop, and rock may also be explored. Music technology may be used to aid in composition.

PERCUSSION ENSEMBLE**(MHS 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. Prerequisite: 9th Grade–Experience in Gr. 8 Band; Gr. 10-12–Experience in a high school performing ensemble.

PHILHARMONIC ORCHESTRA

PA9536

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 KEYBOARDING I

PA9524

1 Credit

Students will learn how to play the piano. Major focuses in this course include, but are not limited to, correct piano technique, music theory, scales & short compositions. No prior experience is necessary.

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.

AP MUSIC THEORY

PA9519

1 Credit

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.

FUNDAMENTALS OF ACTING I

PA9505

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 intro-

duced 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

PA9506

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

PA9507

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.

STAGECRAFT I

PA9560

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

PA9561

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.

MUSICAL THEATRE

PERFORMANCE/THEATRE DANCE

PA9510

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 your 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. Prerequisite: Fundamentals of Acting I.

DUAL ENROLLMENT COURSE- WILMINGTON 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.

PHI 100 INTRODUCTION TO CRITICAL THINKING

04930

1 Semester

1 Credit

This introductory course challenges students with the question: “Why do you think the way you do?” It gives practical consideration to overcoming thinking errors, developing ethical thought, and applying career-specific principles of effective critical thinking to real-life situations.

MUS 101 MUSIC APPRECIATION

PA9600

1 Credit

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.

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.

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. Content areas will include: Personality; Stress; Mental Disorders; Relationships; Nutrition; Weight Management; Non-infectious Disease; Human Growth and Development; AIDS and other STDs; Alcohol, Tobacco and other drugs; Personal Safety/First Aid.

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.

AEROSPACE SCIENCE I- MHS ONLY

ROTC7006

1 Credit

This foundation course explores the heritage of flight, 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 ONLY

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 ONLY

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 ONLY 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 ONLY

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 ONLY

ROTC9101

1 Credit

Students gain an 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 ONLY

ROTC9102

1 Credit

This course explores the historical significance of national military and non-military 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 ONLY 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.

JDG GRADE 9

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, life skills math.

JDG GRADE 10

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 insurances. Prerequisite: JDG 9.

JDG GRADE 11

JDG403

1 Credit

Participants learn about a 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. Prerequisite: JDG 10.

JDG GRADE 12

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 12 may be the student's co-op class ONLY if JDG is the student's Pathway (the student's third or fourth year of JDG classes) and the counselor approves it. Prerequisite: JDG 11.

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 skill 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.

FOUNDATIONS OF CONSTRUCTION

17013

1 Credit

This course will provide students with the 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).

PRINCIPLES OF MANUFACTURING

MSS100

1 Credit

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

ELECTRICAL SYSTEMS AND CONTROLS

MSS111

1 Credit

This course provides students with real-world applications in electrical systems and controls. This course will focus on applied mathematics for electricity, AC and DC electrical circuits, electrical motor controls, and concepts of Lean Manufacturing and 5-S. Prerequisite: Principles of Manufacturing.

FLUID POWER

MSS112

1 Credit

This course provides students with real-world applications in fluid power. This course will focus on hydraulics, pneumatics, and electro-fluid power. Prerequisite: Electrical Systems and Controls

ELECTRO-MECHANICAL SYSTEMS

MSS113

1 Credit

This course provides students with real-world applications in electro-mechanical systems. This course will focus on mechanical drives and programmable logic controllers (PLCs). Prerequisite: Fluid Power.

INTRODUCTION TO MACHINERY OPERATION

17023

1 Credit

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: Fundamentals of Construction Technology.

ADVANCED MACHINERY OPERATION

17033

1 Credit

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

1 Credit

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.



Appoquinimink School District

THE WORLD IS OUR CAMPUS

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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**Asst. Superintendent,
Grades K-5** **Sharon Pepukayi, Ed.D.**

**Asst. Superintendent,
Grades 6-12** **Thomas J. Vari, Ed.D.**

**Executive Director,
Teaching & Learning** **Kalia Reynolds, Ed.D.**

