

**Sussex Central  
High School  
Georgetown, Delaware**



**Course Catalog  
2023 - 2024**

## School Vision

To be a premier comprehensive high school in the State of Delaware and the school of choice in Sussex County.



## School Mission

Sussex Central High School, a diverse and dynamic community, strives to prepare students to be life-long learners and responsible global citizens.

As you begin planning your next school year, we hope that you will continue to experience success in your academic endeavors. Sussex Central High School offers a wide range of rigorous courses and programs that will prepare you for the challenges of college and the workplace. In reviewing your graduation requirements, use this catalog to assist you in planning the most appropriate program for your educational career at Sussex Central High School.

**Annual Public Notice of Nondiscrimination**

As required by the 1979 Guidelines for Eliminating Discrimination in Vocational Education Programs (34 CRF Part 100, App. B, IV-O)

**Sussex Central High School | 26026 Patriots Way | Georgetown DE 19947 | (302) 934-3166**

Sussex Central High School is pleased to announce that it is offering, among other programs, the following **Career and Technical (Vocational) Education Pathways** for the school year:

<p align="center"><b><u>AGRI-SCIENCE</u></b></p> <p>This program encompasses the following pathways:</p>	<p align="center"><b><u>BUSINESS</u></b></p> <p>This program encompasses the following pathways:</p>
<ul style="list-style-type: none"> <li>• <b>Animal Science</b> offers students hands-on activities to enhance their understanding of agricultural animal sciences.</li> <li>• <b>Plant &amp; Horticulture Science</b> offers students hands-on activities to enhance their understanding of agricultural horticultural sciences</li> <li>• <b>Agricultural Power &amp; Engineering</b> offers students hands-on activities to enhance their understanding of agricultural mechanics</li> <li>• <b>Agricultural Structures &amp; Engineering</b> prepares interested students for a job/major related to architecture, mechanical engineering, contracting, surveying, drafting, and the construction trades.</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Academy of Finance</b> provides students with knowledge of finance in society, it's role in organizations and the impact of technology in the financial services field</li> <li>• <b>Marketing Management</b> prepares students to understand, organize, design, and interpret marketing info for the ever-changing business world.</li> </ul>
<p align="center"><b><u>MEDICAL</u></b></p> <p>This program encompasses the following pathways:</p>	<p align="center"><b><u>TECHNICAL ED</u></b></p> <p>This program encompasses the following pathways:</p> <ul style="list-style-type: none"> <li>• <b>Audio, Radio &amp; Video Engineering</b> introduces students to careers in the area of broadcast production.</li> <li>• <b>Digital Communication Technology</b> uses current software to produce quality digital designs.</li> <li>• <b>Computer Information Sciences</b> introduces the student to the world of computer science.</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Allied Health</b> introduces students to medical terminology and exploration of careers in the medical profession and related allied health services.</li> </ul>	<p align="center"><b><u>TEACHER ACADEMY</u></b></p> <p>This program encompasses the following pathways:</p> <ul style="list-style-type: none"> <li>• <b>Teacher Academy</b> engages students in developing a realistic understanding of teaching while preparing students for a variety of careers in education.</li> </ul>

Admission to these programs is open to all students enrolled at SCHS. Enrollment in higher level courses requires the completion of pre-requisite courses within the same pathway. SCHS does not discriminate in employment, educational programs, services or activities based on race, color, national origin, sex, age, or disability in accordance with state and federal laws. The District offers additional services to students with limited English language skills or with disabilities so that they may benefit from these programs. For additional information and assistance, please contact the following at the high school:

**School Admissions/Programs:** Dr. Bradley Layfield  
**Sex Discrimination (Title IX):** Mr. Matt Jones

**Special Education:** Mrs. Jackie Johnson  
**504 Plans:** Mrs. Aerin Donovan

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*The course descriptions provided herein are for the guidance of students and their guardians; however, Sussex Central High School reserves the right to add courses, remove courses, or otherwise change course descriptions without prior notice.*

# GRADUATION REQUIREMENTS

Sussex Central High School is committed to providing a quality well-rounded educational program for all students. Our core subject areas provide rigorous preparation for the Delaware Comprehensive Assessment System (DCAS), Scholastic Aptitude (SAT), and for post secondary higher educational institutions. Our career and technical programs provide a high level of activities for students using modern equipment and innovative ideas. The chart below indicates the minimal coursework required for a student to graduate successfully from Sussex Central High School:

English	4.0 credits
Math	4.0 credits
Social Studies	3.0 credits
Science	3.0 credits
Physical Education	1.0 credits
Health	0.5 credits
World Language	2.0 credits
Career Pathways	3.0 credits
Electives (Other)	4.0 credits
<hr/>	
<b>Total Credits</b>	<b>24.5</b>

## Indian River School District Policy

Students who acquire a minimum of 24.5 credits as set forth in this policy, will receive an Indian River School District diploma as defined in the pending legislation of Title 14, Section 505 of the Delaware Code.

Students receiving a diploma must earn a minimum of three (3) credits in a planned program of sequenced or specialized courses (Career Pathway) and four (4) credits in elective courses that comply with the students' Education Plan.

## **COURSE LEVELS**

The focus of our core subjects is to prepare students for post-secondary success. Critical reading and writing is strongly emphasized in all four major core areas: English, math, science and social studies. Below is a brief description of each academic level:

### **International Baccalaureate (IB)**

The International Baccalaureate Programme is recognized worldwide as an interdisciplinary approach to a liberal arts education in a rigorous environment. The International Baccalaureate Organization was founded in 1965, to develop an international standard for high student achievement that could be recognized worldwide. All curriculums at Sussex Central High School are based on Delaware State Standards and the Common Core. All International Baccalaureate courses carry a grade point weighting of **5.0**.

### **Academic Challenge (AC)**

The Sussex County AC program is where qualified students can take accelerated courses in English and/or mathematics at Del Tech. It is possible to earn up to twenty-seven college credits (12 English, 15 Math) from Del Tech through this program. Must have started program in 8<sup>th</sup> grade. AC courses in 8<sup>th</sup> - 10<sup>th</sup> grade carry a weight of **4.5**. AC courses in 11<sup>th</sup> – 12<sup>th</sup> grade carry a grade point weighting of **5.0**.

### **Advanced Placement (AP)**

Advanced placement courses are offered in many areas. These courses are aligned with the National Advanced Placement Curriculum, which may allow students to earn college credit while in high school by passing the Advanced Placement Exam. These courses are rigorous and require the student to dedicate him/herself to the work involved; extensive reading and writing outside of class is required and may include a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers). All Advanced Placement courses carry a grade point weighting of **5.0**.

### **Honors**

Our honors programs are designed to challenge the highly motivated student. The design of these types of classes helps prepare students for Advanced Placement courses. Students enrolled in honors levels courses will be required to complete more rigorous coursework and may include a summer assignment preceding the start of the course. All honors level courses carry a grade point weighting of **4.5**.

### **College Prep**

Our college preparatory program is designed to prepare students for a 4-year post secondary college or university. This traditional level will provide the students with a course of study with emphasis placed on preparing the students for college level expectations. All academic courses carry a grade point weighting of **4.00**.

## COURSE SELECTIONS

- All courses are one credit unless noted.
- All elective courses NOT labeled IB, AP, or Honors are not weighted.

### ENGLISH LANGUAGE ARTS

#### **ELA-092 ENGLISH 9 Honors**

This course is designed to prepare students for the reading, writing, speaking, and listening expectations of future English courses. There will be a heavy emphasis on developing stamina and skills in both reading and writing. Honors English 9 students will also sharpen their critical-thinking, creative-thinking, and reflective-thinking abilities. Students will read a variety of texts in a variety of genres with a focus on developing the analytical skills necessary for success in advanced English courses. In addition, students will be expected to hone their collaboration and speaking skills by participating in various formats of class discussion and debate. The course aligns with Delaware state and National standards with additional alignment to advanced coursework. **Honors Requirement: Teacher recommendation, advanced reading and writing skills, final grade of a B+ or higher in 8<sup>th</sup> grade English, and a sincere commitment to developing metacognitive skills in a rigorous environment.**

#### **ELA-093 ENGLISH 9 College Prep**

This course extends and refines the writing, speaking, listening, reading, and critical thinking skills attained by students in middle school. A survey approach to multi-cultural literature will be studied for the purpose of acquiring an overview of expressive, persuasive, and informative literature through reading and writing these texts. The research process will be introduced emphasizing MLA formatting. This course aligns with State and National Standards and prepares students for the State Test.

#### **ELA-102 ENGLISH 10 Honors**

This course extends and refines the writing, speaking, listening, reading, and skills attained by students in English 9 in preparation for a direct transition to advanced courses. To further develop analytical skills, a heavy emphasis is placed on students learning how to ask critical questions in order to develop unique insights into complex texts in a variety of genres. Students will be expected to polish their collaboration and speaking skills through various formats of class discussion and debate. Honors English 10 students will grow their confidence as critical, creative, and reflective thinkers. The course aligns with Delaware state and National standards with additional alignment to IP and AB coursework. **Honors Requirement: Teacher recommendation, advanced reading and writing skills, final grade of B+ or higher, and a sincere commitment to developing metacognitive skills in a rigorous environment.**

#### **ELA-103 ENGLISH 10 College Prep**

This course extends and refines the writing, speaking, listening, reading, and critical thinking skills attained by students in English 9. Students study multi-cultural narrative, expressive, persuasive, and informative texts in the forms of short stories, poetry, non-fiction, drama, and novel. Reading comprehension and vocabulary skills will be developed to advance state grade level expectations. Through independent projects and readings, students will increase critical and creative thinking. The research process will be extended and refined emphasizing MLA format. This course aligns with State and National Standards and prepares students for the State Test.

#### **ELA-111 AP ENGLISH LANGUAGE AND COMPOSITION**

**This course is designed for the highly motivated student who has advanced reading and writing skills, and who seeks advanced placement standing in a four year college.** Literature study will reflect a refinement of linguistic and rhetorical analysis and independent evaluation of authors' choices in these areas. Students will concentrate on various composition writings, including analytical, argumentative, and synthesis essays. While writing, students will prove theses on how written language works, using concrete examples which analyze diction, syntax, and rhetorical style. Language analysis and research essays are required, and independent projects and readings are vigorously pursued. The study of literature will include thematic and historical perspectives. Formal

vocabulary study relevant to the course is included. Students enrolling in this course will be expected to take an AP exam. This course aligns with State and National Standards and prepares students for the AP exam. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in previous Honors course. Students may need to complete a summer reading assignment and writings. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

#### **ELA-112 ENGLISH 11 Honors**

**This course is designed for the motivated student who has advanced reading and writing skills, and who seeks extended preparation for a two or four year college.** This course extends and refines the writing, speaking, listening, reading, and critical thinking skills attained by students in English 9 and 10. An historical and chronological approach to American literature will be studied for the purpose of acquiring an overview of the American culture. Composition study will continue through refinement of multi-paragraph compositions and essays analyzing literature. Students will review grammar, mechanics, and vocabulary to further improve oral and written communications. The research process and MLA formatting will be extended and refined through a full-length research paper. This course aligns with State and National Standards and prepares students for the next grade level. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+ or higher.**

#### **ELA-113 ENGLISH 11 College Prep**

This course extends and refines the writing, speaking, listening, reading, and critical thinking skills attained by students in English 9 and 10. An historical and chronological approach to American literature will be studied for the purpose of acquiring an overview of the American culture. Composition study will continue through refinement of multi-paragraph compositions and essays analyzing literature. Students will review grammar, mechanics, and vocabulary to further improve oral and written communications. The research process and MLA formatting will be extended and refined through a full-length research paper. This course aligns with State and National Standards and prepares students for the next grade level.

#### **ELA-121 AP ENGLISH LITERATURE AND COMPOSITION**

**This course is designed for the highly motivated student who has advanced reading and writing skills, and who seeks advanced placement standing in a four year college.** The study of English and world literature will examine the thematic, historical, social, political, and cultural contexts that inform works from ancient to modern times. Students will concentrate on varied composition writing using sound, independent judgment, logic, and argument, as well as critical literary theory. Extensive research is required, and independent projects and readings are vigorously pursued. Literature study will reflect a refinement of dialectic response applications in seminar-style discussions; participation and class leadership are mandatory. Vocabulary study relevant to the course is included. Students enrolling in this course will be expected to take an AP exam. This course aligns with State and National Standards and prepares students for the AP exam. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer reading assignment and writings. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

#### **ELA-122 ENGLISH 12 Honors**

**This course is designed for the motivated student who has advanced reading and writing skills, and who seeks extended preparation for a two or four year college.** This course extends and refines the writing, speaking, listening, reading, and critical thinking skills attained by students in English 9, 10, and 11. British and world literature will be studied for the purpose of examining the social, historical, and thematic context of literature. Composition study will continue through refinement of multi-paragraph compositions and essays analyzing literature. Students will review grammar, mechanics, and vocabulary to further improve oral and written communications. The research process and MLA formatting will be extended and refined through research papers/projects. This course aligns with State and National Standards and prepares students for post-secondary pursuits. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+ or higher.**



**ELA-123 ENGLISH 12 College Prep**

This course extends and refines the writing, speaking, listening, reading, and critical thinking skills attained by students in English 9, 10, and 11. British and world literature will be studied for the purpose of examining the social, historical, and thematic context of literature. Composition study will continue through refinement of multi-paragraph compositions and essays analyzing literature. Students will review grammar, mechanics, and vocabulary to further improve oral and written communications. The research process and MLA formatting will be extended and refined through research papers/projects. This course aligns with State and National Standards and prepares students for post-secondary pursuits.

# MATHEMATICS

## **MATH-093 ALGEBRA I College Prep**

Algebra I is a high school mathematics course that provides a strong foundation in algebraic concepts and skills. The course uses the Carnegie Learning Algebra I textbook and MATHia software, which are designed to engage students in interactive and personalized learning experiences. Throughout the course, students will explore algebraic expressions, equations, and functions, as well as graphing and analyzing linear and quadratic equations. They will also learn about systems of equations and inequalities, polynomials, and factoring, and apply these concepts to solve real-world problems. In addition to building their algebraic skills, students will also develop their critical thinking, problem-solving, and communication skills through collaborative activities and group discussions. They will have access to online resources and practice problems to reinforce their understanding of the concepts and prepare for assessments.

## **MATH-102 GEOMETRY Honors**

Aligned to Delaware's statewide standards for grade 10, honors level Geometry continues to develop major mathematical ideas around the following interwoven math strands: geometry, algebra and functions, probability and statistics, and trigonometry. Units studied in this course include "Coordinate Methods," "Functions, Equations, and Systems," "Matrix Methods," "Regression and Correlation," "Nonlinear Functions and Equations," "Trigonometric Methods," and "Probability Distributions." This course emphasizes mathematical modeling and reasoning, and features full use of graphing calculators and other technology. **Students in this course will be expected to complete a highly academic and rigorous level of study. Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+. Prerequisite: Algebra I**

## **MATH-103 GEOMETRY College Prep**

This course is designed to provide students with a strong foundation in geometric concepts and problem-solving skills. Throughout the course, students will use the Carnegie Learning Math Solutions Geometry book and MATHia software, which provides a comprehensive and engaging approach to learning geometry. Topics covered in this course include Points, Lines, and Planes, Angles and Parallel Lines, Triangles and Congruence, Quadrilaterals and Similarity, Circles and Constructions, Three-Dimensional Figures, And Coordinate Geometry. Students will learn to use deductive reasoning to prove theorems and solve problems, as well as to analyze and interpret real-world situations using geometric concepts. They will also develop problem-solving skills through a variety of activities, including group work, independent projects, and online practice on MATHia. **Prerequisite: Algebra I.**

## **MATH-112 ALGEBRA II Honors**

Aligned to Delaware's statewide standards for grade 11, Algebra II continues to develop major mathematical ideas around the following interwoven math strands: algebra and functions, probability and statistics, and geometry and trigonometry. Units studied in this course include "Reasoning and Proof," "Inequalities and Linear Programming," "Similarity and Congruence," "Samples and Variation," "Polynomial and Rational Functions," "Circles and Circular Functions," "Recursion and Iteration," and "Inverse Functions." This course emphasizes mathematical modeling and reasoning, and features full use of graphing calculators and other technology. **Students in this course will be expected to complete a highly academic and rigorous level of study. Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+. Prerequisite: Geometry (or equivalent 10<sup>th</sup> grade Honors Courses).**

## **MATH-113 ALGEBRA II College Prep**

This course is designed to build on the concepts learned in Algebra I and expand students' understanding of algebraic functions and their applications. Throughout the course, students will use the Carnegie Learning Math Solutions materials, HSMS ALGEBRA 2, 4TH ED., which provides a comprehensive and engaging approach to learning algebra. Topics in this course include Quadratic Functions and Equations, Polynomial Functions and Equations, Radical Functions and Equations, Exponential and Logarithmic Functions, Trigonometric Functions and

Graphs, and Systems of Equations and Inequalities. Students will learn to solve equations and inequalities, graph functions, and analyze and interpret real-world data using algebraic methods. They will also develop problem-solving skills through a variety of activities, including group work, independent projects, and MATHia practice. By the end of the course, students will have a solid understanding of advanced algebraic concepts and be well-prepared for further study in mathematics and related fields. **Prerequisite: Geometry.**

### **MATH-133 PRECALCULUS AND TRIGONOMETRY College Prep**

This course is designed for college bound students and covers elementary functions (polynomials, rational, logarithmic, circular and inverse) with an introduction to analytical geometry in one, two and three dimensions.

**Prerequisite: Algebra II.**

### **MATH-131 AP PRECALCULUS \*new**

In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. AP Precalculus prepares students for other college-level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. **Students in this course will be expected to complete a highly academic and rigorous level of study. AP Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+. Prerequisite: Algebra II.**

### **MATH-141 AP CALCULUS AB**

This course will cover the topics of differential and integral calculus as included in a first semester college calculus course. Specific topics for the AP test will also be covered in depth. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers). Prerequisites: Pre-calculus and Trigonometry.**

### **MATH-123 FOUNDATIONS FOR MATHEMATICS**

This course is designed for students who are interested in pursuing non-mathematics- or non-science related fields in post-secondary institutions, attend technical schools, or join a branch of the armed forces. This dual-natured course is designed for the specific purpose of preparing students to enter a typical post-secondary algebra course as well as prepared students to understand and manage personal financial skills. This course will stress review of basic topics covered in previous math courses. Personal finance topics may include but are not limited to managing income, taxes, credit cards and loans, mortgages, and stocks/bonds. This course is for **seniors** only. Any junior seeking to take the course must have administrative approval. (Weight 1.0.)

### **PS-121 AP PROBABILITY AND STATISTICS**

This course introduces students to the major concepts and tools 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. Students should be comfortable with analyzing and solving real-world problems, paying close attention to details and using logic to assist in solving and supporting correct answers. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers). Prerequisite: Algebra II.**

**PS-123 PROBABILITY AND STATISTICS College Prep**

This course is a study of basic probability theory and its application to statistical inference as a basis for decision-making. It is available for students who have successfully completed Integrated Algebra II and who exhibit an aptitude to benefit from the course. It has wide applications in many fields to include nursing, medicine, business, psychology, biological science and education. Students should be comfortable with analyzing and solving real-world problems, paying close attention to details and using logic to assist in solving and supporting correct answers. **Prerequisite: Algebra II.**

**DT-MAT 162 STATISTICAL REASONING – DTCC (4 credits/fee required) \*new**

Statistical Reasoning is organized around broad statistical concepts with statistical literacy and thinking as the primary themes. Students are expected to actively *do* statistics which includes analyzing data, constructing and testing hypotheses, solving problems, reflecting on work, and making connections. This is a first course in statistics intended specifically for students in nursing and allied health, but is appropriate for any student whose college and career paths require knowledge of the fundamentals of the collection, analysis, and interpretation of data. **Prerequisites: College ready in mathematics (SAT Math >520 or 3.0+ GPA) Grade: 12**

## **SOCIAL STUDIES**

### **SS-141 AP U.S. GOVERNMENT AND POLITICS**

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **SS-092 CIVICS Honors**

In this course students will study American government, politics, and our economic system and is taught at an accelerated pace. Further, students will gain an understanding of America's place in the modern world with respect to government, foreign policy and global economic patterns with in depth, hands-on, problem-based enrichment activities. This course focuses primarily on Delaware Civics and Economics standards. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.**

### **SS-093 CIVICS College Prep**

In this course students will study American government, politics, and our economic system. Further, students will gain an understanding of America's place in the modern world with respect to government, foreign policy and global economic patterns. This course focuses primarily on Delaware Civics and Economics standards.

### **SS-101 AP WORLD HISTORY: MODERN**

This course investigates significant events, individuals, developments, and processes from 1200 to the present. All Delaware social studies standards are addressed and students will develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+. Students may need to complete a summer assignment.**

### **SS-102 WORLD HISTORY Honors**

This course is a study of human history throughout the world from the Age of Discovery (circa 1500) to the present day and is taught at an accelerated pace. All Delaware social studies standards are addressed in this course with a focus on geography and history standards. Students will build an understanding of the historical relationship between cultures in the modern world through in depth, hands-on, problem-based enrichment activities. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.**

### **SS-103 WORLD HISTORY College Prep**

This course is a study of human history throughout the world from the Age of Discovery (circa 1500) to the present day. All Delaware social studies standards are addressed in this course with a focus on geography and history standards. Students will build an understanding of the historical relationship between cultures in the modern world.

### **SS-111 AP U.S. HISTORY**

This course examines major social studies themes through the lens of U.S. History (1491-present-day). Units of study are determined by key events that resulted in historical turning points, forever changing America. It is an introductory college-level course that moves at an accelerated pace. Success on the AP Exam could result in earning college credits. **This course can be taken as an elective. AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **SS-112 UNITED STATES HISTORY (Civil War- Present) Honors**

The course reviews the foundations of our nation's history and surveys critical events from the Civil War to present day. Delaware social studies standards are addressed with a concentration of history standards. The course will provide a more in depth study of the United States and its role in world events through hands on and problem based enrichment activities. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+**

### **SS-113 UNITED STATES HISTORY College Prep**

This course reviews the foundations of our nation's history and surveys critical events from the Civil War to the present day. Delaware social studies standards are addressed with a concentration of history standards. This course is required for graduation

### **DT-PSY121 GENERAL PSYCHOLOGY – DTCC (3 credits, fee) \*new**

This course is a survey of general principles underlying human behavior and mental processes. Topics include the nervous system, perception, learning, motivation, personality, and psychological disorders. Methods of assessment and research principles are discussed. **Pre-requisites: College ready in reading and writing (SAT Verbal > 480 or 3.0 GPA), Grades: 11, 12**

### **PSY-123 PSYCHOLOGY College Prep**

Students will analyze human behavior and study the human mind. They will explore learning, motivation, emotion and personality theories. Also, students will engage in mental activities such as problem solving, memory exercises, meditation, hypnosis and more. The final portion of the course involves the critical analysis of psychological disorders and an in-depth look at treating mental illness.

### **SS-131 AP HUMAN GEOGRAPHY**

This course is designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and the alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They learn about the methods and tools geographers use in their science and practice. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **CJ-123 CRIMINAL JUSTICE**

This elective course emphasizes the structure of the court system and introduces students to the American legal system and basic legal concepts. Students will be taught the difference between civil and criminal law and will examine the structure and processes of the criminal justice system. Throughout the course students will explore a range of legal issues relevant to students' lives today. **Grades: 11, 12**

## SCIENCE

### **SCI-092 PHYSICAL SCIENCE Honors**

This honors-level course is geared towards preparing students for the rigor of IB and AP courses. This course will push students to think deeply about the content and to explain their thinking clearly and meaningfully through writing and class discussion. Emphasis is placed on student-led discovery and 3D learning as outlined in the NGSS (standards). Students will practice their science skills (modeling, asking questions, evidence-based writing, etc.) and grow in their ability to think like a scientist (finding patterns, scale comparisons, looking at stability and change, etc.) all while learning about matter and its interactions. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.**

### **SCI-093 PHYSICAL SCIENCE College Prep**

This is a freshman-level course and can count towards the three required sciences for graduation. Emphasis is placed on student-led discovery and 3D learning as outlined in the NGSS (standards). Students will practice their science skills (modeling, asking questions, evidence-based writing, etc.) and grow in their ability to think like a scientist (finding patterns, scale comparisons, looking at stability and change, etc.) all while learning about matter and its interactions.

### **SCI-101 AP BIOLOGY**

This course is designed for those students who intend to pursue science related fields in college and who seek advanced placement standing in college. The course will include cell biology, genetics, animal diversity, anatomy and physiology of humans, and ecological interactions of organisms in the biosphere. Laboratory work will be stressed. **AP Requirement: Due to the rigor of this course, students are required to complete tenth grade biology before enrolling. Teacher recommendation from current teacher or a minimum final grade of a B+ from a previous Biology course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers). NOT OFFERED 2023-2024**

### **SCI-102 BIOLOGY Honors**

This is a required course of a three-year science sequence outlined by the Delaware Department of Education. The subjects of study include the nature of science, natural selection, biochemistry, cells, energy in living systems, genetics, and biotechnology. Emphasis will be placed on understanding the nature of science through inquiry-based learning, including research and laboratory experience. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.**

### **SCI-103 BIOLOGY College Prep**

This is a required course of a three-year science sequence outlined by the Delaware Department of Education. The subjects of study include the nature of science, natural selection, biochemistry, cells, energy in living systems, genetics, and biotechnology. Students will develop problem-solving skills that are essential to meet the state standards, through inquiry-based learning, including research and laboratory experience.

### **SCI-111 AP CHEMISTRY**

This course is a continuation of the chemistry concepts learned in Physical Science, Biology and Chemistry/Physics. This is a fast-paced course designed to those students who seriously intend to pursue science related fields of study in college and who seek advanced placement standing in college. The course will include all content and concepts included in the AP exam. Topics include atomic/molecular structures, equilibrium, organic chemistry, chemical and nuclear reactions, and more. This is a lecture-intensive course with concept emphasis through laboratory studies. **AP Requirement: Due to the rigor of this course, it is required that students complete eleventh grade Honors Chemistry and Algebra 2 before enrolling. Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors Chemistry course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **SCI-112 CHEMISTRY Honors**

This 11<sup>th</sup> grade course is the third required course of the three-year science sequence put forth by the DE State Science Standards. Instruction will focus on: science and inquiry, materials and their properties, structure and properties of pure substances and mixtures, chemical reactions, properties of acids and bases, and material technology. Specific topics to be covered will include: atomic and molecular structure and behavior, stoichiometry, nuclear and chemical reactions, periodicity and bonding, energy changes, gas properties, and neutralization reactions. Emphasis will be placed on understanding the nature of science through inquiry-based learning, including research and laboratory experience. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+. Students should have taken/or be enrolled in Honors Algebra II.**

### **SCI-113 CHEMISTRY College Prep**

This course is the third required course of the three-year science sequence put forth by the DE State Science Standards. Instruction will focus on: science and inquiry, materials and their properties, structure and properties of pure substances and mixtures, chemical reactions, properties of acids and bases, and material technology. Specific topics to be covered will include: atomic and molecular structure and behavior, stoichiometry, nuclear and chemical reactions, periodicity and bonding, energy changes, gas properties, and neutralization reactions. Students will develop problem-solving skills that are essential to meet the state standards, through inquiry-based learning, including research and laboratory experience. Students should have taken/or be enrolled in Algebra II.

### **SCI-121 AP PHYSICS**

AP Physics is a course covering five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics and atomic and nuclear physics. Students will gain an understanding of physics' core principles and then apply them to problem-solving exercises. They'll learn how to measure the mass of a planet without weighing it, find out how electricity makes a motor turn and learn how opticians know how to shape the lenses for glasses. The equivalent of an introductory college-level course, AP Physics B prepares students for the AP Exam and for further study in science and engineering. **AP Requirement: Due to the rigor of this course, it is required that students have completed Algebra 2 and Precalculus/Trigonometry with a minimum final grade of a B+. Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors Physics course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **SCI-122 PHYSICS Honors**

This 11<sup>th</sup> grade course is the study of classical and modern physics. The course explores the background of physics and its classical concepts. Mechanics is the main concentration of the course. This includes an in-depth study of force and its effects, motion (one and two dimensional), acceleration, vector resolution, work, energy, simple machines, and thermodynamics. Laboratory studies will be strongly emphasized. Students will be required to complete a major project. **Honors Requirement: Due to the rigor of this course, students are required to complete Algebra 2 with a minimum final grade of a B+ and have completed or be enrolled in Precalculus/Trigonometry. Teacher recommendation from current teacher.**

### **SCI 123 CONCEPTUAL PHYSICS**

This physics course is designed for 11<sup>th</sup> or 12<sup>th</sup> graders with the goal of allowing the student to make meaningful connections between the concepts of physics and their everyday world. Or, as physicist Richard Feynman wrote, "to see physics as not only a basis for solving problems, but as a way of seeing the order and regularity in the world." This course can serve as the third of three required lab science courses. Juniors who successfully complete CP physics may opt to take Honors Physics or AP physics their senior year.



### **ENV-401 AP ENVIRONMENTAL**

The goal of this AP Environmental Science course is to prepare students for college level science classes. This includes college style labs and textbook. Students will be expected to complete reading and writing assignments outside of class for each chapter, some class time will also be dedicated to this. Students will spend class time conducting labs, discussing current environmental issues and other hands on activities. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. There are several major unifying themes that cut across the many topics included in the study of environmental science. **AP Requirement: Teacher recommendation from current teacher or a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers). Prerequisite: Biology with a minimum final grade of a B+. Chemistry is a pre- or co-requisite.** **NOT OFFERED 2023-2024**

### **ECO-403 ECOLOGY College Prep**

This is a science course for 11<sup>th</sup> and 12<sup>th</sup> graders to introduce the basic principles of ecology. This course can serve as the third of three required lab science courses. Students will study the relationship between populations, communities and ecosystems. The course concludes with a study of human impact on the natural world. The course is taught using a blend of Schoology, the online learning platform, and hands on lab experience, in the classroom and outside. Students need a strong understanding of Algebra as each lab will require data collection, analysis and graphing. **Prerequisite: Biology and Algebra I.**

## **PHYSICAL EDUCATION/DRIVER EDUCATION**

*One full credit of physical education and ½ credit of health are required for graduation.*

### **PE-100 PHYSICAL EDUCATION I**

This is a required course for high school graduation as mandated by the state of Delaware. Students will participate in team and individual sports/activities that provide physical play, social development, and the opportunity to learn leisure time activities. Students are required to dress and participate on a daily basis. Students will develop an appreciation of fitness and its life-long benefits. **(.5 credit)**

### **HEALTH-100**

This is a required course for high school graduation as mandated by the state of Delaware. Students will have the opportunity to explore topics such as nutrition/diet, substance abuse/use prevention, mental health, anatomy and physiology, disease prevention, and human sexuality. The course will provide decision-making, character building, and time management skills so the students may be prepared to make healthy choices in their lifetime. **(.5 credit)**

### **PE-200 PHYSICAL EDUCATION II**

This is a required course for high school graduation as mandated by the State of Delaware. Physical Education 10 is designated to offer opportunities for students to participate in various fitness activities and skill related sports; exploring training methods; interact socially; and have the confidence to develop lifetime habits and interests of healthy physical activities/sports. Students are required to dress and participate on a daily basis. Students will develop an appreciation of fitness and its life-long benefits. **(1 credit)**

### **DE-200 DRIVERS EDUCATION**

Drivers Education is offered to students who have sophomore status **(5.5 credits)**. This course may only be taken ONE time during your high school career. In order to obtain your license, you must successfully complete Driver Education. You must have a valid social security card and birth certificate. **(.25 credit)**

### **PE-300 PHYSICAL EDUCATION III**

This course includes team and individual sports activities to develop physical fitness through vigorous activities, social development through the give and take of sports, an opportunity to learn leisure time activities and a change from the regular classroom atmosphere. Each student will dress and participate as required. **Prerequisite: Counselor approval due to graduation requirement or approval from Physical Education Teacher. Grades: 11, 12 (1 credit)**

## **WORLD LANGUAGES**

### **SPA-103 SPANISH I College Prep**

This college preparatory course is intended for the student who has not been exposed to the language, or for the one who needs background for advancing to Spanish II. The emphasis is on spoken and oral comprehension and the end results are achieved through conversations and vocabulary growth. The student is exposed to Spanish culture through dialogues and cultural notes included in the text. Basic grammatical structures are introduced and reinforced with oral questions and answers. Grammatical structures are explained in English to ensure proper understanding.

### **SPA-203 SPANISH II College Prep**

This college preparatory course is intended for the student who wants to continue their pathway in Spanish. Spanish II reviews all the material learned previously. New vocabulary and grammar is introduced in this course which continues to offer the opportunity to acquire basic skills. It expands the cultural items of the first level. Listening and speaking skills are the main focus of study. Cultural aspects are integrated throughout the program. **Prerequisite: SPA 103.**

### **SPA-302 SPANISH III Honors**

Spanish III Honors is an intermediate class conducted primarily in Spanish. Grammar is reviewed and advanced concepts, verb tenses are reviewed and added. Reading authentic materials such as newspaper articles for comprehension is emphasized. Speaking and writing about real situations are two skills that will be developed at a higher level. Listening comprehension is also a point of emphasis. All four linguistic modalities (listening, speaking, reading, and writing) are stressed in the course to increase fluency and self-confidence in order to master the skill of speaking Spanish. Students will be introduced to extensive Spanish culture, art, and literature. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.** **Prerequisite: SPA 203.**

### **SPA-402 SPANISH IV Honors**

Spanish IV Honors is an advanced class for students who have successfully completed Spanish III Honors and receive their teacher's recommendation. It is conducted primarily in Spanish. An intensive review of grammar is conducted throughout the course and students will be introduced to advanced grammar. There is emphasis on reading and auditory comprehension. Students will be expected to read and analyze original articles from Spanish journals, modified literary texts and there will be an emphasis on situational writing as well. Students will be encouraged to use the language in class at all times, as the class is conducted primarily in Spanish. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.** **Prerequisite: SPA 302.**

### **SPA-401 AP SPANISH LANGUAGE AND CULTURE**

AP Spanish Language and Culture is an advanced course conducted in Spanish. All grammar and cultural activities are reviewed in preparation for taking the AP Language and Culture exam. Listening and reading comprehension are emphasized using authentic AP materials. Speaking skills are sharpened using the AP speaking prompts. Students learn to write challenging formats, again using AP-type prompts. Tests will be based on actual AP formats. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

**FR-103 FRENCH I College Prep**

This college preparatory course emphasizes spoken and oral comprehension and the end results are achieved through conversations and vocabulary growth. The student is exposed to the culture through dialogues and cultural notes included in the text. Basic grammatical structures are introduced and reinforced with oral questions and answers. Grammatical structures are explained in English to ensure proper understanding.

**FR-203 FRENCH II College Prep**

The second level of French is one that deals with reading and answering questions in French. Cultural aspects are integrated throughout the program. Questions are asked and may be oral or written. Grammar is reviewed and new structures are introduced. Students will demonstrate their understanding by using concepts in sentences and paragraphs. Conversations are used to bring out the interest of each student and build one's own ideas in French. The course is taught in French and English. **Prerequisite: FR-103.**

**FR-302 FRENCH III Honors**

French III Honors is an intermediate class conducted primarily in French. Grammar is reviewed and advanced concepts and verb tenses are reviewed and added. Reading authentic materials such as newspaper articles for comprehension is emphasized. Speaking and writing about real situations are two skills that will be developed at a higher level. Listening comprehension is also a point of emphasis. All four linguistic modalities (listening, speaking, reading, and writing) are stressed in the course to increase fluency and self-confidence in order to master the skill of speaking French. Students will be introduced to extensive French culture, art, and literature. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.** **Prerequisite: FR- 203.**

**FR-402 FRENCH IV Honors**

French IV Honors is an advanced class for students who have successfully completed French III Honors and receive their teacher's recommendation. It is conducted primarily in French. An intensive review of grammar is conducted throughout the course and students will be introduced to advanced grammar. There is emphasis on reading and auditory comprehension. Students will be expected to read and analyze original articles from French journals, modified literary texts and there will be an emphasis on situational writing as well. Students will be encouraged to use the language in class at all times, as the class is conducted primarily in French. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.** **Prerequisite: FR-302.**

## ***DANCE PATHWAY***

### **DN-100 DANCE I BEGINNER – NON- STUDIO TRAINED DANCERS**

This course is designed for the student who wants to learn about dance as an art. Students enrolled in the dance program will be studying various topics to help develop them as a dancer including but not limited to dance history, vocabulary, dance theory, choreography techniques, and writing a critique. Dance will include but is not limited to basic dance technique, ballet, jazz and academics. Dance students will have several performance opportunities throughout the year ending with a winter or spring Dance Gala. **Performance in Dance Gala is required to move on to the next course level. To select the DNC 200 ADVANCED/TRAINED DANCERS course, successful completion of DN100 AND audition is required.**

### **DN-200 DANCE II NON-STUDIO TRAINED DANCERS**

This course is opened to students who have successfully completed the first level of dance. Dancers will extend and refine dance technique at a beginner/intermediate level while continuing basic dance technique, ballet, jazz, tap, and academics. Dance students will have several performance opportunities throughout the year ending with a winter or spring Dance Gala. **Prerequisite: DN-100, Performance in Dance Gala.**

### **DN-300 DANCE III NON-STUDIO TRAINED DANCERS**

This course is opened to students who have successfully completed the second level of dance. Dancers will extend and refine dance technique at an intermediate/advance level while continuing basic dance technique, ballet, contemporary, jazz, tap, and academics. Dance students will have several performance opportunities throughout the year ending with a winter or spring Dance Gala. **Prerequisite: DN-100, 200, Performance in Dance Gala.**

### **DN-400 DANCE IV NON-STUDIO TRAINED DANCERS**

This course is opened to students who have successfully completed the third level of dance. Dancers will extend and refine dance technique at an advance level while continuing basic dance technique, ballet, contemporary, jazz, hip-hop, tap, and academics. Dance students will have several performance opportunities throughout the year ending with a winter or spring Dance Gala. **Prerequisite: DN-100, 200, 300, Performance in Dance Gala.**

### **DNC-100-400 ADVANCED/TRAINED DANCE I (By audition)**

This course is designed for students who have been trained in dance for years and want to continue their studies. Students enrolling in advanced dance need to be **currently studio trained. An audition is required to be enrolled in this level.** This combined level will have dancers extend and refine basic dance technique, ballet, contemporary, jazz, hip-hop, tap, and academics. Senior students will be given an opportunity to do choreography to be adjudicated for a possible public performance. This course prepares the studio trained dance students for the professional and/or college careers. Dance students will have several performance opportunities throughout the year ending with a winter or spring Dance Gala. **Prerequisite: Audition, Performance in Dance Gala.**

***DIGITAL COMMUNICATION TECHNOLOGY PATHWAY (previously named Digital Media & Imaging Pathway)***

All Digital Communication Technology Students will participate in the Technology Student Association through class projects and will have the opportunity to compete at the local, state, and national level.

**DCT-100 FOUNDATIONS OF DIGITAL DESIGN** introduces students to the foundational principles, techniques, and skills of visual communications. Students learn the design process, elements and principles of design, color theory, photography, promotional design, and image manipulation techniques along with the communication skills required to work within the media industry and client-based realm. Students learn raster image manipulation, editing, software application, and digital media literacy. Students are prepared with the skills to develop images in Adobe Lightroom and manipulate digital files in Adobe Photoshop.

**DCT-200 PROCESSES OF DIGITAL PRODUCTION** engages students to produce media and design content using the computer as an artistic medium. Students are prepared in Adobe Illustrator with a focus on vector image manipulation, color theory, typography, editing, illustration, publishing, and the delivery of digital products. Using the software, students will see their original design concepts and brainstorming come to actualization in the digital world.

**DCT-300 APPLICATIONS OF DIGITAL DESIGN** engages students in the use of the computer as an illustrative medium and motion as an influential medium. Through the use of the Adobe Creative Suite, students prepare a variety of work in the digital medium. Capstone skills learned from prior coursework are applied for students to develop client-based design work.

**DCT-401 AP 2D ART AND DESIGN (Digital Based)**

Develop your skills in a two-dimensional medium such as graphic design, photography, collage, printmaking, and others as you learn the principles of 2-D design. You'll create artwork that reflects your own ideas and skills and what you've learned. **AP Requirement: Must have previous Graphic Design and Production coursework, successful completion of DCT-300 and permission of AP instructor. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

**DCT-500 EARLY CAREER EXPERIENCE: VISUAL ARTS**

## ***VISUAL ART PATHWAY***

### **ART-100 ART I**

Students will work with the Elements and Principles of Art following the Design Model. Two and three dimensional explorations still life, portrait and imaginative drawing will include measured proportional drawing and sighting. Media will include graphite, prisma, pastel, and hand building constructions with clay. This is a holistic class that will address the way artists see the world and respond to it through Art history readings, discussions, investigative journaling, and project based learning. A weekly sketchbook homework assignment will be required for passing grade.

### **ART-200 ART II (DRAWING AND PAINTING)**

Students will develop an expanding appreciation of visual art through project based learning through critical thinking and analysis while refining their skills through representational and imaginative work. Research and design projects through drawing, painting, printmaking with graphite, prisma, pastel, ink, and water color illustration and linocut printmaking. Students will develop compositional skills through use of Rule of Thirds, and Rule of Odds, developing compositional space. World Art History themes will be incorporated. A weekly sketchbook homework assignment will be required for passing grade. **Prerequisite: ART-100.**

### **ART-250 ART II 3 DIMENSIONAL EXPRESSION (CLAY/SCULPTURE)**

Students will develop an expanding appreciation of visual art through project based learning through critical thinking and analysis while refining their skills through representational and imaginative work. Research and clay projects will include an introduction to hand building, pinch, coil, slab and the wheel with hollow forms. **Prerequisite: ART-100.**

### **ART-300 ART III 2 DIMENSIONAL EXPRESSION (DRAWING)**

Students will complete the third level of the art pathway by examining the artists' response to current issues. They will further develop their skills in media with complex investigations of chosen media (drawing, painting, printmaking with graphite, prisma, pastel, ink, and water color illustration and linocut printmaking) A weekly sketchbook homework assignment will be required for passing grade. **Prerequisite: ART-200, ART-250.**

### **ART-350 ART III 3 DIMENSIONAL EXPRESSION (CLAY/SCULPTURE)**

Students will complete the third level of the art pathway by examining the artists' response to current issues. They will further develop their skills in media with complex investigations of chosen media. Students will develop sculptural forms and assemblages in clay and other mediums. A weekly sketchbook homework assignment will be required for passing grade. **Prerequisite: ART-200, ART-250.**

### **ART-401 AP 2D ART & DESIGN (Analog Art Media)**

Students will develop a sustained investigation in 15 slides of research, developmental process, synthesis, and experimentations. Students will also submit five resolved art works in two-dimensional forms such as illustration, collage, printmaking, fashion illustration, cartooning, and design using a variety of media explorations. **AP Requirement: Approval of AP Art instructor and portfolio review of Art III work. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ART-501 AP DRAWING**

Twenty-four (24) works of AP quality will be generated in a drawing portfolio based on observational representational work. Students will be expected to match studio hours with research and sketchbook homework hours towards AP portfolio review requirements. **AP Requirement: Approval of AP instructor and portfolio review of Art III work. Summer assignment will be required by the first week of Fall semester. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ART-601 AP ART HISTORY**

This course will include a chronological study of fine art, photography, craft, and architecture, the meaning and the context in which the works were created, the audience, or consumers of the works, and the religious belief systems in which they played a role. This will allow serious students to develop a holistic understanding of the evolution and personal as well as cultural expression. Students will read, research and participate in discussion. Two hours of reading and study time and reading of chapter assignments for every hour spent in class is the minimum expectation of homework in this course. In preparation for the AP ART HISTORY EXAM, this course will cover Art History with units derived from the 36 chapters of Art through the Ages, 13<sup>th</sup> edition in an introduction to college level coursework. The companion web site, will provide support with power point, digital slides, and supplemental information necessary for a full understanding of the content. Summer assignment of the preface and four chapter readings, outlines and notes in preparation for seminar sharing will prepare students for the pace and teamwork required in the course. **AP Requirement: Teacher recommendation from current History teacher. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ART-701 AP 3D ART & DESIGN**

Students will develop a sustained investigation of 15 slides of research, synthesis, process, experimentation, and revisions from their original question prompt. Mind-mapping, and orthographic drawings will lead to sculptural form development, recording of process and revisions. Students will also submit five resolved images of three dimensional works in a variety of media explorations. Works in sculpture may include wood, clay, wire, paper mache, paper, fabric and other media. Portfolio submission to AP for college credit will be expected. **AP Requirement: Teacher recommendation from current teacher. Students enrolling in this course will be expected to submit the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**



**CONCERT BAND PATHWAY**

**CBND-100-400 CONCERT BAND**

Concert Band is open to all students who wish to become proficient on a wind or percussion instrument and play in a traditional symphonic band setting. Students will be given the opportunity to audition for All State Band and All County Band. This ensemble will perform in several concerts throughout the year. Students will also have small-group instrumental lessons as a component of this course. At least one year of instrumental music is required unless instructor permission is granted. **Attendance at all performances and practices is mandatory.** (CBND-100; CBND-200; CBND-300; CBND-400).

**MBND-100-400 MARCHING BAND (0.5 credit)**

Marching Band will meet outside of the school day and is open to all students who wish to further their musicianship on a wind or percussion instrument and perform at Sussex Central football games and local parades and festivals. All students will be expected to attend a required number of practices in June and July and band camp in August. After band camp and through the 2<sup>nd</sup> marking period, students will be expected to attend Friday afternoon rehearsals. **Attendance at all games, parades, festivals and practices is mandatory.** (MBND-100; MBND-200; MBND-300; MBND-400).

**MBND-100-400 BAND FRONT (0.5 credit)**

Band Front will meet outside of the school day and is open to all students who wish to perform as an integral part of the Marching Band at Sussex Central football games and local parades and festivals. Students will have the opportunity to learn flag, swing flag, rifle, sabre and dance techniques. All students will be expected to attend a required number of practices in June and July and band camp in August. After band camp and through the 2<sup>nd</sup> marking period, students will be expected to attend Friday afternoon rehearsals. **Attendance at all games, parades, festivals and practices is mandatory.** (MBND-100; MBND-200; MBND-300; MBND-400).

## **CHOIR PATHWAY**

### **CHR-100 CONCERT CHOIR I**

Students will sing daily in class and perform within the school and community. Vocal music from a variety of cultures, languages, countries, and periods of history will be explored through performance, analysis, and discussion. All choir members learn basic music notation and how to read a choral score through basic music theory. Students will gain an understanding of the vocal tract and other basic anatomy required for safe and productive singing technique. Students will have opportunities to audition for solos, travel with the band and choir, audition for Sussex County and Delaware All State Honors Ensembles, and participate in other special performances as they arise. All students participating in Choir 100 are required to perform in the semesterly concert and one other performance (Hall of Fame Ceremony, Graduation Ceremony, Arts Festival, etc)

### **CHR-200 CONCERT CHOIR II**

Students will sing daily in class and perform within the school and community. Vocal music from a variety of cultures, languages, countries, and periods of history will be explored through performance, analysis, and discussion. All choir members learn basic music notation and how to read a choral score through basic music theory. Students will gain an understanding of the vocal tract and other basic anatomy required for safe and productive singing technique. Students will have opportunities to audition for solos, travel with the band and choir, audition for Sussex County and Delaware All State Honors Ensembles, and participate in other special performances as they arise. CHR- 200 level students will have additional opportunities to apply as section leaders and help facilitate rehearsals. All students participating in Choir 200 are required to perform in the semesterly concert and one other performance (Hall of Fame Ceremony, Graduation Ceremony, Arts Festival, etc)

### **CHR-300 CONCERT CHOIR III**

Students will sing daily in class and perform within the school and community. Vocal music from a variety of cultures, languages, countries, and periods of history will be explored through performance, analysis, and discussion. All choir members learn basic music notation and how to read a choral score through basic music theory. Students will gain an understanding of the vocal tract and other basic anatomy required for safe and productive singing technique. Students will have opportunities to audition for solos, travel with the band and choir, and participate in other special performances as they arise. CHR- 300 level students will have additional opportunities to apply as section leaders and help facilitate rehearsals. *Students are expected to audition for Sussex County and/or Delaware All State Honors Ensembles*, perform in the semesterly concert and one other performance (Hall of Fame Ceremony, Graduation Ceremony, Arts Festival, etc)

### **CHR-400 CONCERT CHOIR IV**

Students will sing daily in class and perform within the school and community. Vocal music from a variety of cultures, countries, and periods of history will be explored through performance, analysis, and discussion. All choir members learn basic music notation and how to read a choral score through basic music theory. Students will gain an understanding of the vocal tract and other basic anatomy required for safe and productive singing technique. Students will have opportunities to audition for solos, travel with the band and choir, and participate in other special performances as they arise. CHR- 400 level students will have additional opportunities to apply as section leaders and help facilitate rehearsals. *Students are expected to audition for Sussex County and/or Delaware All State Honors Ensembles*, perform in the semesterly concert and one other performance (Hall of Fame Ceremony, Graduation Ceremony, Arts Festival, etc)

### **CHRA-100-400 ADVANCED CHOIR**

*By audition or teacher recommendation only.* Students in advanced choirs should already have a basic understanding of most musical concepts, be familiar with reading notation or be willing to improve, as well as be driven to participate and perform at a higher standard of musical excellence. Vocal music from a variety of cultures, languages, countries, and periods of history will be explored in-depth through performance, analysis, and discussion. Students in this section of choir will explore advanced vocal techniques for chamber and jazz solo/ensemble performances as well. *Members of this ensemble are expected to audition for Sussex County AND Delaware All State Honors Ensembles*, perform in the semesterly concert and one other performance (Hall of Fame Ceremony, Graduation Ceremony, Arts Festival, etc).

## ***THEATRE PATHWAY***

### **THR-100 INTRODUCTION TO THEATRE**

This course guides the beginning theatre student to explore the world of the Theatre through its history, professions and stagecraft. Students will learn about the types of drama, setting the stage, job responsibilities in the theatre and characterization through costumes and makeup. This course guides the beginning theatre student through a series of experiences in stage movement, voice projection and acting exercises. Students will be encouraged to see theatrical productions during the year and to participate in at least one production in the after school program sponsored by the Take II Drama Club. "At end of this course, students will be assessed for promotion to **THR-200 INTERMEDIATE THEATER** through a memorized monologue assignment. **Prerequisite: Open to 9<sup>th</sup> and 10<sup>th</sup> graders.**

### **THR-200 INTERMEDIATE THEATRE IMPROV, PLAYMAKING AND STAGECRAFT**

This course is designed for previously trained actors in 9th, 10th and 11th grade with instructor approval. This course is a comprehensive examination of theatre with an emphasis on scene study, script analysis and beginning design for stage lighting, sound and set construction. Students will create several design projects in each of these arenas. Students will analyze scripts and other theatrical literature in order to enhance advanced acting skills and utilize various methods of character development and dramatic form. Through play analysis students will learn how to design basic theatrical sets, lights, costume, make-up and publicity. Students are **encouraged** to participate in productions and activities sponsored by the Take II Drama Club. **Prerequisite: a letter of intent, accepted by the teacher, indicating a willingness to memorize lines and perform in or help create short dramatic pieces, as well as the commitment to work with all other students in class. Also, an "A" grade in Introduction to Theatre is required.**

### **THR-300 TECH THEATRE I**

Students will work on preparing productions for band, chorus, theater and IB, including developing an understanding of lighting and sound systems, prop management, costumes, and theater management. Students are **encouraged** to participate in a least one theatrical production after school sponsored by the Take II Drama Club. **Prerequisite: a letter of intent, accepted by the teacher, indicating a willingness to learn and be trained on lighting & sound equipment, a commitment to learn the other theatre disciplines such stage management, costumes, makeup, props, and directing, as well as working with all the other students in class. Also, an agreement to stay after school during the semester.**

### **THR-400 TECH THEATRE II**

Students will work on taking stronger leadership roles in preparing productions for band, chorus, theater and IB, including developing an understanding of lighting and sound systems, prop management, costumes, and theater management. Students will also learn directorial techniques, stage management, customer service and how to manage a team. Students are **encouraged** to participate in a least one theatrical production in after school sponsored by the Take II Drama Club. **Prerequisite: a letter of intent, accepted by the teacher, indicating a willingness to learn and be trained on lighting & sound equipment, a commitment to learn the other theatre disciplines such stage management, costumes, makeup, props, and directing, as well as working with all the other students in class. Also, an agreement to stay after school during the semester. Finally, an "A" grade in any previous Tech Class.**

### **THRA-100-400 ADVANCED THEATRE I, II, III**

This course is designed for the student who is really interested in the arts and may have participated in community/regional theatre groups such as Possum Points, Second Stage and Clear Space. Prerequisite: a prescreening and auditioning process is required. Students who do not qualify for the advanced course will be enrolled in the appropriate Theatre course. **Prerequisite: a letter of intent, accepted, by the teacher indicating a willingness to perform in or help create a full-length dramatic piece, the commitment to work with all other students in class, and an ability to stay after school during the semester. Also, an "A" grade in Intermediate theatre or an earlier Advanced Section is required.**

## ***MARKETING MANAGEMENT PATHWAY***

### **MT-100 MARKETING ESSENTIALS FOR A DIGITAL AND DYNAMIC WORLD**

The first course in the Marketing Management Pathway introduces students to the core elements of marketing: the 4 Ps of Product, Promotion, Place, and Price as well as ethics, identifying target markets and understanding consumer behavior. Students will also learn about product positioning in the market as well as branding. They will have the opportunity to get certification in the Microsoft Office Suite: Word, Excel, PowerPoint, and Outlook.

### **MT-200 DIGITAL DATA DRIVEN MARKETING (was Marketing Management II)**

This course continues an exploration of how to apply marketing principles to their own lives with a focus on personal branding. Students will learn how to create a personal brand, perform a social media audit, and become more mindful of how they are presenting themselves online, in writing, and more. They will get real world experience as they work through a digital marketing simulation and will also continue to work on certification in the Microsoft Office Suite: Word, Excel, PowerPoint, and Outlook. Prerequisite: MT-100 Marketing Essentials for a Digital and Dynamic World

### **MM-300 MARKETING MANAGEMENT III**

This course is designed to give students a basic understanding of business ownership. Emphasis will be placed on the advantages and disadvantages of various types of business ownership including the skills necessary to own and operate a business. **Prerequisite: MM-200.**

### **MM-500 EARLY CAREER EXPERIENCE: MARKETING MANAGEMENT**

This program provides the senior business student the opportunity to gain on-the-job training not ordinarily found in the classroom. The student must have successfully completed three business courses within their pathway as the job experience will be directly related to those courses. **Prerequisite: Three pathway courses within the student's pathway, Training Agreement, and Pathway Teacher approval required.**

## ***ACADEMY OF FINANCE PATHWAY***

### **AOF-100 FUNDAMENTALS OF FINANCE**

This course provides students with an essential knowledge of the function of finance in society, the impact of technology on the financial services field, and the role of finance in organizations. **Grades 9, 10**

### **AOF-200 PRINCIPLES OF ACCOUNTING**

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. Technology will be used for internal decision making, planning, and control. **Prerequisite: AOF-100.**

### **AOF-300 FINANCIAL SERVICES**

This course provides students with the history of money and banking and the origins of banking in the United States. Students will learn to research and discriminate between investment options through an in-depth study of the financial services industry and are also introduced to the insurance industry and the critical role of insurance in the financial services sector. **Prerequisite: AOF-200.**

### **AOF-500 EARLY CAREER EXPERIENCE: ACCOUNTING**

This program provides the **Senior** student the opportunity to gain on-the-job training not ordinarily found in the classroom. The student must have successfully completed three courses within their pathway as the job experience will be directly related to those courses. Grade and credit are awarded for this experience. Completion of the Training Agreement and supportive documents are required prior to submission for approval. **Prerequisite: Three pathway courses within the student's pathway required Training Agreement, and Pathway Teacher approval.**

## ***ANIMAL SCIENCE PATHWAY***

### **ANI-100 ANIMAL SCIENCE I**

This is a hands-on course that will cover the Fundamental of Animal Science which includes the major characteristics of animal life, the careers in the animal industry, animal safety and sanitation, breed of animals, reproduction and genetics, nutrition, animal health and diseases, and animal rights vs. welfare. Students will be expected to participate in FFA activities and maintain a Supervised Agriculture Experience (SAE) project. This is an entry-level course and the Delaware State Standards will be followed closely. Students in this class should be in the Animal Science Pathway.

### **ANI-200 ANIMAL SCIENCE II**

This course is the 2<sup>nd</sup> level course of the Animal Science Pathway. This is a hands-on course that will cover the intermediates levels of animal science with include; safety and sanitation, breeds, reproduction, anatomy and physiology, genetics, nutrition, animal health and management, animal processing, legal issues in animal agriculture, and industry standards on the animal selection process. Students will be expected to continue and expand their FFA experiences. Students will also expand their Supervised Agricultural Experience project.

**Prerequisite: ANI-100.**

### **ANI-300 ANIMAL SCIENCE III/VET TECH.**

This course will be an advanced level of Animal Science that will introduce Veterinary Science and Technology. A higher level of application will be utilized in the following subjects: safety, breed, reproduction & genetics, nutrition, animal health, animal management, animal marketing, legal responsibilities, and anatomy and physiology. The Delaware State Standards will be covered very closely. This is the third level of the animal science pathway. Students will be expected to continue and expand their FFA experiences. Students will also expand their Supervised Agricultural Experience project. **Prerequisite: ANI-200.**

### **ANI-400 ANIMAL SCIENCE IV/VET TECH.**

The course will be an advanced level of Animal Science that will emphasize Veterinary Science and Technology. A higher level of hands-on activities will be utilized in the following subjects: safety and sanitation, breeds, reproduction, nutrition, animal health, animal management, animal evaluation, hospital and office procedures, animals in society, and anatomy and physiology. Animal science IV will follow industry, state and national animal science standards. This is the fourth level of the pathway. Students will be expected to continue and expand their FFA experiences. Students will also expand their Supervised Agricultural Experience project.

**Prerequisite: ANI-300.**

### **ANI-500 EARLY CAREER EXPERIENCE: ANIMAL SCIENCE**

This program provides the senior agriculture student the opportunity to gain on-the-job training not ordinarily found in the classroom. The student must have successfully completed three agri-sciences courses within their pathway as the job experience will be directly related to those courses. **Prerequisite: Three pathway courses within the student's pathway required Training Agreement, and Pathway Teacher approval.**

## ***PLANT & HORTICULTURE SCIENCE PATHWAY***

### **HORT-100 PLANT/HORTICULTURE SCIENCE I**

This course is designed to build a foundation of agriculture and plant systems. Students will gain fundamental classroom knowledge on plants, greenhouse production and business, floral crops, landscaping plants, reproduction, buying and selling plants. Students will gain leadership skills and experiences through participation in the National FFA Organization activities and maintain a Supervised Agriculture Experience (SAE) project.

### **HORT-200 GREENHOUSE/HORTICULTURE SCIENCE II**

This course is designed around a greenhouse laboratory situation. Students will apply classroom knowledge of plants, marketing, business design, business plan, selling, pricing, sexual reproduction, cuttings, hormones. The greenhouse will be the laboratory “hands-on” portion of the class. Students will be learning and practicing the elements of floral design and have the opportunity to explore the industry and create industry standard products. Students will be responsible for selling greenhouse plants during fall and spring plant sales. Students will gain leadership skills and experiences through participation in the National FFA Organization activities and maintain a Supervised Agriculture Experience (SAE) project. Prerequisite: HORT-100.

### **HORT-300 GREENHOUSE/HORTICULTURE SCIENCE III**

This course will allow each student to become well acquainted with the plants involved in producing and implementing a landscape design. Students will also work and develop employability skills through the creation of resumes, cover letters and interview skills. Students will explore the landscape industry by using the school grounds as a laboratory situation to produce industry standard landscape design. Students will maintain the school grounds by laying mulch, trimming trees, bushes, planting shrubs, and over all landscaping. Students will gain leadership skills and experiences through participation in the National FFA Organization activities and maintain a Supervised Agriculture Experience (SAE) project. Prerequisite: HORT-200. **Prerequisite: HORT-200.**

### **HORT-400 GREENHOUSE/HORTICULTURE SCIENCE IV**

This course is the pathway capstone and is not mandatory for the completion of the pathway. It is, however, designed for the student that desires more knowledge and skills in this career field. Students will work on a variety of projects that will challenge their minds and ability levels. These projects will incorporate all the knowledge and skills they have acquired over the past three years. Students will learn from classroom and laboratory experiences as well as out of school projects. Students will also be required to maintain a year-long Supervised Agricultural Experience Project **Prerequisite: HORT-300**

### **HORT-500 EARLY CAREER EXPERIENCE: PLANT SYSTEMS**

This program provides the senior agriculture student the opportunity to gain on-the-job training not ordinarily found in the classroom. The student must have successfully completed three agri-sciences courses within their pathway as the job experience will be directly related to those courses. **Prerequisite: Three pathway courses within the student’s pathway required Training Agreement, and Pathway Teacher approval.**

## ***AGRICULTURAL POWER & ENGINEERING PATHWAY***

### **ASPE-100 FUNDAMENTALS OF AGRICULTURAL POWER AND ENGINEERING**

Fundamentals of Agricultural Power and Engineering (FAPE). This course introduces students to the skills needed in the occupational area of agricultural power and engineering. This course offers hands-on applications of workplace safety, communication skills, construction math, reading and developing construction plans, tool usage and safety. Offers students hands-on activities to enhance their understanding of agricultural *welding, fabrication, and mechanics*.

### **APE-200 AGRICULTURAL WELDING AND FABRICATION (AWF)**

This course enables students to build on the knowledge and experiences gained in Fundamentals of Agricultural and Power Engineering. Students learn shielded metal arc welding, gas metal arc welding, and gas tungsten arc welding, agricultural welding and metal fabrication as well as cutting and gouging processes of metals using oxyfuels and plasma. "AWF" includes hands-on experiences for students to learn metallurgy as well as how to read welding drawings and identify welding symbols. **Prerequisite: ASPE-100.**

### **APE-300 AGRICULTURAL POWER & MECHANICAL SYSTEMS**

This course enables students to apply principles of dynamic power and mechanical systems while incorporating the scientific and engineering principles to be employed in power mechanical and related agricultural industries. Students learn about energy principles, engine theory, engine systems troubleshooting, electrical motor principles, hydraulic systems, and electronics. **Prerequisite: APE-200.**

### **ASPE-500 EARLY CAREER EXPERIENCE: PST SYSTEMS**

This program provides the senior agriculture student the opportunity to gain on-the-job training not ordinarily found in the classroom. The student must have successfully completed three agri-sciences courses within their pathway as the job experience will be directly related to those courses. **Prerequisite: Three pathway courses within the student's pathway required Training Agreement, and Pathway Teacher approval.**



## ***AGRICULTURAL STRUCTURES & ENGINEERING PATHWAY***

### **ASPE-100 FUNDAMENTALS OF AGRICULTURAL STRUCTURES & ENGINEERING**

Fundamentals of Agricultural Structures & Engineering (FASE), provides students a variety of experiences in the fields of agricultural structures and engineering. Students engage in hands-on projects reading and developing construction plans and drawings, evaluating site preparation techniques, selecting wood types, constructing buildings, and tool identification, use and safety. Students participate in project based instruction and apply principles of agricultural structures and engineering.

### **ASE-200 STRUCTURAL SYSTEMS IN AGRICULTURE (SSA)**

This class enables students to build on the knowledge and experiences gained in FASE. Students design, plan, and construct small structures that directly relate to large scale construction projects. “SSA” includes hands-on experiences for students to expand their skills in advanced equipment and engineering applications, electrical wiring, and plumbing. **Prerequisite: ASPE-100.**

### **ASE-300 ESSENTIAL SKILLS IN AGRICULTURAL STRUCTURES & ENGINEERING**

In this class of the Structures pathway, students will put the knowledge and skills that they learned from previous classes to the test. This course offers students the opportunity to carry out projects from CAD design through creation of a marketable finished product. Students will also be required to participate in one FFA activity for each quarter and maintain a year-long Supervised Agricultural Experience Project. **Prerequisite: ASE-200**

### **ASPE-500 EARLY CAREER EXPERIENCE: PST SYSTEMS**

This program provides the senior agriculture student the opportunity to gain on-the-job training not ordinarily found in the classroom. The student must have successfully completed three agri-sciences courses within their pathway as the job experience will be directly related to those courses. **Prerequisite: Three pathway courses within the student’s pathway required Training Agreement, and Pathway Teacher approval.**

## **AUDIO, RADIO, AND VIDEO ENGINEERING**

### **ARV-100 AUDIO, RADIO AND VIDEO ENGINEERING & DESIGN I**

This course provides students an opportunity to explore, identify, and understand the foundations of audio, radio, video engineering and design as a platform from which students may continue into the advanced levels of the Audio, Radio, Video Engineering and Design career pathway. Students in this course will be exposed to the history of film, video production, and broadcast related work. They will learn about business, legal, and ethical issues pertaining to the career and industry. Fundamental strategies of preproduction, production, and post-production will be explored. Students will use digital video cameras and non-linear editing software to produce real-world projects. Students enrolled in this course will participate in appropriate grade level cross-curricular learning opportunities. They will also play an introductory role in their high school's chapter of the Technology Student Association.

### **ARV-200 AUDIO, RADIO AND VIDEO ENGINEERING & DESIGN II**

This course provides an opportunity for students to demonstrate and apply the knowledge gained in Audio, Radio, Video Engineering and Design I. This class covers the area of Field Production (or Single-Camera Production). Students will employ advanced techniques to create videos and programs that entertain, persuade, inform, analyze, and educate. Students will develop perspective and explore advanced techniques employed in video graphy. Students will also demonstrate advanced knowledge of techniques to capture, manipulate, and edit audio. The class will be introduced to the concept of shooting for the edit and recording a scene in multiple takes from multiple angles. Students will utilize advanced features of non-linear editing software to create composite videos. There will be a focus on advanced titling, transitions, editing audio, insert editing, and special effects. Students enrolled in this class will participate in appropriate grade level cross-curricular learning opportunities. They will also participate actively in their high school's chapter of the Technology Student Association. **Prerequisite: ARV-100.**

### **ARV-300 AUDIO, RADIO AND VIDEO ENGINEERING & DESIGN III**

This course provides students the opportunity to apply and transfer the concepts and skills necessary to implement a multi-disciplinary team approach to Studio Production (or Multi-Camera Production). Each student will gain knowledge of the principles and concepts pertaining to each separate component of a television studio, how it is operated, and how it is linked together as a TV studio integrated communication system. Students will use a problem-solving approach to produce edited and live content. The general principles of studio audio/video cabling will also be covered. Students will apply strategies used to construct a script and rundown for multi-camera productions. Students will use non-linear editing software with an emphasis on layering multiple effects and DVD authoring. Students enrolled in this class will participate in appropriate grade level cross-curricular learning opportunities applying their skills and knowledge to solving real-life problems. They will be expected to assume a leadership role in their high school's chapter of the Technology Student Association. This is the culminating class experience of the Audio, Radio, Video Engineering & Design career pathway. **Prerequisite: ARV-200.**

### **ARV-400 COMMUNICATION TECHNOLOGY RESEARCH AND DEVELOPMENT**

The top level of the Broadcasting pathway brings together all of the skills that the students have learned up to this point. Now the students act as the crew of a functioning television production facility, SCTV. The primary function of SCTV is to produce a daily live television program that airs in the morning for the whole school that incorporates school news, announcements, sports and other things of interest to the students. The class acts as a news room, run by the more advanced students in the class. Everyone in the class plays various roles: writing scripts, creating graphics, shooting and editing news-style packages, etc. In the morning the class meets and acts as the live crew for the show. It is as close to a real-world environment as a broadcast student can get. **Prerequisite: ARV-300.**

### **ARV-500 EARLY CAREER EXPERIENCE: A/V TECHNOLOGY & FILM**

**Prerequisite: Three pathway courses within the student's pathway required Training Agreement, and Pathway Teacher approval.**

## ***COMPUTER AND INFORMATION SCIENCES***

### **CIS-100 COMPUTER & INFORMATION SCIENCE I**

This first year course is an introduction to the world of computers. Students will be taught the history of computers, types of computers, uses of computers. Students will also learn the different parts of internal and external hardware, the basics of software programming, and the basics of computer aided drafting. Students will use online resources such as Code.org, Codecademy, and Khan Academy. Students will also research potential careers and participate in the Technology Student Association.

### **CIS-200 COMPUTER & INFORMATION SCIENCE II**

Students will continue following the curriculum leading to the CompTIA IT Fundamentals Certification at the end of this second year. Students will focus more on advanced software programming with JavaScript and Python, and System Software and Operating Systems. Students will use online resources such as Code.org, Codecademy, and Khan Academy. Students will also research potential careers and participate in the Technology Student Association.

### **CIS-300 COMPUTER & INFORMATION SCIENCE III**

Computer and Information Sciences III is an in-depth look at Information Security After successfully completing the CompTIA IT Fundamentals certification, students in the third year of this pathway will prepare for the Microsoft Technology Associate in Security Fundamentals certification. Students will learn the foundations of Information Security by addressing all three facets of an Attack Surface: Physical, Network, and People. Students will learn risk management techniques, domains and Active Directory, hardware and software firewalls, authentication, rights and permissions, attack methods, and network architecture. Students will use online resources such as Code.org, Codecademy, and Khan Academy. Students will also research potential careers and participate in the Technology Student Association.

### **CIS-400 COMPUTER AND INFORMATION SCIENCES IV**

Computer and Information Sciences IV is an advanced course in Information Technologies that examines Python programming, as well as network architecture and topologies. Prerequisites include successful completion of the CIS pathway and approval from instructor. Students will use online resources such as Code.org, Codecademy, and Khan Academy. Students will also research potential careers and participate in the Technology Student Association.

### **CIS-401 AP COMPUTER SCIENCE PRINCIPLES**

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. **Requirements: Teacher recommendation from current teacher. Students must complete required summer assignments. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers.)**

## ***J.R.O.T.C PATHWAY***

### **LET-100 LEADERSHIP EDUCATION AND TRAINING I (LET I)**

LET I is the first of four levels of the U.S. Army's Junior Reserve Officer Training Corps (JROTC) program. JROTC is not a recruiting tool for the military or a boot-camp for juvenile delinquents. This introductory course focuses on the JROTC mission statement: "To motivate young people to become better citizens." Students learn basic leadership, teamwork, citizenship, drill & ceremony and military-style physical training. Classes are taught in both a structured classroom environment and outdoors. Military customs, courtesies and traditions are explained and observed. **Uniforms are issued at no charge to the student and required to be worn weekly for the entire course.** Extracurricular activities include: Drill Team, Color Guard and Raider Adventure Training. Selected students may voluntarily attend weekend Leadership Camps and week-long summer encampments where they practice leadership and teamwork skills with students from other high schools, on actual military installations. This course may only be repeated with Senior Army Instructor (SAI) approval.

### **LET-200 LEADERSHIP EDUCATION AND TRAINING II (LET II)**

LET II is the second of four levels of JROTC. The focus is similar to LET I, but in greater depth. **Students are required to wear JROTC uniforms weekly for the entire course.** Students are introduced to the values and principles of leadership, aspects of wellness, fitness, first aid, map reading, and the role of the U.S. Military in American History. Platoon drill & ceremony and assumption of low level leadership positions within the Battalion are emphasized. Participation in extracurricular activities and Community Service are encouraged. This course may only be repeated with SAI approval. **Prerequisite: LET-100** and the recommendation of the LET I Instructor.

### **LET-300 LEADERSHIP EDUCATION AND TRAINING III (LET III)**

This advanced JROTC course focuses on the roles of leadership in various staff positions, peer counseling and leadership assessment techniques. At this level students demonstrate their acquired leadership and communication skills by teaching skills acquired in previous LET courses. **Students are required to wear JROTC uniforms weekly for the entire course.** Participation in community Service-Learning Projects is required. Completion of this (LET III) level may enable students to enter the U.S. Army two pay grades higher than other enlistees. This course may only be repeated under extraordinary circumstances and only with SAI approval. **Prerequisite: LET-200** and the recommendation of the LET II Instructor.

### **LET-400 LEADERSHIP EDUCATION AND TRAINING IV (LET IV)**

This is the highest level of JROTC, reserved for Cadets of the highest caliber. It is conducted in a direct-study format under the personal direction of the Senior Army Instructor. The focus of this course is the practical application of leadership principles and techniques as they apply to the JROTC Battalion. LET IV Cadets are responsible for planning, coordinating and executing major JROTC activities and functions in school and in the community. They act as role models and mentors, and conduct supervised classroom instruction of subordinate LET I and LET II cadets in basic LET subjects. **Students are required to wear JROTC uniforms weekly for the entire course.** Only students who have excelled as LET II and III level Cadets will be considered for participation in the LET IV program. **Prerequisite: LET-300 and permission of the Senior Army Instructor.**

## ***ALLIED HEALTH PROGRAM OF STUDY***

The Allied Health program of study is a three (3) course Career & Technical Education (CTE) instructional program 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.

### **AHS-200 FUNDAMENTALS OF HEALTH SCIENCE (FHS)**

Fundamentals of Health Sciences (FHS) introduces students to careers in healthcare and is a prerequisite to the other Allied Health program of study courses. This course will explore the National Consortium for Health Science Education (NCHSE) National Health Science Standards and entry level healthcare skills as well as the language of medicine. Further, this course will be offered as an articulated course with Delaware Technical Community College (BIO100 – Medical Terminology). Students begin preparation for the National Consortium for Health Science Education (NCHSE) National Health Science Assessment. **Grade 10.**

### **AHS-300 ESSENTIALS OF HEALTH CAREERS (EHC)**

Essential of Health Careers (EHC) offers students the opportunity to become effective and efficient healthcare providers as they develop a working knowledge of various healthcare opportunities. As students identify the various areas of Allied Health, they will discuss the potential of education, advancement, employment opportunities, employment sites, and financial reward. 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. This course reinforces and builds upon medical terminology skills learned in the Fundamentals of Health Sciences (FHS) course and is a prerequisite to the Human Structure and Function (HFS) course. 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.

### **DT-BIO120 ANATOMY & PHYSIOLOGY I**

Anatomy & Physiology is offered as a dual-enrollment course (BIO120-Anatomy & Physiology I) for 5 credits from DTCC. Anatomy & Physiology introduces students to human anatomy and physiology; including the structure and function of cells, tissues, integumentary, skeletal, muscular, nervous, and endocrine systems. Students will learn physiology of each body system, as well as how to investigate common diseases, disorders, and emerging diseases. The prevention of disease and the diagnosis and treatment are addressed. This course reinforces and builds upon the knowledge and skills developed in the Fundamentals of Health Sciences and the Essentials of Health Careers courses. Students will take the National Consortium for Health Science Education National Health Science Assessment at the completion of this course.

## ***TEACHER ACADEMY***

The Delaware K-12 Teacher Academy program of study is a three (3) course Career and Technical Education (CTE) program that engages students in developing a realistic understanding of teaching while exploring the important 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.

### **TA-100 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.

### **TA-200 TEACHING AS A PROFESSION**

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

### **TA-300 FOUNDATIONS OF CURRICULUM AND INSTRUCTION (FCI)**

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

### **TA-500 TEACHER ACADEMY INTERNSHIP**

Teacher Academy Internship gives students the real world experience of working, planning and teaching in local schools. Students will take on responsibilities similar to a collegiate student teaching internship while at the same time, continuing to hone content planning and preparation, communication and delivery of instruction based on standards.

## **OTHER ELECTIVE COURSES**

### **CJ-123 CRIMINAL LAW JUSTICE**

This elective course emphasizes the structure of the court system and introduces students to the American legal system and basic legal concepts. Students will be taught the difference between civil and criminal law and will examine the structure and processes of the criminal justice system. Throughout the course students will explore a range of legal issues relevant to students' lives today. **Grades: 11, 12**

### **MUS-100 INTRO TO BAND**

This class is designed primarily for students who are new to a particular band instrument or may need a review and reinforcement of music reading, playing fundamentals and technique that are vital for lasting musical development on their instrument before joining the Concert Band and/or Marching Band. Fundamentals stressed include proper posture and playing position, development of characteristic tone quality and training in music literacy. Students in "Intro to Band" should expect to join Concert Band and Marching Band the following semester. The instruments offered are: Flute, Oboe, Clarinet, Saxophone, Trumpet, French Horn, Trombone, Euphonium, and Tuba. Students are given the opportunity to try the different instruments before they choose one to focus on. Rental and purchase options will be discussed in the first classes. Students will need to purchase their own lesson books and provide their own instruments that are in working condition. A few of the larger and/or more expensive instruments may be provided by the school, if possible. Percussionists will be limited and decided on during the 1<sup>st</sup> week of class. The main focus of beginning percussionists will be on learning the xylophone. Students of any grade level are welcome. Students will perform in the Winter and/or Spring Band Concerts. No audition is required for Intro to Band - all that is necessary is the desire and motivation to study a musical instrument! *Beginners welcome!*

### **MED-100 INTRO TO MEDICINE**

Students will focus primarily on exploration of careers in the medical profession and related allied health services. During the first year, the program will focus on medical terminology; health care settings with exploration in health careers; human growth and development; infection control; and beginning Anatomy and Physiology. Skill sets in the first year include vital sign measurement and recording. **Grades: 9, 10**

### **SAC-100 to 400 STRENGTH AND CONDITIONING**

This physical education elective is designed for the serious and dedicated student-athlete. Students will participate in various fitness activities with an emphasis on an intense weight training and conditioning program designed to meet the needs of the individual student-athlete. Students are required to dress and participate on a regular basis. **Prerequisite: Only those students approved by his/her physical education teacher are eligible for this advanced level class. Grades: 9-12**

### **SPEECH-100 GREAT MOMENTS IN SPEECH, MEDIA, AND COMMUNICATION**

This survey course will examine major transformational speeches, radio broadcasts, films, television programs, and Internet-based entertainment events and look at their impact on American and world culture and society. Various writing and presentations will assess the student's understanding of these great moments in media and communication history. **Grades: 11 & 12**

### **SPEECH-200 SPEECH AND COMMUNICATIONS**

Students will explore the basics of intrapersonal and interpersonal communication, public speaking and skills for career, college and personal advancement. **Grades: 11 & 12**

### **YRBK-100, YRBK-200 YEARBOOK**

This course provides interested and motivated 11<sup>th</sup> & 12<sup>th</sup> grade students the opportunity to enhance writing, communication, photography and graphic design skills as well as to work on the preparation, promotion and distribution of the high school yearbook. Students may work on aspects of the yearbook including: design, layout, graphic arts, business management, yearbook and ad sales, and photography. **Prerequisites: Successful completion of a Business, Digital Design or ARV course.**

## **ADDITIONAL PROGRAM OFFERINGS**

**International Baccalaureate Diploma Programme** is recognized worldwide as an interdisciplinary approach to a liberal arts education in a rigorous environment. The International Baccalaureate Organization was founded in 1965, to develop an international standard for high student achievement that could be recognized worldwide. All curriculums at Sussex Central High School are based on Delaware State Standards and the Common Core. International Baccalaureate course syllabi with topics and goals have been submitted to International Baccalaureate for approval. **Only students who have applied to the International Academy at Sussex Central High School and who have been accepted are eligible for these courses.**

**Dual Enrollment** is a partnership with Delaware Technical and Community College and University of Delaware for the 2021-2022 school year. Dual enrollment provides our students with the opportunity to earn traditional high school credits as well as college credits while taking the same course. DTCC classes will be taught by Sussex Central High School instructors during the normal school day. A DTCC professor/mentor will be assigned to each Sussex Central dual enrollment teacher in order to ensure that coursework meets collegiate standards. Courses taken through UD will be offered either synchronously or asynchronously and will be taught by a UD professor. **Fee required for DTCC courses (except for Anatomy). UD courses are free.**

**Sussex County Academic Challenge** is a program where qualified students can take accelerated courses in English and/or mathematics at Del Tech. It is possible to earn up to twenty-seven college credits (12 English, 15 Math) from Del Tech through this program. Must have started program in 8<sup>th</sup> grade.

**MLL Program (Multi Language Learners)** at Sussex Central High School supports students who have tested below a 4.8 on the ACCESS state English Proficiency test. Students are grouped according to grade and are supported in their core classes by an ELL teacher. Students also take an extra English language course and academic tutorial to help them earn credits in their core classes. Students learn and practice how to speak, read, write and listen in English.



## AP COURSE OFFERINGS AND DESCRIPTIONS

### **ELA-111 AP ENGLISH LANGUAGE AND COMPOSITION**

**This course is designed for the highly motivated student who has advanced reading and writing skills, and who seeks advanced placement standing in a four year college.** Literature study will reflect a refinement of linguistic and rhetorical analysis and independent evaluation of authors' choices in these areas. Students will concentrate on various composition writings, including analytical, argumentative, and synthesis essays. While writing, students will prove theses on how written language works, using concrete examples which analyze diction, syntax, and rhetorical style. Language analysis and research essays are required, and independent projects and readings are vigorously pursued. The study of literature will include thematic and historical perspectives. Formal vocabulary study relevant to the course is included. Students enrolling in this course will be expected to take an AP exam. This course aligns with State and National Standards and prepares students for the AP exam. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in previous Honors course. Students may need to complete a summer reading assignment and writings. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ELA-121 AP ENGLISH LITERATURE AND COMPOSITION**

**This course is designed for the highly motivated student who has advanced reading and writing skills, and who seeks advanced placement standing in a four year college.** The study of English and world literature will examine the thematic, historical, social, political, and cultural contexts that inform works from ancient to modern times. Students will concentrate on varied composition writing using sound, independent judgment, logic, and argument, as well as critical literary theory. Extensive research is required, and independent projects and readings are vigorously pursued. Literature study will reflect a refinement of dialectic response applications in seminar-style discussions; participation and class leadership are mandatory. Vocabulary study relevant to the course is included. Students enrolling in this course will be expected to take an AP exam. This course aligns with State and National Standards and prepares students for the AP exam. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer reading assignment and writings. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **SCI-101 AP BIOLOGY**

This course is designed for those students who intend to pursue science related fields in college and who seek advanced placement standing in college. The course will include cell biology, genetics, animal diversity, anatomy and physiology of humans, and ecological interactions of organisms in the biosphere. Laboratory work will be stressed. **AP Requirement: Due to the rigor of this course, students are required to complete tenth grade biology before enrolling. Teacher recommendation from current teacher or a minimum final grade of a B+ from a previous Biology course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).** **NOT OFFERED 2023-2024**

### **SCI-111 AP CHEMISTRY**

This course is a continuation of the chemistry concepts learned in Physical Science, Biology and Chemistry/Physics. This is a fast-paced course designed to those students who seriously intend to pursue science related fields of study in college and who seek advanced placement standing in college. The course will include all content and concepts included in the AP exam. Topics include atomic/molecular structures, equilibrium, organic chemistry, chemical and nuclear reactions, and more. This is a lecture-intensive course with concept emphasis through laboratory studies. **AP Requirement: It is required that students complete eleventh grade Honors Chemistry and Algebra 2 before enrolling. Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors Chemistry course. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### SCI-121 AP PHYSICS

AP Physics is a course covering five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics and atomic and nuclear physics. Students will gain an understanding of physics' core principles and then apply them to problem-solving exercises. They'll learn how to measure the mass of a planet without weighing it, find out how electricity makes a motor turn and learn how opticians know how to shape the lenses for glasses. The equivalent of an introductory college-level course, AP Physics B prepares students for the AP Exam and for further study in science and engineering. **AP Requirement: Due to the rigor of this course, it is required that students have completed Algebra 2 and Precalculus/Trigonometry with a minimum final grade of a B+. Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors Physics course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### ENV-401 AP ENVIRONMENTAL

The goal of this AP Environmental Science course is to prepare students for college level science classes. This includes college style labs and textbook. Students will be expected to complete reading and writing assignments outside of class for each chapter, some class time will also be dedicated to this. Students will spend class time conducting labs, discussing current environmental issues and other hands on activities. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. There are several major unifying themes that cut across the many topics included in the study of environmental science.

**AP Requirement: Teacher recommendation from current teacher or a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

**Prerequisite: Biology with a minimum final grade of a B+. Chemistry is a pre- or co-requisite. **NOT OFFERED 2023-2024****

### MATH-131 AP PRECALCULUS **\*new**

In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. AP Precalculus prepares students for other college-level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. **Students in this course will be expected to complete a highly academic and rigorous level of study. AP Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+. Prerequisite: Algebra II.**

### MATH-141 AP CALCULUS

This course will cover the topics of differential and integral calculus as included in a first semester college calculus course. Specific topics for the AP test will also be covered in depth. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers). Prerequisites: Pre-calculus and Trigonometry.**

### PS-121 AP STATISTICS

This course introduces students to the major concepts and tools 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. Students should be comfortable with analyzing and solving real-world problems, paying close attention to details and using logic to assist in solving and supporting correct answers. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a**

**B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers). Prerequisite: Algebra II.**

#### **SS-101 AP WORLD HISTORY: MODERN**

This course investigates significant events, individuals, developments, and processes from 1200 to the present. All Delaware social studies standards are addressed and students will develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. **Honors Requirement: Teacher recommendation from current teacher or a minimum final grade of a B+.** Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).

#### **SS-111 AP U.S. HISTORY**

This course will be taught at an accelerated pace. This course is designed for students planning to attend a four year college. **This course can be taken as an elective. AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course.** Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).

#### **SS-121 AP EUROPEAN HISTORY**

This course will be taught at an accelerated pace and will focus on the history of Europe from Ancient times through the end of the Cold War. This course is designed for students planning to attend a four year college. This course is an elective. College credit may be achieved if the student scores high enough on the AP exam. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course.** Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).

#### **SS-131 AP HUMAN GEOGRAPHY**

This course is designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and the alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They learn about the methods and tools geographers use in their science and practice. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course.** Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).

#### **SS-141 AP U.S. GOVERNMENT AND POLITICS**

AP U.S. Government and Politics is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course.** Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).

### **SPA- 401 AP SPANISH LANGUAGE**

Spanish AP Language is an advanced course conducted in Spanish. All grammar is reviewed in preparation for taking the AP Language exam. Listening and reading comprehension are emphasized, using authentic AP materials. Speaking skills are sharpened using the AP speaking prompts. Students learn to write challenging formats, again using AP-type prompts. Tests will be based on actual AP formats. **AP Requirements: Teacher recommendation from current teacher or a minimum final grade of a B+ in a previous Honors course. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ART-401 AP 2D ART & DESIGN (Analog Art Media)**

Students will develop a sustained investigation in 15 slides of research, developmental process, synthesis, and experimentations. Students will also submit five resolved art works in two-dimensional forms such as illustration, collage, printmaking, fashion illustration, cartooning, and design using a variety of media explorations. **AP Requirement: Approval of AP Art instructor and portfolio review of Art III work. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ART-501 AP DRAWING**

Twenty-four (24) works of AP quality will be generated in a drawing portfolio based on observational representational work. Students will be expected to match studio hours with research and sketchbook homework hours towards AP portfolio review requirements. **AP Requirement: Approval of AP instructor and portfolio review of Art III work. Summer assignment will be required by the first week of Fall semester. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ART-601 AP ART HISTORY**

This course will include a chronological study of fine art, photography, craft, and architecture, the meaning and the context in which the works were created, the audience, or consumers of the works, and the religious belief systems in which they played a role. This will allow serious students to develop a holistic understanding of the evolution and personal as well as cultural expression. Students will read, research and participate in discussion. Two hours of reading and study time and reading of chapter assignments for every hour spent in class is the minimum expectation of homework in this course. In preparation for the AP ART HISTORY EXAM, this course will cover Art History with units derived from the 36 chapters of Art Through the Ages, 13<sup>th</sup> edition in an introduction to college level coursework. The companion web site, will provide support with power point, digital slides, and supplemental information necessary for a full understanding of the content. Summer assignment of the preface and four chapter readings, outlines and notes in preparation for seminar sharing will prepare students for the pace and teamwork required in the course. **AP Requirement: Teacher recommendation from current History teacher. Students may need to complete a summer assignment. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ART-701 AP 3D ART & DESIGN**

Students will develop a sustained investigation of 15 slides of research, synthesis, process, experimentation, and revisions from their original question prompt. Mind-mapping, and orthographic drawings will lead to sculptural form development, recording of process and revisions. Students will also submit five resolved images of three dimensional works in a variety of media explorations. Works in sculpture may include wood, clay, wire, paper mache, paper, fabric and other media. Portfolio submission to AP for college credit will be expected. **AP Requirement: Teacher recommendation from current teacher. Students enrolling in this course will be expected to submit the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **DCT-401 AP 2D ART AND DESIGN (Digital Based)**

Develop your skills in a two-dimensional medium such as graphic design, photography, collage, printmaking, and others as you learn the principles of 2-D design. You'll create artwork that reflects your own ideas and skills and

what you've learned. **AP Requirement: Must have previous Graphic Design and Production coursework, successful completion of DCT-300 and permission of AP instructor. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers).**

### **ISS-401 AP COMPUTER SCIENCE**

The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. **Requirements: Teacher recommendation from current teacher. Students must complete required summer assignments. This course is only offered online asynchronously. Students enrolling in this course will be expected to take the AP exam. Test fee required (inquire with Guidance for information about test fee assistance and waivers.)**

## ACADEMIC CHALLENGE COURSE CATALOG

### ENGLISH

*Each course in the Level 1-3 English program aligns with the United States Common Core Standards of English Language Arts.*

#### ACE-025/Fundamentals of Language, Grammar, and Writing

Students learn the core fundamentals language, grammar, and writing. This course concentrates on developing skills through the use of literary texts and relevant fiction.

#### ACE-026/Fundamentals of Writing, Research, and Presentation

Students learn the core fundamentals of writing, research, and presentation with emphasis on: public speaking, writing informative and explanatory essays, writing for an audience, using technology, and conducting short research projects. Skills are developed through the use of informational texts.

#### ACE-033/World Literature

Students continue the progression of skills through World Literature, with an emphasis on evaluating speakers' points of view, writing arguments to support claims, gathering and using information from sources, citing evidence to support analysis, analyzing authors' uses of text and evaluating the claims made in a text. This course uses both literary and informational texts from a variety of cultures and traditions.

#### ACE-034/British Literature

Students continue the progression of skills through a survey of British fiction and nonfiction. Areas of focus include integrating multiple sources of information; writing informative/explanatory/analytical texts; analyzing the development of complex characters over the course of a text; analyzing multiple interpretations of a story, drama, or poem; and analyzing documents of historical and literary significance.

#### ACE-035/American Literature

Students develop skills through the study of American fiction and nonfiction. Particular attention is given to the writing process; using technology to produce, publish, and update writing products; drawing evidence from literary or informational texts to support analysis, reflection, and research; gathering relevant information from authoritative print and digital sources; analyzing how an author develops an argumentative or narrative text.

#### ACE-040/Writing and Research

Students continue to develop all of the skills from the previous courses and apply them to produce a research paper on a literary topic. The goal of the course is to prepare students to write at a level and depth appropriate for introductory, collegiate composition courses.

#### DT-ENG124 Oral Communications

Delaware Technical Community College course designed to improve listening and oral communications skills through practice in individual and group research and presentations.

#### DT-ENG129 Creative Writing

Delaware Technical Community College course designed to foster creativity and improve writing skills through practice in writing essays, short stories, and literature critiques.

### DT-ENG111 Honors Composition

Delaware Technical Community College advanced writing course that focuses on high order critical reading (analysis, synthesis, contextualization, and evaluation) and presentation skills. The course emphasizes sophisticated approaches to argumentation and research that are informed by cultural studies theory

### ENG128 African American Literature

Delaware Technical Community College literature course that traces the contributions of African Americans from the colonial era to the present.

### ENG129 Creative Writing

Delaware Technical Community College course designed to foster creativity and improve writing skills through practice in writing essays, short stories, and literature critiques.

### COM246 Introduction to Film

Delaware Technical Community College course that reviews the language concerning the technical structure of film and all its components to include cinematography, sound, lighting, casting, storyboarding and scriptwriting. It also allows students to convey their opinions to an audience as well as analyze a film's impact on society and culture.

## MATHEMATICS

### ACM-011 Algebra I

Students study terminology, properties, polynomial operations, factoring, fractional simplification, exponents, and roots and coordinate graphing and solving of linear equations, linear inequalities, and quadratic equations.

### ACM-012 Algebra II

Students study functional notation, basic principles of coordinate geometry; systems of equations and inequalities; complex numbers, sequences and series. Students develop skills for solving and graphing quadratic, polynomial, exponential, and log-arrhythmic equations and functions.

### ACM-021 Geometry

Students study postulates and definitions with and emphasis on the development of deductive reasoning through direct and indirect proofs. Geometric inequalities, perpendicularity, parallelism, congruence, similarity, circles, constructions, polygons, and solids are other areas of focus.

### ACM-024 Functions, Statistics & Trigonometry

Students focus on data presentation with central tendency and variability analyses; probability and counting rules; sampling; estimation hypothesis testing; Chi-square and analysis of variance; and simple regression and correlation.

### ACM-032 Pre-Calculus A

Central concepts of Algebra are reviewed and unified around the notion of a function and its graph (polynomial, rational, exponential, and logarithmic).

### ACM-023 Trigonometry & Pre-Calculus B

A continuation of Pre-Calculus A, this course includes computational and analytical Trigonometry and with a focus on vectors, polar coordinates, and parametric equations. Techniques for solving

systems of equations will be presented to include matrices and matrix operations. Analytic Geometry includes conics and rotated conics with applications.

*DT-MAT281 Calculus I*

DTCC course that includes the study of functions, limits, and continuity; differential calculus of algebraic and trigonometric functions with applications; and an introduction to the development of the definite integral.

*DT-MAT282 Calculus II*

Delaware Technical Community College course that provides a study of integral calculus of algebraic, trigonometric, exponential, and logarithmic functions with applications. Topics include methods and applications of integration, infinite series, parametric equations, and polar coordinates.

*DT-MAT251-Finite Math*

Delaware Technical Community College course that covers selected algebraic topics, including mathematics of finance, systems of linear equations and matrix algebra, linear programming, properties of probability and probability distributions, Markov chains, and techniques of applied problem solving.

*DT-MAT283 Calculus III*

Delaware Technical Community College course that provides a study of partial derivatives, multiple integrals, line integrals, and vectors.

*DT-MAT255 Statistics I*

Delaware Technical Community College course that covers the basic concepts of data organization, measures of central tendency, variability probability and probability distributions, sampling and sampling distributions, estimation dealing with population means and proportions of large and small samples, and hypothesis testing. This course includes techniques of applied problem solving.

*DT-MAT256 Statistics II*

Delaware Technical Community College course that covers hypothesis testing of means and proportions, chi-square test, analysis of variance, regression and correlation analysis, nonparametric testing methods, and statistical process control. Topics include techniques of applied problem solving using data analysis software such as Excel.

*DT-PHY281 Physics I with Calculus*

Delaware Technical Community College calculus-based physics course which includes the study of vectors, kinematics, dynamics, energy, momentum, gravitation, rotational motion and dynamics, equilibrium, oscillations, and mechanical properties of matter.



## INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAMME

The International Baccalaureate Programme is recognized worldwide as an interdisciplinary approach to a liberal arts education in a rigorous environment. The International Baccalaureate Organization was founded in 1965, to develop an international standard for high student achievement that could be recognized worldwide. All curriculums at Sussex Central High School are based on Delaware State Standards and the Common Core. International Baccalaureate course syllabi with topics and goals have been submitted to International Baccalaureate for approval.

**Only students who have applied to the International Academy at Sussex Central High School and who have been accepted are eligible for these courses.**

### **IB-ELA300 (Gr. 11), IB-ELA400 (Gr. 12) International Baccalaureate - English HL**

*Prerequisite: Application to IB Programme*

The International Baccalaureate English A Higher Level is a demanding two-year pre-university level course that requires extensive outside reading and writing. Students are encouraged to explore and expand the appreciation for the art of the written word, develop critical thinking skills via analysis of literary texts, expose students to global literature, increase cultural awareness, foster intercultural curiosity, awareness, acceptance, and respect, and most importantly – create life-long learners. Assessments will be internal (in school) and external (out of school – as mandated by IB) and will include, and is not limited to, short and long written essays and oral/visual presentations.

### **IB-MATH800 (2 year course Gr. 11 and 12) Mathematics Analysis & Approaches SL**

*Prerequisite: Application to IB Programme*

This course is for students who enjoy developing their mathematics to become fluent in the construction of mathematical arguments and develop strong skills in mathematical thinking. They will also be fascinated by exploring real and abstract applications of these ideas, with and without technology. Students who take Mathematics: analysis and approaches will be those who enjoy the thrill of mathematical problem solving and generalization.

### **IB-MATH600 (2 year course Gr. 11 and 12) Applications & Interpretation SL**

*Prerequisite: Application to IB Programme*

This course is for students who are interested in developing their mathematics for describing our world and solving practical problems. They will also be interested in harnessing the power of technology alongside exploring mathematical models. Students who take Mathematics: applications and interpretation will be those who enjoy mathematics best when seen in a practical context.

### **IB-CHEM300 (Gr. 11), IB-CHEM400 (Gr. 12) International Baccalaureate - Chemistry SL**

*Prerequisite: Application to IB Programme*

The International Baccalaureate Chemistry SL course combines academic rigor and study with the inclusion of practical and investigational skills through the experimental approach (labs). Students learn the chemical principles that connect both the physical environment and biological systems through the study of quantitative chemistry, periodicity, kinetics and other related and relevant subjects. The course creates an environment for each student to intimately understand the scientific process enough to advance their knowledge base so that they can apply principals needed to new and challenging situations. Chemistry SL is a two year course.

### **IB-BIO300 (Gr. 11), IB-BIO400 (Gr. 12) International Baccalaureate - Biology SL**

*Prerequisite: Application to IB Programme*

IB Biology (SL) is a two year course designed for highly motivated students who are interested in biology and ready to accept the challenge of the IB curriculum and examinations. There is an emphasis on a practical approach through experimental work. The group 4 project (which all science students must undertake), mirrors the work of real scientists by encouraging collaboration between schools across the regions.

### **IB-SEH300 (Gr. 11), IB-SEH400 (Gr. 12) – International Baccalaureate Sports, Exercise & Health Sci SL**

*Prerequisite: Application to IB Programme*

The SEHS course incorporates the disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health. A combination of syllabus content and experimental work provides the opportunity for students to acquire the knowledge and understanding necessary to apply scientific principles and analyze human performance. This course has strong international dimensions such as international sporting competition and the international bodies that regulate them. Ethical issues that exist within sporting competitions are considered. The SEHS curriculum provides excellent preparation for university courses including those specifically related Sports Science or Physical Education.

### **IB-HAM300 (Gr. 11), IB-HAM400 (Gr. 12) International Baccalaureate - History of Americas HL**

*Prerequisite: Application to IB Programme*

The International Baccalaureate History of the Americas HL course is a two-year course. The first year is completed in the History of the Americas with a special emphasis on the United States, and the second year as seniors in 20th Century World History. This academically rigorous course focuses on the American region's historical experience and its development of political, economic, and social systems. Students are expected to refine and apply their skills of historical interpretation and analysis as demonstrated by discussion, presentation, and written work.

### **IB-AF300 (Gr. 11), IB-AF400 (Gr.12) International Baccalaureate – French Ab Initio SL**

*Prerequisite: Application to IB Programme*

The International Baccalaureate French Ab Initio SL course is designed to be a two-year experience for students who are not intending to pursue college credit for an IB French course. This course is for students who have little or limited exposure to the French language. Students develop the ability to communicate in the target language through the study of language, themes and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive and interactive skills across a range of contexts and purposes that are appropriate to the level of the course. The language ab initio syllabus is organized into five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet.

### **IB-AS300 (Gr. 11), IB-AS400 (Gr.12) International Baccalaureate - Spanish Ab Initio SL**

*Prerequisite: Application to IB Programme*

The International Baccalaureate Spanish Ab Initio SL course is designed to be a two-year experience for students who are not intending to pursue college credit for an IB Spanish course. This course is for students who have little or limited exposure to the Spanish language. Emphasis is placed on student communication competency and proficiency in each of the four language skills: listening, speaking, reading, and writing. Students examine and discuss a variety of topics related to Hispanic cultures.

### **IB-SPA300 (Gr. 11), IB-SPA400 (Gr. 12) International Baccalaureate - Spanish SL**

*Prerequisite: Application to IB Programme*

The International Baccalaureate Spanish SL course is designed to be a two-year experience. The activities will focus on the four basic skills of language acquisition – listening, speaking, reading, and writing – through a variety of different media. Students will be required to read unabridged literature written in Spanish, write in the target language, and participate in conversations completely in the target language. Emphasis will be placed on the application of advanced grammatical skills, usage of an expanded vocabulary with new idiomatic expressions, theme writing, and participation in both prepared and spontaneous conversations.

### **IB-ART300 (Gr. 11), IB-ART400 (Gr. 12) International Baccalaureate - Arts HL**

*Prerequisite: Application to IB Programme*

The International Baccalaureate Arts HL is a two-year course involving studio work and research assignments for support and documentation of the students' artistic journey. The course enables students to engage in both practical exploration and artistic production, and in independent contextual, visual and critical investigation. The course is designed to enable students to study visual arts in higher education and also welcomes those students who seek life enrichment through visual arts. Students enrolled in this course will be involved in studio/lab work, study of art history, criticism and aesthetics.

### **IB-BUS300 (Gr. 11), IB-BUS400 (Gr. 12) International Baccalaureate - Business Management HL**

*Prerequisite: Application to IB Programme*

The International Baccalaureate Business Management Course is a two-year course designed to develop students' knowledge and understanding of business management theories, as well as their ability to apply a range of tools and techniques. Students learn to analyze, discuss and evaluate business activities at local, national and international levels. The course covers a range of organizations from all sectors, as well as the socio-cultural and economic contexts in which those organizations operate. It also covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing and operations management. The course also develops subject-specific skills, such as financial analysis.

### **IB-TOK300 (Gr. 11), IB-TOK400 (Gr. 12) TOK (Theory of Knowledge)**

*Prerequisite: Application to IB Programme*

TOK is a course that explores the aspects of obtaining knowledge within interdisciplinary subjects. Through this course students will consider themselves the knower, with activities and discussions aiming to help students and express their views on knowledge issues. The learner will realize his ability to make cross discipline connections and critically examine holistic knowledge. Learning will be accomplished through daily participation in journal reflections, projects, presentations, and written responses to specific prompts. CAS (Creativity, Action, Service) and EE (Extended Essay) requirements will also be explored during this time.

### **IB-THR300 (Gr. 11), IB-THR400 (Gr. 12) International Baccalaureate -Theatre HL**

*Prerequisite: Application to IB Programme*

Theatre is about transformation. The Diploma Programme theatre course is designed to encourage students to examine theatre in its diversity of forms from around the world. Students will develop the organizational and technical skills needed to express themselves creatively both individually and as a member of an ensemble. Students work to develop a clarity of understanding, critical thinking skills, reflective analysis, effective involvement and imaginative synthesis – all of which should be achieved through practical engagement in theatre. Theatre HL is a two-year course – the four assessments to be submitted to IB will be completed the second year.

### **IB-DNC300 (Gr. 11), IB-DNC400 (Gr. 12) International Baccalaureate - Dance HL**

*Prerequisite: Application to IB Programme*

The IB Dance curriculum offers a comprehensive approach to dance and a variety of traditions and dance cultures. Performance, creative and analytic skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum provides students with an arts and humanities orientation to dance. This instruction facilitates the development of students who may become choreographers, dance scholars and/or performers.

## DUAL ENROLLMENT AT DEL TECH & UD

**Dual Enrollment** is a partnership with Delaware Technical and Community College and University of Delaware for the 2023-2024 school year. Dual enrollment provides our students with the opportunity to earn traditional high school credits as well as college credits while taking the same course. DTCC classes will be taught by Sussex Central High School instructors during the normal school day. A DTCC professor/mentor will be assigned to each Sussex Central dual enrollment teacher in order to ensure that coursework meets collegiate standards. UD classes will be taught asynchronously by a UD professor.

### DTCC COURSES

**DT-BIO120 ANATOMY & PHYSIOLOGY I (This course is for Allied Health Pathway Students ONLY)**  
Anatomy & Physiology is offered as a dual-enrollment course (BIO120-Anatomy & Physiology I) for 5 credits from DTCC. Human Structure and Function (HSF) introduces students to human anatomy and physiology; including the structure and function of cells, tissues, integumentary, skeletal, muscular, nervous, and endocrine systems. Students will learn physiology of each body system, as well as how to investigate common diseases, disorders, and emerging diseases. The prevention of disease and the diagnosis and treatment are addressed. This course reinforces and builds upon the knowledge and skills developed in the Fundamentals of Health Sciences and the Essentials of Health Careers courses. Students will take the National Consortium for Health Science Education National Health Science Assessment at the completion of this course. **Pre-requisites: College ready in reading and writing (SAT Verbal > 480 or 3.0 GPA), Successful completion of AHS 200 & AHS 300 Grade: 12**

### **DT-MAT 162 STATISTICAL REASONING – DTCC (4 credits/fee required) \*new**

Statistical Reasoning is organized around broad statistical concepts with statistical literacy and thinking as the primary themes. Students are expected to actively *do* statistics which includes analyzing data, constructing and testing hypotheses, solving problems, reflecting on work, and making connections. This is a first course in statistics intended specifically for students in nursing and allied health, but is appropriate for any student whose college and career paths require knowledge of the fundamentals of the collection, analysis, and interpretation of data. **Prerequisites: College ready in mathematics (SAT Math > 490 or 3.0 (83%) GPA) Grade: 12**

### **DT-PSY121 GENERAL PSYCHOLOGY – DTCC (3 credits, fee) \*new**

This course is a survey of general principles underlying human behavior and mental processes. Topics include the nervous system, perception, learning, motivation, personality, and psychological disorders. Methods of assessment and research principles are discussed. **Pre-requisites: College ready in reading and writing (SAT Verbal > 480 or 3.0 GPA), Grades: 11, 12**

### UD COURSES (3 credits/free)

Asynchronous UD courses will vary – talk to your counselor if interested. **Prerequisites: GPA > 3.6, SAT Verbal & Math >600, Successful completion of rigorous courses (Honors, AP, IB, etc) Grades: 11, 12; Check Schoology post for more information**