

SUSSEX ACADEMY

COURSE

HANDBOOK

2019 - 2020

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Dear Students and Parents:

Welcome to the 2019-2020 Course Handbook!

Course selection booklets provide all students and parents with the necessary information to make informed decisions about their studies. It is important that you take the time to familiarize yourself with the course offerings that are available to you, and the requirements that you must satisfy in order to meet the graduation criteria. We are excited to be offering a wider range of courses this year, including IB and AP, that are designed to provide students with the educational foundation necessary to be successful in whatever post-secondary journey they wish to pursue.

Please note that there have been changes to the graduation requirements and career pathways for the 2022 and 2023 graduating classes. We encourage you, as a family, to take the time to consider your future aspirations and goals and to keep those in mind when selecting your courses for next year. As with all good course selection booklets, the goal is to provide you with the information necessary to determine what kind of education you want. High school is a time to challenge yourself and to rise to meet those challenges, but high school is also a time of academic exploration and discovery. Sussex Academy is among the top high schools in Delaware and we encourage all students to recognize the extraordinary offerings and opportunities Sussex Academy has to offer.

In the months after course selection, we will build a master schedule of classes; the schedule will be built based upon the courses students select during the course selections process, therefore it is our expectation that students will select carefully and seek counsel from their parents, their teachers, and their school counselor. Ultimately, it is our goal to build a master schedule that best provides students with the classes of their first choice, and that can only be done in partnership with your serious attention to this process.

Enjoy the Process,

Mr. Eric M. Anderson

Head of School

GRADUATION REQUIREMENTS

Class of 2020 and Class of 2021

Subject	Credits Required	Other Requirements
English	4	
Math	4	One credit must be earned in 12 th grade
Social Studies	4	One credit must be U.S. History
Science	4	One credit must be Biology
World Language	4	
Physical Education	1	
Health	½	
Career Pathways	3	
Theory of Knowledge	1	*½ credit starting with Class of 2021
Community Service/ CAS	1	
Elective	½	*1 credit for Class of 2021
Total	27	

Class of 2022 and beyond

Subject	Credits Required	Notes
English	4	
Math	4	One credit must be earned in 12 th grade
Social Studies	3	One credit must be U.S. History
Science	3	One credit must be Biology
World Language	2	Many colleges prefer to see 3 or more credits
Academic Pathway-related course	1	<ul style="list-style-type: none"> • If STEM Pathway: take one additional Science or Math credit • If Liberal Arts Pathway: take one additional Social Studies or World Language credit
Physical Education	1	
Health	½	
Career Pathways	3	
Theory of Knowledge	½	
Community Service (Class of '22) *Senior Project	1	* beginning with Class of 2023, this will be a Senior Project
Elective	4	
Total	27	

Additionally, students may be required by the State of Delaware to meet minimum scores on state-mandated tests.

Post-Secondary Plan (PSP)

The Post-Secondary Plan (PSP) is intended to help teens identify and consider post-secondary career and educational goals and develop a plan to pursue those goals.

Students in grades 9-12 must complete the annual requirements of the PSP, as outlined by Sussex Academy, in order to graduate.

PROMOTION REQUIREMENTS

In order for high school students to be promoted, they must meet the following criteria and credits: (core courses include English, Math, Science, Social Studies, and Spanish).

Promotion from 9th to 10th grade:

- Minimum of 6 credits, including 4 core course credits.
- Fewer than 17 absences*

Promotion from 10th to 11th grade:

- Minimum of 11 credits, 7 of which must be earned in core subjects
- AND it is possible to satisfy all graduation requirements in 2 additional years.
- Fewer than 17 absences*

Promotion from 11th to 12th grade:

- Minimum of 19 credits, 13 of which must be earned in core subjects
- AND it is possible to satisfy all graduation requirements in 1 additional year.
- Fewer than 17 absences*

*The Student Support Team (SST) may elect to override this rule if there is substantial evidence that the student's pattern of absences was warranted and did not dramatically affect academic achievement.

The courses and descriptions contained in this Course Handbook are planned for the upcoming school year, but are subject to change based on low enrollment, curriculum changes, or staffing changes.

IB, AP, Dual Enrollment, Honors, and College Preparatory Classes

Core subjects (English, Math, Social Studies, Science, and World Language) are offered at various levels:

- **College Preparatory (CP)** courses prepare students for colleges. College Prep courses do not receive any weighting toward GPA.
- **Honors** subjects implement challenging curricula that prepare students for college, but may not necessarily be taught using college-level material. Honors courses usually go more in depth and at a faster pace and use higher-level materials than College Prep courses. Based on teacher recommendations, students may change levels from year to year. Honors courses receive a +0.5 weighting toward GPA.
- **Advanced Placement (AP)** courses are rigorous college-level courses that prepare students to take an exam to demonstrate accomplishment of college material and attain college credit. AP courses receive a +1 weighting toward GPA.
 - **In order to take AP courses, students must complete an application and receive a positive evaluation of skills from their current teachers.**
 - Most AP courses are best suited for 11th and 12th graders, but AP Computer Science Principles can be taken as early as 10th grade. Consideration will be given for exceptional 10th graders on a case by case basis.
 - **Students who are in an AP course are required to take the AP exam.** (AP Computer Science Principles is the only exception.) *Students who do not take the exam will lose the +1 quality point weighting of AP courses.*
- **Dual Enrollment** courses are taught by Del Tech instructors and use the same syllabus and materials as the comparable course taught on their campus. Students will be expected to complete the same curriculum as a Del Tech student, and they will receive Del Tech credit that may be transferable to other colleges. Dual Enrollment courses receive a +1 weighting toward GPA.
- **International Baccalaureate (IB)** subjects are taught according to the rigorous college-level expectations established by the IB. They not only include exams, they also include assessments such as presentations, research papers, experiments, and recorded commentaries or conversations that are graded by our teachers and also are assessed and moderated by IB. Emphasis is placed on developing the traits described in the Learner Profile and developing skills and attributes that will enable success at the college level. Many colleges grant credits for IB courses, especially at the Higher Level; consult individual college websites for details. IB courses receive a +1 weighting toward GPA.
 - Theory of Knowledge is an IB-based course. All juniors are required to take Theory of Knowledge.
 - Almost all IB courses are 2-year courses during junior and senior year. Sussex Academy does offer courses (IB Design Tech SL) that may be completed in one year if prerequisites have been met. Students completing an IB course in one year are called “anticipated” students.
 - **In order to take one or more IB courses, students must complete an application and receive a positive evaluation of skills from their current teachers.**

To earn the IB Diploma, students must meet ALL of the following requirements:

1. Students must earn the minimum grade in each of 6 IB classes: English, Social Studies, Science, Math, Language, and Arts (or a different class from the other 5 core classes). Grades are a combination of an IB final exam as well as other forms of internally (teacher graded) and externally (submitted to IB) graded assessments.
2. Students must also meet the requirements for each of the 3 components of the IB “core:” Creativity, Activity, and Service (CAS), Theory of Knowledge (TOK), and Extended Essay (EE).
3. Of the 6 courses, at least 3 must be Higher Level (HL).

Note that there is a minimum number of points required to earn an IB Diploma. See the IB Handbook for more information. The IB Diploma requirements are separate from (above and beyond) the credits required to receive a Sussex Academy and State of Delaware high school diploma.

IB Courses / Certificates

While all qualified students who are committed to the goals of the Diploma Program are encouraged to pursue the IB Diploma, some students may wish to attempt the IB subject requirements for fewer than 6 subjects. When a student takes individual IB subjects but does not attempt the full Diploma Program, IB calls these “IB Courses,” and IB issues these students “Certificates” upon completion of each course. For example, a student may pursue IB Courses in only two courses, or a student may even choose to pursue 4 or 5 IB Courses. Students have the flexibility to challenge themselves to meet all of the IB expectations only in their areas of strength or interest. Note that Sussex Academy requires all of its students to take at least 1 IB class junior and senior year; TOK may be used to meet this requirement.

At the completion of the IB Course and final IB exam, the student receives an IB Certificate which states that the student completed the IB course and also reports the grade. **If the IB Certificate is earned in a Higher Level subject AND meets the minimum grade requirement, colleges may grant college credit or advanced standing (similar to AP classes).** For this reason, students might consider challenging themselves to at least one Higher Level subject.

TOK is *required* to earn a Sussex Academy High School Diploma even though CAS, TOK, and EE are *not* required to earn an IB Certificate. This means that **students who are not attempting the IB Diploma do not need to complete the Extended Essay and may complete the SA Community Service requirements instead of the CAS requirements.**

Due to the different assessments which are required of DP and Courses students, students must declare their intention to attempt an IB Diploma or Course *in the spring of the sophomore year*. Students will officially register and pay for IB final exams at the beginning of their senior year (students who are taking the one-year IB Design Tech SL course will need to register in fall of junior year). Students may therefore change from IB Diploma to IB Course or Honors (or from IB Course to Honors) until the spring of the junior year. After the start of junior year, it is not possible to switch from IB Course or Honors to IB Diploma due to the additional IB requirements. Note that registering for year 2 of an IB course will signal a commitment to take the IB exam at the end of the course. **All students registering for an IB Year 2 course will be required to pay all exam and registration fees, as outlined in the IB Handbook.**

ENGLISH

College Preparatory English 9 (Grade 9) *1 credit*

College Prep English 9 emphasizes the development, improvement and refinement of basic language skills and literary understandings through close reading and annotation of texts. Students read and improve their understanding of fiction and nonfiction, literary themes, structures, and details and use techniques of research and technology to produce and present oral and written compositions with MLA documentation. While many of the same core texts are used in both College Prep English 9 and Honors English 9, the pacing in College Prep is more flexible with additional scaffolding and extended practice of skills. Assessments are based on Common Core State Standards for English.

Honors English 9 (Grade 9) *1 credit*

Honors English 9 focuses on building critical reading and thinking skills through close reading, annotation and analysis of texts. Students read and analyze fiction and nonfiction, interpret themes and central ideas and use techniques of research and technology to produce and present oral and written compositions with MLA documentation. Honors English 9 emphasizes detailed analytical skills development and students are expected to come prepared to lead discussions and work independently. Assessments are based on Common Core Standards for English.

College Preparatory English 10 (Grade 10) *1 credit*

College Preparation English 10 reinforces the language skills and literary understandings attained by students in English 9. Students refine their understanding of fiction and nonfiction, analyze literary themes, structures, and details, and use research and technology to produce and present oral and written compositions with MLA documentation. At the conclusion of the course, a student should be able to use language as a vehicle of thought, creativity, reflection, learning, self-expression and social interaction. Assessments are based on Common Core State Standards for English.

Honors English 10 (Grade 10) *1 credit*

Honors English 10 is for students who are interested in taking IB Literature HL during grades eleven and twelve. Honors English 10 develops students' ability to read for breadth and depth. Students practice using analysis to develop an appreciation of how literature informs an understanding of one's self and the world. Methods of assessment and their scoring criteria align to both IB Literature HL and the Common Core State Standards for English.

Honors Literature 11 (Grade 11) *1 credit*

Honors Literature 11 is a survey of American literature from the period of exploration and settlement to the modern day. Students study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Students analyze American literature by a range of authors, and reflect upon how literature serves as a mirror for the character and experiences of American culture. Students will focus on contextual and academic vocabulary, understanding rhetoric, understanding of the text's component parts (figurative language, imagery, symbolism, syntax, tone, style, and diction) and

applying critical lenses. Texts will offer connections between American literature and American history, and students will analyze these literary works as expressions of individual or communal values within the social, political, cultural, or religious contexts of different literary periods. Assessments align to both the Common Core State Standards (CCSS) for English and are preparatory for the completion of the SAT exam.

Honors Literature 12 (Grade 12) *1 credit*

Honors Literature 12 2019-2020 will survey literature from North and South America. In future years, this will expand to introduce texts from around the world.

Honors Literature 12 is a survey of North and South American literature from the period of exploration to the modern day, with texts and written assessments designed to fully prepare students for the rigors and challenges of college writing and academic reading. Students study works of prose, drama, fiction, nonfiction, and other artistic artifacts in relation to their historical and cultural contexts. Students reflect upon how literature serves as a mirror for cultural character, experiences, traditions, and capital. Students will focus on academic, cultural, and contextual vocabulary, and will develop the skills needed to deconstruct the covert and overt messages contained in cultural texts. The understanding of a text's overall strategies (structure, style, theme) will be discussed and evaluated via a variety of student writing assignments, including research-based arguments. Students will apply their learning to current events and to examples of academic reading and writing from across the curriculum. Assessments align to the Common Core State Standards (CCSS) for English.

IB Literature HL (Grades 11 and 12) *1 credit per year*

Prerequisite: submission of IB course application; successful completion of Honors English 10, and successful completion of summer assignments. Students enrolling in year 2 of this course must take the exam.

Students apply critical and analytical skills to works of traditional and contemporary world authors. Because the themes of the literature explore values and issues of the world-wide culture, the voice of each author may give frank examination of the human condition. The discussion of literature is itself an art which requires the clear expression of ideas both orally and in writing. In addition to the final external IB exams, students complete an Oral Commentary and Interview as well as an Individual Oral Presentation.

MATH

Beginning with the 2018-19 school year, AP Computer Science Principles or AP Computer Science A may be used to satisfy a mathematics graduation credit. Students are still required to take Integrated Math 1, Geometry, and Algebra 2 (or the equivalent courses).

Integrated Math 1 1 credit

Integrated Math 1 is a foundational course that encompasses several types of mathematics. Students will be engaged in meaningful learning and real world applications while they learn skills in algebra, geometry and probability. The integrated approach helps ensure deep understanding of the content and enhances continuity in skills.

College Preparatory Geometry 1 credit

Prerequisite: Successful completion of Algebra 1 in 8th grade, or Integrated Math 1 in 9th grade

Geometry relates algebra topics to real world problems through the use of formulae and applications. Mathematics specific vocabulary is essential to success in this course. Students who take this course will experience several types of proofs, learn about key characteristics of triangles and polygons, and develop better reasoning and logic skills.

Honors Geometry 1 credit

Prerequisite: Successful completion of Algebra 1

Honors Geometry covers material at a faster rate and also more in-depth than CP Geometry. This course relates algebra topics to real world problems through the use of formulae and applications. Mathematics specific vocabulary is essential to success in this course. Students who take this course will experience several types of proofs, learn about key characteristics of triangles and polygons, and develop better reasoning and logic skills.

Honors Algebra 2 1 credit

Prerequisites: Successful completion of Algebra 1 and Geometry

Algebra II is a course that builds upon the student's ability to reason through complex situations using prerequisite skills while learning new concepts. Math-specific vocabulary will continue to be used throughout the course. Concepts in advanced linear, quadratic, exponential, logarithmic, and polynomial functions will be developed.

Honors Pre-calculus 1 credit

Prerequisites: Successful completion of Algebra 2

Pre-calculus incorporates the previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include complex functions, systems of equations, trigonometric ratios and functions, inverse trig functions, applications of trigonometry, inverses of functions, limits, and first derivatives.

Senior Math Topics (Grade 12 only) *1 credit*

Prerequisites: Algebra 2

This course serves those students who are interested in pursuing a college degree that is in a non-math or non-science field. The content includes advanced algebra topics, trigonometry, test-taking skills such as SAT or ACT prep, and also focuses on honing the student's calculator ability.

Honors Calculus (Grade 12) *1 credit*

Prerequisites: Successful completion of Pre-Calculus

Honors Calculus provides students with a rigorous course in calculus with in-depth instruction in the basic concepts of calculus. The course is designed for students who are planning on enrolling in a 4-year college or university. The focus will be on functions, limits and differential calculus and will also incorporate real world problems including related rates and optimization.

IB Math SL (Grades 11 and 12) *1 credit per year*

Prerequisites: Successful completion of Algebra 2, IB course application, and successful completion of summer assignments. Students enrolling in year 2 of this course must take the IB exam.

This course serves as a rigorous foundation for important math concepts without the additional content included in IB Math HL. The content includes advanced algebra, trigonometry, statistics, probabilities, and calculus topics. Math SL is recommended for students who are planning on future studies in subjects such as chemistry, psychology, economics and business administration. Students will need to complete the IB Internal Assessment as well as the end-of-course exams (two 1.5 hour exams, one with GDC and one without).

IB Math HL (Grades 11 and 12) *1 credit per year*

Prerequisites: Successful completion of Algebra 2, IB course application, and successful completion of summer assignments. Students enrolling in year 2 of this course must take the IB exam.

This course is designed for students who are expecting to include mathematics as a major component of their college studies, or for students who have a strong interest in mathematics. Math HL includes a problem-solving approach to topics such as advanced algebra and trigonometry, induction proofs, statistics and probabilities, as well as in depth calculus topics. Math HL is recommended for students who are considering a career in engineering, physics or computer science. Students will need to complete the IB Internal Assessment as well as the end-of-course exams (a 2 hour exam without GDC, a 2 hour exam with GDC, and a 1 hour exam with GDC).

SCIENCE

College Preparatory Integrated Science (Grade 9) *1 credit*

This course is designed to introduce students to basic laws of physics, chemistry principles, and earth science knowledge that can be used to explain and interpret the world around them. Students will explore physics, chemistry, and earth science fundamentals through hands-on laboratory experiences, demonstrations, and activities. Students will learn to be scientific thinkers as they investigate the structure and properties of matter, the connections between matter and energy, and the foundations of the formation of the universe and earth.

Honors Integrated Science (Grade 9) *1 credit*

This course is designed to provide students with an in-depth understanding of the laws of physics, chemistry principles, and earth science concepts that can be used to explain and interpret the world around them. Students will explore physics, chemistry, and earth science through inquiry-based, hands-on laboratory experiences, demonstrations, and activities. Students will learn to critically analyze and interpret data as they investigate the structure and properties of matter, the connections between matter and energy, and the foundations of the formation of the universe and earth. Students will perform complex experiments and create detailed lab reports that demonstrate their understanding of these interrelated concepts.

College Preparatory Biology (Grade 10) *1 credit*

The content of this course encompasses interrelationships of living things, levels of biological organization, cellular biology, biochemistry, genetics, and evolution. This course will include laboratory work, study of specimens, projects, and a thorough understanding of scientific inquiry. Students should be prepared to conduct projects and write a formal lab report. Instruction centers around inquiry based learning that is incorporated into class activities. Real world application is a daily objective. Higher-level thinking will be incorporated into each lesson as well as use of technology when applicable to increase student achievement.

Honors Biology (Grade 10) *1 credit*

Prerequisite: Honors Integrated Science

The content of this honors level course will encompass interrelationships of living things, levels of biological organization, cellular biology, biochemistry, genetics, and evolution. This course will provide an in depth foundation in biology which will include laboratory work, study of specimens, projects, and a thorough understanding of scientific inquiry. Students will **often** work independently from the teacher in order to achieve student autonomy expected of upper school students. Real-world application is a daily objective. Higher-level thinking will be incorporated into each lesson as well as use of technology when applicable to increase student achievement.

AP Biology (Grade 11 or 12) *1 credit*

Prerequisite: Successful completion of Honors Biology and Honors or IB Chemistry (taken or concurrently enrolled); AP course application; students must take the exam at the end of the course or lose the weighted quality points.

AP Biology is a year-long course designed for high school students as an opportunity to demonstrate college-level work on their high school transcript, as well as placement credit for an introductory college-level science course. This course is aligned to the College Board AP Biology Curriculum Framework and is based on four Big Ideas: Evolution, Metabolism and Homeostasis, Genetics and Heredity, and Interactions of Living Systems. This course will encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about living organisms and biological systems. Much of class time will be devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. This course is designed to prepare students for the Biology College Board Advanced Placement Exam.

College Preparatory Chemistry (Grade 11) *1 credit*

Prerequisite: College Preparatory or Honors Biology

In College Preparatory Chemistry, students will learn basic concepts in high school chemistry. An emphasis is placed on developing problem solving skills as well as interpersonal skills in a laboratory setting. Experimental investigations will supplement concepts in discovering, verifying, and reinforcing learning. Laboratory reports will assess experimental design, data collection, and evaluation of results. Topics include measurement and data processing, quantitative chemistry, atomic structure, periodicity, bonding, energetics, kinetics, acids and bases, and nuclear chemistry.

Honors Chemistry (Grade 11) *1 credit*

Prerequisite: Honors Biology

In Honors Chemistry, students will learn concepts in chemistry that will provide preparation for taking college courses in chemistry. An emphasis is placed on developing strong analytical problem solving skills as well as interpersonal skills in a laboratory setting. Experimental investigations will supplement concepts in discovering, verifying, and reinforcing learning. Laboratory reports will assess experimental design, data collection, and evaluation of results. Topics include measurement and data processing, quantitative chemistry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidation and reduction, and nuclear chemistry.

IB Chemistry SL (Grades 11 and 12) *1 credit per year*

Prerequisite: Honors Biology, IB course application, and successful completion of summer assignments. Students enrolling in year 2 of this course must take the exam.

In IB Chemistry, students will learn advanced concepts in chemistry that will provide comprehensive, rigorous preparation for taking college courses in chemistry. An emphasis is placed on exemplifying the IB learner profile while developing international mindedness. Theory of knowledge analysis supplements each topic in chemistry as the content is learned and then mastered. Students will participate in the IB Group 4 project as well as complete the Internal Assessment to fulfill International Baccalaureate requirements. Topics include measurement and data processing, quantitative chemistry, atomic structure, periodicity, bonding, energetics, kinetics, equilibrium, acids and bases, oxidation and reduction, organic chemistry, and medicinal chemistry.

Honors Physics (Grade 12) 1 credit

Prerequisite: successful completion of Honors Precalculus or year 1 of IB Math SL/HL

Honors Physics investigates the theory and applications of Newton's laws, mechanics, energy, electricity, and electromagnetism. Mathematics and problem-solving is stressed throughout the course. This elective course is designed for students with an interest in majoring in science or engineering. *May be used to satisfy either STEM Pathway or science graduation requirement, but not both.*

Honors Anatomy (Grade 11 or 12) 1 credit

Prerequisite: Successful completion of Honors Biology

This course includes the study of general anatomy of the human body from a systematic approach. Beginning with an introduction to medical terminology and basic life needs, the focus on this course will be on the microanatomy of cells, basic histology and the organs of the integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary and reproductive systems. Students will gain an understanding of body structures through the use of microscopes, dissections, research, projects, observations and experimentation. This course is highly recommended for any students interested in pursuing a career in health & human services.

Honors Environmental Science (Grade 11 or 12) 1 credit

Prerequisite: Successful completion of or concurrent enrollment in Chemistry

Honors Environmental Science is a year-long course designed to show thematic connections between a variety of science disciplines including biology, chemistry, and physics. It gives students a coherent and realistic picture of the applications of a variety of scientific concepts as they manifest in our environment. This course focuses on human population growth, natural resources use, ecosystem dynamics, renewable energy, and environmental policy. The aim of this course is to increase student knowledge of the environmental challenges of today, while continuing to cultivate scientific critical thinking skills.

AP Environmental Science (Grades 11 or 12) 1 credit

Prerequisite: Honors Biology, Honors or IB Chemistry (taken or concurrently enrolled); AP course application; students must take the exam at the end of the course or lose the weighted quality points

AP Environmental Science is a year-long course designed for high school students as an opportunity to earn AP credit on their high school transcript as well as placement credit for an introductory college-level science course. The AP Environmental Science course provides students an opportunity to explore scientific principles, concepts, and methodologies that will aid in their understanding of the interconnectedness of the natural world. Students will identify and analyze environmental problems, the risks associated with these problems and possible solutions and/or prevention strategies. Students explore science as a process and will come to understand that energy conversions underlie all ecological processes and that the earth itself is one giant interconnected system which humans are constantly altering. Students investigate environmental problems from not only a scientific perspective, but social and cultural context as well. This course is designed to prepare students for the Environmental Science AP Exam designed by the College Board.

SOCIAL STUDIES

College Preparatory Integrated Social Science (Grade 9) *1 credit*

This course is designed to prepare students for upper level social studies courses by combining the mastery of state standards in civics, geography, and economics. Students will study the U.S. government system and the rights, duties, and responsibilities of citizenship. Geography will include the study of the world's peoples, places, and environments, with a focus on world regions. Particular emphasis will be placed on students' understanding and applying geographic concepts and skills to their daily lives. Economics will introduce basic economic principles and current economic issues with a focus on components of the U.S. economy, such as price, competition, business and banking institutions. The integrated nature of the course will enable students to see the connectedness of social studies and empower them to make better, informed decisions as active citizens.

Honors Integrated Social Science (Grade 9) *1 credit*

This course is designed to prepare students for upper level social studies courses by combining the mastery of state standards in civics, geography, and economics. Students will study the U.S. government system and the rights, duties, and responsibilities of citizenship. Geography will include the study of the world's peoples, places, and environments, with a focus on world regions. Particular emphasis will be placed on students' understanding and applying geographic concepts and skills to their daily lives. Economics will introduce basic economic principles and current economic issues with a focus on components of the U.S. economy, such as price, competition, business and banking institutions. The integrated nature of the course will enable students to see the connectedness of social studies and empower them to make better, informed decisions as active citizens. The Honors course will include more rigorous assessments, readings at more advanced level, faster pacing, and a more rigorous work load than the College Prep course.

College Prep Economics (Grade 10) *1 credit*

Prerequisite: Successful completion of CP or Honors Civics and Geography

Economics will introduce basic economic principles and current economic issues with a focus on the American economy. Students will study components of the American economy such as price, competition, business and banking institutions. Students will also examine issues related to the economy as a whole through employment and labor issues, the role of the government in the economy and selected topics on global economics. In the finance part of the course, students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money.

Honors Economics (Grade 10) 1 credit

Prerequisite: Successful completion of Honors Civics and Geography

Economics will introduce basic economic principles and current economic issues with a focus on the American economy. Students will study components of the American economy such as price, competition, business and banking institutions. Students will also examine issues related to the economy as a whole through employment and labor issues, the role of the government in the economy and selected topics on global economics. In the finance part of the course, students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money. This course is aligned to Delaware State Social Studies standards. The Honors course includes more rigorous assessments, readings at more advanced level, faster pacing, and a more rigorous work load than the College Prep course.

Honors U.S. History (Grades 11) 1 credit

Prerequisites: Successful completion of Honors Civics and Geography and Honors Economics and Personal Finance

This course provides a survey of American history from 1900 to the present day. Students will participate in debates, simulations, class discussion, research, note taking, and many other activities. Students will be exposed to literature, video material, magazine articles, and newspapers related to class topics. The course will emphasize critical thinking, problem solving, discussion and debating, and writing skills to assist students in their academic success. Students will use these activities, resources, and skills to develop a frame of reference and a solid understanding of the world in which they are living. Instructional materials will be differentiated for college prep and honors classes while aligning to Delaware State Social Studies standards.

Honors World History (Grade 12) 1 credit

Prerequisites: Successful completion of Honors Civics and Geography, Honors Economics and Personal Finance, and either Honors U.S. History or year 1 of IB History of Americas

This course focuses on the geographic, political, and economic conditions of Europe, Asia and Africa dating from the Industrial Revolution to modern times. Students will participate in debates, simulations, class discussions, research, note taking, and many other activities. Students will be exposed to literature, video material, magazine articles, and newspapers related to class topics. The course will emphasize critical thinking, problem solving, discussion and debating, and writing skills to assist students in their academic success. Students will use these activities, resources, and skills to develop a frame of reference and a solid understanding of the world in which they are living. Units and topics covered may include: Geography Skills Review, Industrial Revolution, Imperialism, World War I, Rise of Dictators, World War II and Middle East. Instructional materials will be differentiated for college prep and honors classes while aligning to Delaware State Social Studies standards.

IB History of Americas HL (Grades 11 and 12) *1 credit per year*

Prerequisites: Successful completion of Honors Civics and Geography, Honors Economics and Personal Finance, IB application, and successful completion of summer assignments.

Students enrolling in year 2 of this course must take the exam.

This course satisfies the Individuals and Societies component of the IB Diploma Program and will encourage students to develop the attributes of the IB learner profile. In accordance with the selected HL option 2, students will study the major political, economic, and social developments in the Americas during the Second World War, Cold War and the Civil Rights and social movements post 1945. The selected prescribed subject is Rights and Protest, with specific emphasis on the Civil Rights Movement in the United States and Apartheid in South Africa. The selected world history topics are causes and effects of 20th century wars and the Cold War superpower tensions and rivalries. The course is paced over a two-year period and will culminate with three external assessments for a total of five hours in May of the senior year. This will be 80% of the grade. An additional internal assessment in the form of a historical investigation from any area of the syllabus will account for 20% of the IB grade. Students who take Year 2 of the course will be required to take the IB exam in May of the senior year.

WORLD LANGUAGES

College Preparatory French 1 1 credit

Honors French 1 will help students to develop linguistic proficiency and cultural sensitivity. By interweaving French language and culture, the French 1 program will broaden students' communication skills in speaking, reading, writing, and listening in the French language. At the same time, the program will deepen student appreciation of other cultures where French is spoken.

Honors French 1 1 credit

Honors French 1 will help students to develop linguistic proficiency and cultural sensitivity. By interweaving French language and culture, the French 1 program will broaden students' communication skills in speaking, reading, writing, and listening in the French language. At the same time, the program will deepen student appreciation of other cultures where French is spoken. Honors French will go at a faster pace and more depth than College Prep French.

College Preparatory Spanish 1 1 credit

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

Honors Spanish 1 1 credit

This course is designed to give students a basic knowledge of spoken and written vocabulary through practice in listening, speaking, reading and writing. Students will be introduced to the culture of Spanish speaking countries. Speaking is emphasized from day one with a language immersion approach. In Spanish I students will start to become familiar with course requirements of IB Spanish. Instruction is primarily in Spanish. The Honors Course includes more rigorous assessments, faster pacing and starts early preparations for IB Spanish.

College Preparatory Spanish 2 1 credit

Prerequisite: Successful completion of Honors Spanish 1, or placement by recommendation or test

Students will further their understanding of Spanish with advancing grammatical study, reading and conversation designed to help them become more familiar with the cultures of Spanish-speaking nations. Instruction is primarily in Spanish.

Honors Spanish 2 1 credit

Prerequisite: Successful completion of Honors Spanish 1, or placement by recommendation or test

Students will further their understanding of Spanish with advanced grammatical study, reading and conversation designed to help them become familiar with the cultures of Spanish-speaking nations. In Spanish II, students will be assessed on multiple occasions in a fashion similar to the IB Spanish course. Instruction is entirely in Spanish.

Honors Spanish 3 1 credit

Prerequisite: Successful completion of Honors Spanish 2

Students will hone grammatical skills and conversational ability through project based learning, putting skills to use acquired in Spanish I and II. The course is designed to prepare students for collegiate level Spanish courses and will entail aspects of the IB course outline in structure of activities and some assessment components.

Honors Spanish 4 1 credit

Prerequisite: Successful completion of Honors Spanish 3

Students will utilize previously learned skills through project based learning in preparation of collegiate level Spanish. Focus will be on on grammatical mastery of the simple and compound tenses in addition to extended reading, writing activities, debates and discussions conducted entirely in Spanish.

IB Spanish SL (Grades 11 and 12) 1 credit per year

Prerequisite: Successful completion of Honors Spanish 2, IB course application, and successful completion of summer assignments. Students enrolling in year 2 of this course must take the exam.

In this course, students will improve listening, speaking, reading and writing skills in Spanish while discussing authentic literature and film, as well as current events. Cultural perspectives on topics will also be addressed, offering students the opportunity to cultivate a deeper understanding and compassion for people of all ethnicities. International mindedness and cultural comparisons are long-term outcomes of this course in addition to deep linguistic skills. Students will be required to complete internal assessments (a 15 minute interview) as well as the end-of-course exams, which are primarily essay-writing and listening comprehension.

IB Spanish HL (Grades 11 and 12) 1 credit per year

Prerequisite: Successful completion of Honors Spanish 2, IB course application, and successful completion of summer assignments. Students enrolling in year 2 of this course must take the exam.

In addition to the IB Spanish SL requirements, Spanish HL students will study a two works of literature, with a focus on literary analysis. For this reason HL students will be required to complete independent units outside of class time. HL students are expected to follow deadlines in order to fulfil this highly rigorous course. There also will be a deeper focus on writing for a number of different purposes and the use of appropriate vocabulary and format to appropriately prepare students for the HL examinations and written assignments. International mindedness and cultural comparisons are long-term outcomes of this course in addition to deep linguistic skills. This course is recommended for students with a high level of Spanish comprehension and productive skills. Students will will complete internal assessments (a 15 minute interview) as well as the end-of-course exams. The end-of-course exams include two 1.5 hour sections which are primarily essay-writing and listening comprehension. The assessments are similar to the IB Spanish SL in format, but require higher word counts and are subject to more rigorous scoring.

PHYSICAL EDUCATION/ HEALTH

Required courses for a State of Delaware high school diploma:

Physical Education 1 *½ credit*

Physical Education I promotes healthy living and knowledge of lifetime activities. Individual, group, and team activities will be used to condition, refine skills, and become proficient in a variety of recreational activities. PE 1 and 2 may be taken in any order, but both must be taken to satisfy graduation requirements.

Physical Education 2 *½ credit*

Physical Education 2 continues to focus on individual fitness levels through lifetime recreational, leisure, and fitness activities. PE 1 and 2 may be taking in any order, but both must be taken to satisfy graduation requirements.

Health *½ credit*

Health includes the study of physical, emotional, and mental health. Topics include emotional and social health, mental illness, substance abuse, and a study of the body systems, including reproductive health. This course assists students in understanding that health is a lifetime commitment that involves individual responsibility and decision-making.

CAREER PATHWAYS

Students are required by the State of Delaware to complete a minimum of 3 credits in a Career Pathway. Career Pathway credits are defined as “preplanned and sequential courses ...designed to develop knowledge and skills in a particular career or academic area.” (Title 14, DE Administrative Code, Section 505)

Sussex Academy’s primary goal is for its graduates to pursue a college degree. As such, Sussex Academy High School offers two Career Pathways. A student may use his/her Career Pathway to explore career interests or to simply learn more about a particular set of knowledge. Selecting a particular pathway does not obligate a student to pursue that type of career, but may simply provide a way to explore options and courses of interest.

All students take 1 credit in each of the 2 pathways their freshman year. At the end of 9th grade, students select the one pathway they would like to pursue. They then take 2 additional credits by the time they graduate (preferably one credit in 10th grade and one credit in 11th grade. Students in one pathway may take still courses in the other pathway, but those credits would count as electives.

Career Pathways for Classes of 2020, 2021, or 2022:

<u>STEM Pathway</u>	<u>Communications Pathway</u> (renamed the Liberal Arts Pathway, effective with Class of 2023)
Introduction to Engineering and Design 1 credit	Integrated Communications (½ credit) Elements of Writing (½ credit)
<i>Any of the courses below may count for the 2nd and 3rd credits:</i>	<i>Any of the courses below may count for the 2nd and 3rd credits:</i>
Principles of Engineering (1 credit) Design & Development (1 credit) AP Computer Science Principles (1 credit) AP Computer Science A (1 credit) IB Design Tech SL (1 credit) IB Design Tech HL (2 credits) AP or Honors Environmental Sci. (1 credit) AP Biology (1 credit) Cyber Security (½ credit) Robotics (½ credit) Digital Animation (½ credit) Honors Physics (1 credit)	Foundations of Graphic Design (½ starting 2019-20; 1 credit in 2018-19) Photography 1 and 2 (½ credit each) Print Media 1 and 2 (1 credit each) Advanced Graphic Design (½ credit) Drawing, Painting, Collage (½ credit) Printmaking (½ credit) Sculpture and 3D Design (½ credit) World Art (½ credit) Studio Art (½ credit) Honors Art (1 credit) Class Voice 1 and 2 (½ credit) Chorus (1 credit) Band (1 credit) Music Appreciation (½ credit) Music Theory 1 and 2 (½ credit) History of Musical Theatre (½ credit) Theatre Technology (½ credit) Drama 1 and 2 (½ credit)

STEM Career Pathway for Class of 2023 and beyond:

<h3 style="text-align: center;">STEM Pathway</h3> <p style="text-align: center;">Science, Technology, Engineering and Math</p>						
All 9th graders take:	STEM Essentials (½ credit) Environmental Science Essentials (½ credit)					
At the end of 9th grade, students choose a pathway and a strand	Engineering Strand	Computer Science Strand	Environmental Science Strand	STEM Exploration strand		
10th grade	Intro. to Design (1 credit; 10th grade)	AP Computer Science Principles (1 credit; 10th grade)	Environmental Issues (1 credit; 10th grade)	Select a total of 2 additional credits from any of the other 3 STEM strands; note that courses may have prerequisites.		
						
11th Grade	Principles of Engineering (1 credit; 11th grade)	IB Design Tech SL (1 credit; 11th grade) OR IB Design Tech HL (1 credit per year; 11th and 12th grade)	AP Computer Science A (1 credit)	Cyber Security (½ credit) And /or Robotics (½ credit) and/or Digital Animation (½ credit)	Marine Ecology (1 credit)	AP or Honors Environmental Science (1 credit)

Note: after students select their pathway at the end of 9th grade, they can change strands but cannot change pathways.

Students may select courses in a different pathway; these will count as elective credits.

Liberal Arts Career Pathway for Class of 2023 and beyond:

Liberal Arts Pathway

All 9th graders take:	Foundations of Art (½ credit) Freshman Seminar (½ credit)						
At the end of 9th grade, students choose a pathway and a strand	Graphic Design Strand	Art Strand	Vocal Strand	Instrumental Strand	Drama Strand	Liberal Arts Exploration Strand	
Grades 10,11, or 12 (note: some courses have prerequisites; see Course Handbook)	Foundations of Graphic Design (½ credit)	Drawing, Painting, Collage (½ credit)	Music Appreciation (½ credit)	Music Appreciation (½ credit)	History of Musical Theatre (½ credit)	Select a total of 2 additional credits from any of the other Liberal Arts strands; note that many courses have prerequisites.	
	Advanced Graphic Design (½ credit)	Printmaking (½ credit)	Introduction to Music Theory (½ credit)	Introduction to Music Theory (½ credit)	Music Appreciation (½ credit)		
	Project Management (1 credit)	Sculpture and 3D Design (½ credit)	Music Theory 1 (½ credit)	Music Theory 1 (½ credit)	Theatre Technology (½ credit)		
	Print Media 1 and 2 (1 credit each)	Honors Art (1 credit)	Music Theory 2 (½ credit)	Music Theory 2 (½ credit)	Drama 1 (½ credit)		
	Digital Photography 1 and 2 (½ credit)		Class Voice 1 (½ credit)	Band (1 credit) (max. 1 pathway credit)	Drama 2 (½ credit)		
	Composition and Design (½ credit)		Class Voice 2 (½ credit)				
			Chorus (1 credit) (max. 1 pathway credit)				Communications Intern (1 credit; 12 th grade only; may be applied to any strand)

Note: after students select their pathway at the end of 9th grade, they can change strands but cannot change pathways.

Students may select courses in a different pathway; these will count as elective credits.

COMMUNICATIONS or LIBERAL ARTS CAREER PATHWAY COURSES

These courses may also serve as elective credits for STEM Pathway students.

Read descriptions carefully and choose wisely. After the first interim in a course, all approved requests to drop a course will result in a “W” on the transcript for the course. Colleges often infer that the student was failing a course where a W is noted.

Foundations of Art (Grade 9) $\frac{1}{2}$ credit

Required for all 9th graders

Students will work in traditional art media such as drawing and painting in combination with digital skills in programs such as Adobe Photoshop and Illustrator. Through a focus on the understanding and application of the elements of art and principles of design, students will create unique and diverse works of art and develop language to be critical thinkers about the role visual art plays in communication.

Freshman Seminar (Grade 9) $\frac{1}{2}$ credit

Required for all 9th graders

Freshman Seminar is a required course designed to promote a successful transition between middle school and high school. Freshman Seminar will include the following topics: study/organizational skills, time management, test taking strategies, mindfulness, public speaking and communication skills, discovering individual learning styles, self-advocacy, philosophy, and an introduction to the senior capstone service project.

Foundations of Graphic Design $\frac{1}{2}$ credit

This course will provide students with an introduction to digital imaging and design through the study of digital image types, their structure, and supporting programs. Primarily concentrated on pixel-based graphics, students will work in Adobe Photoshop, and finish with an introduction to vector graphics through other Adobe programs such as Illustrator and InDesign. Students will gain mastery in using Tools, keyboard shortcuts, Layers, Channels, Filters, and Effects.

Advanced Graphic Design $\frac{1}{2}$ credit

Foundations of Graphic Design is a prerequisite. In this progressive study of computer graphics students will focus on advanced Photoshop techniques, build mastery in Adobe Illustrator and InDesign, and have an introduction to web design. Their work in photo enhancement partnered with client and marketing problem solving will drive graphic creation. There will be an emphasis on independent creative thinking and problem solving.

Project Management 1 credit

Students will be engaged in an array of school related projects and activities. Projects and activities will include but not be limited to: maintaining the school hallway TVs as a informational network, managing school pictures (Senior Portraits, fall HS and MS portraits, homeroom group shots and spring casual portraits), organizing and maintaining senior graduation orders (cap and gowns, senior announcements, senior wear), organizing Junior Class Ring sales and distribution, annual Junior Ring Ceremony, and helping plan and organize other school sponsored activities as needed. Students will also plan, organize and execute 2 service projects outside of the school day.

These activities will be conducted during 1st and 4th marking periods with the 2nd and 3rd marking period being dedicated to an online communications course.

Print Media 1 & 2 1 credit

Print Media 2 Prerequisite: Completion of Print Media 1 and Instructor approval

Print Media is a writing and graphic design course based on theories associated with student publications, including journalism, technology and life skills associated with the scholastic publications. Key principles of journalism and mass media as they function in a product based curriculum are practiced. Leadership, conflict resolution, time management, business and advertising skills will be explored. Students will assist in producing the school yearbook. Students will work independently and collaboratively **in and out** of the classroom to meet deadlines set by instructor. Good organizational and time management skills are a must.

Digital Photography 1 ½ credit

*Prerequisite: **STUDENTS WILL NEED TO PROVIDE THEIR OWN CAMERA. NO CAMERAS ARE PROVIDED FOR THIS CLASS.***

This is an introductory photography course designed to offer experiences with both point and shoot cameras and the more versatile single-lens reflex camera(SLR). The fundamentals of digital photography will be reviewed and practiced. This includes: shutter speed, aperture, F Stops/Exposure, ISO, depth of field. Digital processing techniques are introduced. A brief overview of the history of photography will be examined. Students are expected to start a portfolio of their images as well as maintain an organized binder of their handouts/work. Students will be required to work in and out of classroom to meet deadlines. Good organizational and time management skills are a must.

Digital Photography 2 ½ credit

*Prerequisite: Completion of Photography 1 OR Instructor approval. Cameras are not provided for this class. **Students MUST bring their own SLR camera (with manual and semi manual modes). A tripod and Macro lens will enhance this class' experience.***

This course will provide students with a variety of technique and creative skills to be used in digital photography. Emphasis on working in manual mode and semi-manual modes will be continued from Digital Photography 1. Students will write and speak about the aesthetic, technical and expressive qualities in a photograph while maintaining a portfolio of their work. Different compositional techniques will be practiced and discussed including framing, lighting, black and white photography, macro photography, portrait and group photography. Students will work both inside and outside the classroom to complete field and homework. Good organizational and time management skills are a must.

Composition and Design ½ credit

This course is an introduction for students to strengthening and expressing themselves with emphasis on creating projects based on elements of art and principles of design. Students will explore different eras of history to create both 2D and 3D art based on pattern and texture, hand lettering, form, color, line and space. This class will take layout and composition to the next level.

Drawing, Painting, & Collage *½ credit*

In this course students will explore traditional two-dimensional media as a visual language. Techniques in drawing will provide a foundation for the exploration of painting in acrylic and watercolor. Color theory, observation, and perception will play a key role as students work in achieving technical proficiency in painting and collage.

Printmaking *½ credit*

Students will explore the differences in representational, abstract, and non-representational art through printmaking media such as linoleum and wood relief, reduction printing, collagraph, and monoprinting. Processes will contrast creating multiples of an artwork and unique originals. Emphasis will be placed on theme and variation, craftsmanship, and the principles of design.

Sculpture and 3D Design *½ credit*

This class centers on form and texture through sculptural media such as paper mache, wire, paper construction, and non-traditional items. Through an emphasis on problem solving students will develop manual skills to conceptualize and develop well-crafted designs existing in three-dimensional space.

Honors Art *1 credit*

Prerequisite of 2 art courses with a minimum of 1 studio art course. In this advanced art class students will execute a variety of techniques with the goal to demonstrate mastery in media, composition, and communication of themes and ideas through visual art. Students will be critical thinkers and analysts of their own work and all art through the study of artists, art history, and critiques. At the end of class students will submit a portfolio for review.

Music Appreciation *½ credit*

Music Appreciation is open to all students at Sussex Academy. The purpose of this course is to increase students' musical awareness and give students the tools to actively listen to, discuss, and critique various styles of music. The first portion of the course will focus on learning the basic elements of music: Melody, Rhythm, Harmony, Form, Texture, Tempo, and Dynamics. Using appropriate music vocabulary, students will study and discuss a variety of musical genres, including Classical, Jazz, Rock, Opera, Musicals, etc.

Introduction to Music Theory *½ credit*

This course offers students an opportunity to learn and utilize the concepts of basic music theory. Reading and writing musical notation, pitches and scales, intervals, clefs, rhythm, form, meter, phrases and cadences, and basic harmony combined with using proper musical terminology will allow students to better understand music, as well as give them the tools necessary to write and compose music.

Music Theory I ½ credit

Prerequisite: Intro to Music Theory or instructor approval

This course is a continuation of Introduction to Music Theory. Students will study musical notation, pitches and scales, intervals, clefs, rhythm, form, meter, phrases and cadences, and proper musical terminology in more depth.

Music Theory II ½ credit

Prerequisite: Music Theory I

Music Theory II continues to explore the topics of Music Theory I in greater depth.

Class Voice I ½ credit

This class is designed to improve each student's singing voice and develop the ability to sing successfully in front of others and at auditions. During their course of study, they will be taught the fundamentals of healthy vocal production which includes the following: 1) proper posture and breathing to sing, 2) tone production, 3) diction, 4) expression, and 5) gaining confidence. Individual vocal problems will be assessed and exercises will be given to help strengthen and improve the voice. Students will sing together and also individually for class.

Class Voice II ½ credit

Prerequisite – Class Voice I

A continuation of Class Voice I designed for juniors and seniors. Song selections will be geared toward college auditions, and will include foreign language selections.

Chorus 1 credit

Emphasis is placed on correct vocal production in a variety of musical styles. Students are prepared and encouraged to audition for state music festivals. Freshmen may choose to take Band or Chorus in lieu of a study hall freshman year, but no credit will be awarded in the 9th grade. *Chorus may be taken more than one time, but only one credit may count as a pathway credit. Additional credits would count as electives.*

Band 1 credit

Prerequisite: Students must provide their own instrument and already know how to play it. More advanced music is learned to cultivate the continued appreciation of music in older students. Students are encouraged to audition for county and state music festivals. Freshmen may choose to take Band or Chorus in lieu of a study hall freshman year, but no credit will be awarded in the 9th grade. *Band may be taken more than one time, but only one credit may count as a pathway credit. Additional credits would count as electives.*

History of Musical Theater ½ credit

This course gives students the opportunity to evaluate and compare a variety of musicals from the nineteenth century to present-day Broadway Musicals, including Vaudeville, Operetta, Musical Comedy, Opera on Broadway, and Rock Opera. Students will examine composers, lyricists, producers, directors, choreographers, and performing artists who have contributed to the development of musical theater. Students will identify historical and cultural references and assess performances viewed in class and online to formulate an opinion of each production.

Theater Technology (Lighting, Sound, Stage Management) *½ credit*

Theater Tech is a semester course designed for all students interested in the non-performance side of theatre. Units include set design, lighting design, hang and focus, costume design, stage makeup, and sound design. Some after school and evening work is required.

Drama 1 and 2 *½ credit each*

Drama allows students to have a hands-on learning experience by experimenting with some of the basics of theatre: directing, acting, improvisation, set construction, costuming, props, makeup/hair, stage management, etc. During the semester, students help with either the fall play or spring musical (depending on the semester) and get to produce their own class play. Additional productions are also rehearsed and produced outside of the school day and are cast based on open auditions. Students may take Drama more than one time; Drama 2 students may have the opportunity for leadership roles.

Communications Intern (Grade 12) *1 credit*

Prerequisites: must be in 12th grade and apply for position using Educational Aide Application

Student will get on-the-job experience as a communications intern working closely with a Communications Manager. Must be responsible, reliable, and detailed-oriented.

STEM CAREER PATHWAY COURSES

Science, Technology, Engineering & Math

These courses may also serve as elective credits for Communications Pathway students. Credits taken to fulfill the STEM Pathway requirements may NOT also be used to fulfill science graduation requirements.

Read descriptions carefully and choose wisely. After the first interim in a course, all approved requests to drop a course will result in a “W” on the transcript for the course. Colleges often infer that the student was failing a course where a W is noted.

Environmental Essentials (Grade 9) $\frac{1}{2}$ credit

Required for all 9th graders

This introductory course is designed to stimulate interest and curiosity in environmental science, increase awareness of environmental problems and improve understanding of the interconnected nature of our surroundings. This hands-on, lab-based course includes an in-depth study of ecology, the relationships that exist within ecosystems, a survey of population biology and the issues that arise from exponential growth, and an exploration of renewable and non-renewable energy sources and strategies for energy conservation. A significant amount of time in this class will be outside investigating these scientific principles in the setting in which they occur.

STEM Essentials (Grade 9) $\frac{1}{2}$ credit

Required for all 9th graders

This course introduces students to concepts that are applicable across multiple STEM disciplines and empowers them to build technical skills through the use of a variety of tools, such as geographic information systems (GIS), 3D solid modeling software, and prototyping equipment. Using activity-project-problem-based (APB) instructional approach, students advance from completing structured activities to solving open-ended projects and problems that provide opportunities to develop problem solving, critical and creative thinking, collaboration, communication, and ethical reasoning. The course emphasizes statistical analysis, mathematical modeling, energy, torque, mechanical advantage, digital signals, and environmental science. Student projects include programming a microcontroller and using motors and sensors to develop a robotic device, designing and building a functioning generator run off of a renewable energy source, and creating an land/water vehicle.

Introduction to Design 1 credit

Prerequisite: Successful completion of STEM Essentials

Introduction to Design is a hands-on STEM course where students apply the design process along with their mathematics and science knowledge to engineer and develop products to solve problems. Students will develop skill in technical representation and documentation of design solutions according to accepted technical standards, and they will use current 3D design and modeling software to represent and communicate solutions. In addition the development of computational methods that are commonly used in engineering problem solving, including statistical analysis and mathematical modeling, are emphasized. Ethical issues related to professional practice and product development are also presented. At the end of the course, students will be able to assess a need for a product and identify the steps necessary to design a product and create a prototype using a 3D printer.

Principles of Engineering 1 credit

Prerequisite: Successful completion of Introduction to Design

POE is a project based STEM course where students explore topic that include mechanisms, the strength of structures and materials, and automation. They will learn about system efficiency, investigate thermal energy and alternative energy applications. They will experience solar hydrogen systems and thermal energy transfer through materials. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Students will perform destructive and non-destructive material testing, learn the processes of gathering, organizing, interpreting, and formulating an understanding of data through probability and statistics. Students will learn about control systems using robotics, experiment with various input devices, and learn how to create and adapt computer code to control system outputs.

Design and Development 1 credit

Prerequisite: Successful completion of Principles of Engineering

Design and Development gives students an opportunity to exercise the skills they have developed not only in their PLTW classes, but in other classes and in their personal experiences in general. Students will work in teams to solve a problem of their choosing. The class centers on using, documenting, and working through the engineering design process to address a real-world problem. The result is driven entirely by the process. Because the focus is on the problem and using the design process, the topic choices for students are infinite. Project management concepts are presented and students are required to create a project schedule in the form of a Gantt chart for the design project. The importance of thorough documentation is also emphasized, and students are required to keep an engineering notebook to document the design process for their project.

IB Design Technology SL (Grade 11 or 12) 1 credit per year

Prerequisite: Successful completion of Introduction to Design, teacher recommendation, and successful completion of summer assignments

Note: This course is an “anticipated” IB course since the requirements are met in one year rather than two. Students enrolling in this course must take the IB exam at the end of the course.

This course is structured to strongly connect design considerations with social issues, environmental impact, and making informed decisions. Students will study the technologies in different cultures and will be given the opportunity to deal with realistic engineering problems and to devise appropriate solutions. Topics include ergonomics, sustainability, modeling, raw material to production, innovation, and classic design. Students will take two IB external assessments in the form of exams and one internal assessment in the form of a 40 hour individual design project. Students will also participate in a Group 4 project in the form of a 10 hour group design project working with students in other Group 4 subjects. *May be used to satisfy either the IB Group 4 or IB Group 6 requirement, but not both. May not be used to satisfy science graduation requirement.*

IB Design Technology HL (Grade 11 and 12) 1 credit per year

Prerequisite: Successful completion of Introduction to Design, teacher recommendation, and successful completion of summer assignments. Students enrolling in this course must take the IB exam at the end of the course.

This course builds on the topics covered in the SL course. In Year 1, students will cover the topics that coincide with the SL course. In the second year, the HL course goes into more depth on sustainability, commercial production, designing for the consumer, and innovation. Students will take three IB external assessments in the form of exams and one internal assessment in the form of a 60 hour individual design project. Students will also participate in a Group 4 project in the form of a 10 hour group design project working with students in other Group 4 subjects. *May be used to satisfy either the IB Group 4 or IB Group 6 requirement, but not both. May not be used to satisfy science graduation requirement.*

Honors Physics (Grade 12) 1 credit

Prerequisite: successful completion of Honors Algebra 2 or year 1 of IB Math SL/HL

Honors Physics investigates the theory and applications of Newton's laws, mechanics, energy, electricity, and electromagnetism. Mathematics and problem-solving is stressed throughout the course. This course is designed for students with an interest in majoring in science or engineering. *May be used to satisfy either the science or STEM Pathway requirement, but not both.*

AP Computer Science Principles (Grades 11 or 12) 1 credit

Prerequisite: Successful completion of IED or STEM Essentials. Students must take the exam at the end of the course or lose the weighted quality points.

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking and introduce professional tools that foster creativity and collaboration. Computer Science Principles provides programming expertise and explore the workings of the Internet. Students will develop algorithms and GUI interfaces using Python. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course covers the topics to prepare students for the AP® Computer Science Principles test. *May also be used to satisfy a math graduation requirement for the State of Delaware, in addition to Algebra 1, Geometry, and Algebra 2. Some colleges, however, may not consider this a math credit.*

AP Computer Science A (Grades 11 or 12) 1 credit

Prerequisite: Successful completion of AP Computer Science Principles. Students must take the exam at the end of the course or lose the weighted quality points.

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

Cyber Security *½ credit*

Prerequisite: Successful completion of AP Computer Science Principles

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

Robotics *½ credit*

Prerequisite: None

Robotics focuses on the design and development of the mechanical, electrical, and programming fundamentals of robotics. Using gears, levers, and motors, student design the physical robot using VEX components. Various sensors are used to develop input/output scenarios to solve real world problems. Using both graphic and line coding, students learn how to implement variables, algorithms and loops to operate the robot in both autonomous and joystick control.

Digital Animation *½ credit*

Prerequisite: None

Students work in teams to develop computational thinking and solve problems. The course does not aim to teach mastery of a single application or program but aims instead to develop problem solving skills in the area of digital media using a variety of programs and applications. The course also aims to build students' confidence in using new programs through an understanding of how to use resources to self-learn programs. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Students will learn application skills in digital music development, digital image manipulation, digital animation, and digital video editing.

OTHER COURSES and ELECTIVES

Read descriptions carefully and choose wisely. After the first interim in a course, all approved requests to drop a course will result in a "W" on the transcript for the course. Colleges often infer that the student was failing a course where a W is noted.

Criminal Justice 1 *½ credit*

Prerequisite: Successful completion of Civics and Geography

This course is designed as a study of the history and philosophy of criminal justice and its ethical considerations. The nature and impact of crime is explored, and instruction includes an overview and study of the criminal justice system, law enforcement, investigation and evidence, the court systems, prosecution and defense, and trial processes.

Criminal Justice 2 *½ credit*

Prerequisite: Successful completion of Civics and Criminal Justice 1

This course will focus on special topics within the criminal justice field. Topics to be covered include: corrections, juvenile justice, terrorism, gangs, advanced investigations techniques, and current issues in law enforcement. Students will again apply these topics in a mock trial setting.

Driver Education (Grade 10) *¼ credit*

Prerequisite: official status as a tenth grader as of the beginning of the school year

Driver Education consists of classwork and behind-the-wheel training with emphasis placed on safety, defensive driving, and prevention. Discipline, driving skills, rules of the road, and related topics are discussed to promote safe and courteous drivers. Students must be academically eligible to receive their permit. See counselor for a list of other agencies who offer Driver Education for a fee.

Educational Aide (Grade 12) *½ credit*

Prerequisites: must be in 12th grade; complete application

Seniors have the responsibility of helping a designated department with daily tasks which may include photocopying, laminating, organizing materials, maintaining classroom displays, cataloguing library books, and other tasks that are integral to teacher efficiency. Interested students must be reliable, trustworthy, detailed-oriented, and able to work independently.

Aquatics Intern (Grade 12) *½ credit*

Prerequisites: proof of current American Red Cross, Ellis & Associates, or equivalent certification in lifeguarding, must be in 12th grade and apply for position using Educational Aide Application

Students in this course will get on-the-job experience as an aquatic intern. Responsibilities may include lifeguarding, testing pool chemicals, teaching swim lessons, and assisting with group swim classes.

Mindful Studies *½ credit*

Students will need to wear gym attire class and have a yoga mat for class. Students will be provided with the opportunity to become more open and attentive to the present moment. Through instruction and experiential exercises, student will learn how to observe their thoughts, feeling and emotions from a distance and without judgment. Students will learn to identify negative self –judging thoughts and practice finding compassion and gratitude for themselves and others. The goal of this course is to empower students to have resources to response to the pressures of life in a way that supports their emotional, mental and physical health.

Online Career Exploration *½ credit*

Grades 11 and 12 only; elective credit

Through an online platform, students can explore careers of individual interest. Students can learn more about a job they are curious about, or gain a skill for a career field they intend to pursue. Many choices are available; see Edmentum.com/course-catalog and read about the Career and Technical Education or Electives courses. *Students must have already demonstrated that they are reliable, can work independently, and are able to self-manage their time.*

DTCC Introduction to Business: BUS 101 *(half-year course; 1 credit)*

Prerequisites: Must be 16 years or older; must have SAT ERW score of 480 or higher, or pass Accuplacer test (administered at SA by Del Tech)

This is a Dual Enrollment course taught by a Del Tech instructor at Sussex Academy. This course is a survey of business functions including forms of business ownership, business environments, ethics, management, production, marketing, financial markets, and accounting.

DTCC Sociology: SOC 111 *(half-year course; 1 credit)*

Prerequisites: Must be 16 years or older; must have SAT ERW score of 480 or higher, or pass Accuplacer test (administered at SA by Del Tech)

This is a Dual Enrollment course taught by a Del Tech instructor. This course is delivered online, but an instructor is available to assist throughout the course. This semester-long course provides an analysis of American social organization and culture, through a cross-cultural perspective. Sociology investigates, describes and analyzes patterns of human behavior in all areas of human experience for the purpose of understanding the human condition.

DTCC Psychology: PSY 121 *(half-year course; 1 credit)*

Prerequisites: Must be 16 years or older; must have SAT ERW score of 480 or higher, or pass Accuplacer test (administered at SA by Del Tech)

This is a Dual Enrollment course taught by a Del Tech instructor. This course is delivered online, but an instructor is available to assist throughout the course. This semester-long course is a survey of general principles underlying human behavior and mental processes. It includes study of the nervous system, perception, learning, motivation, personality, and psychological disorders. Methods of assessment and research principles are discussed.

Theory of Knowledge (Grade 11) $\frac{1}{2}$ credit

Required for all 11th graders

Theory of Knowledge is an integral part of the IB philosophy and is required to earn a Sussex Academy Diploma. The course challenges students to reflect on the nature of knowledge and its relationship to their experiences in and out of the classroom. TOK examines the role of language and thought in knowledge, the requirements of logical rigor for knowledge, and the systems of knowledge. TOK leads students to critically evaluate what they know, and emphasizes examining moral judgements as they relate to knowledge. *IB Diploma candidates will take their TOK requirement as part of the IB DP Core class.*

Creativity, Activity, and Service (CAS) (IB DP students) 1 credit

All CAS requirements must be met outside of the regular school day.

CAS allows students to become involved in a range of activities that take place alongside their academic studies. CAS is a requirement of the IB Diploma. The component's three interwoven strands include Creativity (arts and other experiences that involve creative thinking), Activity (physical exertion contributing to a healthy lifestyle), and Service (unpaid and voluntary). For more information, please see the CAS Handbook. Credit is awarded upon successful completion of CAS requirements in spring of the senior year.

Outreach Community Service (Class of 2020, 2021, and 2022, except IB DP students)

1 credit total ($\frac{1}{4}$ credit awarded each year)

All OCS requirements must be met outside of the regular school day.

All Non-IB diploma students will be responsible for the Outreach Community Service (OCS) from August 1st through April 30th of the current school year. Students in grades 9-11th will be responsible for 45 hours (25 service hours, 10 creativity hours and 10 physically active hours) during the 2018-19 school year. Seniors (Non-IB) will be responsible for 35 hours (15 service hours, 10 creativity hours and 10 physically active hours). All students will reflect on one service and either one creative or physical activity from these experiences connecting at least 3 learner attributes. Reflections/ evidence/ logs are due May 1.

Senior Capstone Service Project (Starting with the Class of 2023) 1 credit total

Beginning in the freshmen year, students will identify a social or environmental cause to research and then design and put into action a service project that benefits their chosen cause. Students will ideally complete their research in their sophomore year, put their project into action in their junior year, and end with a capstone presentation in their senior year. Students will be assigned a mentor throughout the four-year process. (IB DP students can continue in junior year with their CAS project.)

IB DP Core Class

The IB DP Core Class focuses on the core elements of the Diploma Program including TOK (Theory of Knowledge), EE (Extended Essay) and CAS (Creativity, Activity, and Service). Students will learn the fundamentals of each IB core component. During the TOK portion of the class, students will be engaged in a reflective process in which they question their basis of knowledge. This process allows them to hone critical analytical skills that build a foundation for examining and evaluating their knowledge claims as well as better understanding the concepts and arguments of others. Students will study several Ways of Knowing and Areas of Knowing and make interdisciplinary connections about their knowledge. At the conclusion of the TOK course in their senior year, students will complete a

TOK Essay (EA) and a TOK Presentation (IA). Students will prepare for these assessments their junior year. During the Extended Essay portion of the class, students will use and analyze informational texts to learn the fundamentals of the EE. Emphasis will be placed on developing a focused research question, reading up on research, distinguishing between reliable and unreliable sources, and using advanced search features. Note-taking, creating well-developed outlines, using appropriate format, writing for a specific audience, and analysis of the EE guide will also be focuses. At the conclusion of the course, students will have the necessary skills for the individual research and writing of the EE. During the CAS portion of the class, students will learn the IB requirements of CAS and will explore different areas of creativity, activity, and service in order to independently complete their IB CAS requirements and portfolio.

Online IB Courses

In order to provide as many options to IB Diploma candidates as possible, Sussex Academy is pleased to offer online IB courses through Pamoja Education (PamojaEducation.com), the only authorized provider of online IB courses. Their IB curriculum includes a combination of live lessons, online discussions, activities, and assessments that meet all of the same rigorous standards as in-person IB courses. Due to the web-based nature of the course, it is likely that students will have online classmates from around the world. Students will be scheduled a dedicated period when they may work on their online IB course.

Due to the expense of the online platform, **Sussex Academy will pay the online tuition and fees *only* for those students who are Diploma Program students *and* who have reliably demonstrated excellent time management and self-discipline in their present coursework.** Students who wish to enroll in an online course should be dedicated to their success in the online course as they would all other in-person classes. A contract must be signed by both student and parent before online enrollment will be processed. A student wishing to withdraw from an online course will be responsible for any penalties or fees imposed from Pamoja Education.

Non-DP students who wish to enroll in an online course may do so at their own expense. The total cost is approximately \$2600 per 2-year course.

Before deciding to enroll in an online IB course, students should go to the Pamoja website (PamojaEducation.com) and read the detailed information about the courses in which they are interested. (All course information is from PamojaEducation.com)

Online IB courses accepted by Sussex Academy:

(all course descriptions are quoted from PamojaEducation.com)

IB Philosophy SL (IB Group 3)

Prerequisite: Coordinator approval; must be IB Diploma Program student or agree to pay all fees

IB Philosophy is a subject that tackles questions important to humanity. For example, what is it to be a human being and how do I know what is the right thing to do? You will learn how to think systematically, analyze arguments, and study philosophical themes. You will also be looking at problems facing contemporary society, including those resulting from increased international interaction.

IB Integrated Technology in a Global Society (ITGS) SL or HL (IB Group 3)

Prerequisite: Coordinator approval; must be IB Diploma Program student or agree to pay all fees

Information Technology in a Global Society looks at technological innovations and their social and ethical impact on the world today. ITGS is focused on three main strands: Social and ethical significance, Application to specified scenarios, and IT systems. The HL course also contains extension topics and an annually issued case study.

IB Business Management SL or HL (IB Group 3)

Prerequisite: Coordinator approval; must be IB Diploma Program student or agree to pay all fees

The Business Management course is a rigorous and dynamic course that explores how business decision-making processes are affected by, and impact on internal and external environments. You will develop your understanding of business theory, as well as the ability to apply business principles, practices and skills. The course covers: Business organization and environment, Human resources, Accounting and finance, Marketing Operations management, Business strategy (HL only).

IB Economics SL or HL (IB Group 3)

Prerequisite: Coordinator approval; must be IB Diploma Program student or agree to pay all fees

This course covers the study of economic theory and its applications in the world today. You will interpret economic data and statistics, apply relevant theory, and demonstrate this knowledge using written prose, diagrams and economic terminology. Economics is divided into four sections: *Microeconomics* which covers competitive markets, elasticity, government intervention, and market failure. HL also includes the theory of the firm and market structures. *Macroeconomics* which looks at the level of overall economic activity, aggregate demand and aggregate supply, macroeconomic objectives, fiscal, monetary and supply-side policies. *International Economics*. This involves learning about international trade, exchange rate, the balance of payments and economic integration and (HL only) terms of trade. *Development Economics*. This looks at economic development and how it is measured, the role of domestic factors, international trade, foreign direct investment (FDI), foreign aid and multilateral development assistance and international debt. The final topic is the balance between markets and intervention.

IB Psychology SL or HL (IB Group 3)

Prerequisite: Coordinator approval; must be IB Diploma Program student or agree to pay all fees

Psychology is the systematic study of behavior and mental processes. Psychology has a variety of research designs and applications, and provides a unique approach to understanding modern society. The core of the psychology course comprises the study of the biological level of analysis, the cognitive level of analysis, and the sociocultural level of analysis. There is also an investigation of research methodology and you will undertake an optional study of Abnormal Psychology. HL will also undertake the Psychology of Human Relationships.

IB Film SL (IB Group 6)

Prerequisite: Coordinator approval; must be IB Diploma Program student or agree to pay all fees

The Diploma Program film course develops students' skills so that they become adept in interpreting and making film texts. Through the analysis of film texts and exercises in film-making, the IB film course explores film history, theory and socio-economic background. It also develops students' critical abilities, enabling them to appreciate the variety of cultural and historical perspectives in film. Some of the topics include: the language of film, costume, music, lighting, camera movement, early cinema, German Expressionism, musicals of the 30s and 40s, Japanese cinema, and psychoanalytical film theory. Film studies include *Psycho*, *Breathless*, *The 400 Blows*, *Ikiru*, *The Good the Bad and the Ugly*, *Blade Runner*, *Pan's Labyrinth*, *Children of Men* and *Metropolis*. There are also several practical production projects. These short films (1-2 minutes) usually focus on a particular area of the creative process, such as lighting, editing, how to film a dinner table conversation, diegetic and Foley sound, and the visual interpretation of a poem. An iPad may be used to fulfill the film production requirements.

Academic Challenge Program

Students who successfully completed the eighth grade Academic Challenge program may choose to continue to participate in high school. This program offers students math and/or English courses at an accelerated pace. During the junior and senior year, the program allows for college coursework through the University of Delaware; careful consideration should be given to the balance of Academic Challenge coursework and the demands of the IB program during the junior and senior year.

Academic Challenge courses are awarded $\frac{1}{2}$ credit per semester course; they are weighted +0.5 quality points toward GPA.

AC English courses:

- Level 2 (9th grade): World Literature, British Literature
- Level 3 (10th grade): American Literature, Writing and Research *
- Level 4 (11th grade): Oral Communications (DTCC course), Critical Reading and Writing (UD course)

AC Math courses:

- Level 2 (9th grade): Geometry, Probability and Statistics
- Level 3 (10th grade): Pre-Calculus, Trigonometry and Pre-Calculus II
- Level 4 (11th grade): Calculus I (DTCC course), Analytic Geometry and Calculus B (UD course)

*It is recommended that students wishing to pursue the IB Diploma Program or IB Literature in 11th and 12th grade take Honors English 10 at SA in order to gain experience with the expectations of IB Literature. AC math students should consider taking AC math through 10th grade if they wish to pursue IB Math HL.

Educational Aide or Intern Application

Name _____ Date _____

Only **seniors** may apply to be an Educational Aide or an Intern. This is not a study hall; aides are expected to be prompt, responsible, trustworthy, and able to follow directions. **MAKE SURE THAT YOU HAVE MET OR WILL BE ABLE TO MEET ALL GRADUATION REQUIREMENTS *BEFORE* SUBMITTING AN APPLICATION.**

Intern Positions:

If you wish to be an intern, request the course on your Course Request sheet, check the position sought in the list below, and attach a paragraph stating why you wish to be granted the position. Intern positions are usually limited and therefore competitive.

- ___ Aquatics Intern
- ___ Communications Intern (Mrs. Derrickson)

Teacher's Aide positions:

If you wish to be a teacher's aide, request this position on your Course Request sheet, then number the departments below in the order you would prefer. Feel free to talk to teachers in the various departments to find out more about the expectations they would have. If you do not complete this form, you may be assigned to any department.

- ___ Library Aide
- ___ Science Department Aide
- ___ Math Department Aide
- ___ Social Studies Department Aide
- ___ Spanish Department Aide
- ___ English Department Aide
- ___ Arts Department Aide
- ___ STEM Department Aide

Complete and return this form to the Academic Counselor by May 10.

Sample 4 year plan for the Class of 2023

Freshmen in school year 2019-20
(individual schedules may vary)

All courses are one credit unless noted otherwise.

	9th grade		10th grade	11th grade	12th grade
English	Honors or CP English 9		Honors or CP English 10	Honors or CP Lit. 11 IB Lit. HL 1	Honors or CP Lit. 12 IB Lit. HL 2
Math	Integrated Math 1		Integrated Math 2	Integrated Math 3	Senior Math Topics
	Honors or CP Geometry		Honors or CP Algebra 2	Hon. Precalculus or IB Math 1	Honors Calculus or IB Math 2
Science	Honors or CP Integrated Science		Honors or CP Biology	Hon/CP Chemistry IB Chemistry 1 (May also take AP/Hon/CP Env. Sci., AP Biology, or Hon. Anatomy)	IB Chemistry 2 Honors Physics Honors Anatomy AP/CP/Hon Env. Sci. AP Biology
Social Studies	Honors or CP Integrated Social Science		Honors or CP Economics	Hon/CP US History IB History HL 1	Hon/CP World History IB History HL 2
Language	Honors or CP Spanish 1 Honors or CP French 1		Honors or CP Spanish 2 Honors or CP French 2	Hon/CP Spanish 3 IB Spanish 1 Hon./CP French 3 IB French 1	Hon/CP Spanish 4 IB Spanish 2 Honors or CP French 4 IB French 2
Career Pathway (take both in 9th grade then choose one)	Liberal Arts Pathway	Foundations of Art & Freshmen Seminar (½ cr. each)	Two more credits in any Communications or Liberal Arts courses (see pages 24-28)		Any remaining pathway credits needed
	STEM Pathway	Enviro. Sci. Essentials & STEM Essentials (½ cr. each)	Two more credits in any STEM courses (see pages 29-32)		
Other requirements			Driver Ed (¼ credit) PE 1 & Health (½ credit each)	Theory of Knowledge (½ credit) PE 2 (½ credit)	Academic Pathway-related course (1 credit)
Maximum # of credits per year	7.0 All 9 th graders receive a year-long study hall		7.25 ¾ - year study hall opposite of Driver Ed	7 or 7.5 Choice of year-long or semester-long study hall	7 or 7.5 Choice of year-long or semester-long study hall

Courses in RED font are not required for graduation; however it is STRONGLY recommended that college-bound students take as many core credits as possible.

Sample 4 year plan for the Class of 2022

Sophomores in school year 2019-20
(individual schedules may vary)

All courses are one credit unless noted otherwise.

	9th grade		10th grade	11th grade	12th grade
English	Honors English 9		Honors or CP English 10	Honors/CP Lit. 11 or IB Lit. HL 1	Honors/CP Lit. 12 or IB Lit. HL 2
Math	Honors Algebra 1		Honors or CP Geometry	Hon./CP Algebra 2	Hon. Precalculus Senior Math Topics
	Honors Geometry		Honors or CP Algebra 2	Hon. Precalculus IB Math 1	Hon. Precalculus Senior Math Topics IB Math 2
Science	Honors Integrated Science		Honors or CP Biology	Honors Chemistry or IB Chemistry 1 (May also take AP / Hon. Env. Science, AP Biology, or Hon. Anatomy)	Honors Physics Honors Anatomy Honors Env. Science IB Chemistry 2 Hon. or AP Enviro. Sci. AP Biology
Social Studies	Honors Civics and Geography		Honors or CP Economics	Honors U.S. History IB History HL 1	Honors World History IB History HL 2
Language	Honors Spanish 1		Honors or CP Spanish 2 Honors or CP French 1	Honors Spanish 3 IB Spanish 1 Hon./CP French 2	Honors Spanish 4 IB Spanish 2 Honors or CP French 3
Career Pathway	Communications (now called Liberal Arts)	Foundations of Graphic Design	Two more credits in any Communications or Liberal Arts courses (see pages 24-28)		Any remaining pathway credits needed
	STEM	Intro. to Engineering Design	Two more credits in any STEM courses (see pages 29-32)		
Other requirements	Elements of Writing (½ credit) Health (½ credit)		Driver Ed (¼ credit) PE 1 and 2 (½ credit each)	Theory of Knowledge (½ credit)	Academic Pathway-related course (1 credit)
Maximum # of credits per year	8		7.25 ¾ - year study hall opposite of Driver Ed	7 or 7.5 Choice of year-long or semester-long study hall	7 or 7.5 Choice of year-long or semester-long study hall

Courses in RED font are not required for graduation; however it is STRONGLY recommended that college-bound students take as many core credits as possible.

Sample 4 year plan for the Class of 2021

Juniors in school year 2019-20
(individual schedules may vary)

All courses are one credit unless noted otherwise.

	9 th grade		10 th grade	11 th grade	12 th grade
English	Honors English 9		Honors English 10	Honors Lit. 11 IB Lit. HL 1	Honors Lit. 12 IB Lit. HL 2
Math	Honors Algebra 1		Honors Geometry	Honors Algebra 2	Hon. Precalculus Senior Math Topics
	Honors Geometry		Honors Algebra 2	Hon. Precalculus IB Math 1	Hon. Precalculus Senior Math Topics IB Math 2
Science	Honors Integrated Science		Honors Biology	Honors Chemistry or IB Chemistry 1 (May also take AP / Hon. Env. Science, AP Biology, Hon. Anatomy)	Honors Physics Honors Anatomy Honors Env. Science IB Chemistry 2 Hon./AP Enviro. Sci. AP Biology
Social Studies	Honors Civics and Geography		Honors Economics and Personal Finance	Honors U.S. History IB History HL 1	Honors World Hist. IB History HL 2
Language	Honors Spanish 1		Honors Spanish 2	Honors Spanish 3 IB Spanish 1 Hon./CP French 1	Honors Spanish 4 IB Spanish 2 Hon./CP French 1 or 2
Career Pathway	Communications (now called Liberal Arts)	Communicative Arts (0.5) Elements of Writing (0.5)	Foundations of Graphic Design (required)	One more credit in any Comm. or Liberal Arts courses (see pages 24-28)	Any remaining pathway credits needed
	STEM	Intro. to Engineering Design	Principles of Engineering	One more credit in any STEM courses (see pages 29-32)	
Other requirements	PE (0.5) Health (0.5)		Driver Ed (¼ cr.) College Prep (¼ cr.) PE 2 (0.5)	Theory of Knowledge (1/2 credit)	-
Maximum # of credits per year	8		8	7 or 7.5 Choice of year-long or semester-long study hall	7 or 7.5 Choice of year-long or semester-long study hall

Sample 4 year plan for the Class of 2020

Seniors in school year 2019-20
(individual schedules may vary)

All courses are one credit unless noted otherwise.

	9th grade		10th grade	11th grade	12th grade
English	Honors English 9		Honors English 10	Honors Lit. 11 or IB Lit. HL 1	Honors Lit. 12 or IB Lit. HL 2
Math	Honors Algebra 1		Honors Geometry	Honors Algebra 2	Hon. Precalculus or Foundations of College Algebra
	Honors Geometry		Honors Algebra 2	Hon. Precalculus or IB Math 1	Hon. Precalculus or Foundations of College Algebra or IB Math 2
Science	Honors Integrated Science		Honors Biology	Honors Chemistry or IB Chemistry 1	Honors Physics or Honors Anatomy or Honors Env. Science or IB Chemistry 2
Social Studies	Honors Civics and Geography		Honors Economics and Personal Finance	Honors U.S. History or IB History HL 1	Honors World Hist. or IB History HL 2
Language	Honors Spanish 1		Honors Spanish 2	Honors Spanish 3 or IB Spanish 1	Honors Spanish 4 IB Spanish 2 Hon./CP French 1
Career Pathway	Communications (now called Liberal Arts)	Communicative Arts (0.5) Elements of Writing (0.5)	Any 2 credits of Communication or Liberal Arts courses (see pages 24-28)		Any remaining pathway credits needed
	STEM	Intro. to Engineering Design	Principles of Engineering	Engineering Design & Development or IB Design Tech	
Other requirements	PE (0.5) Health (0.5)		Driver Ed & College Prep (0.5) PE 2 (0.5)	Theory of Knowledge (1 credit)	
Maximum # of credits per year	8		8	8	7 or 7.5 Choice of year-long or semester-long study hall

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