
**William Penn
High School**

713 E Basin Road
New Castle, DE 19720

302.323.2800

Colonialschooldistrict.org/schools/william penn

**William Penn High School
College Academies:**

STEM College Academy

Business College Academy

*Humanities College
Academy*

College & Career Ready

By the time our students graduate from William Penn High School, they will have the competitive edge over other Delaware high school students to enroll in post-secondary institutions, obtain scholarships, and have licensed certificates to apply for a variety of jobs throughout Delaware and the nation. The staff at William Penn High School is dedicated to providing the best opportunities for our children. The result – our students will lead our nation and improve our future. We believe that William Penn graduates are today's leaders and tomorrow's innovators.

WVP

COLONIALS

Colonial School District; New Castle, Delaware; colonialschooldistrict.org

Course Catalogue

2017 – 2018

Brian M. Erskine, Ed.D.
Principal



Table of Contents

Graduation Requirements.....	4
Minimum State Graduation Requirements	4
Senior Project.....	4
Grade Level Advisory and PSAT/SAT Prep.....	5
Major classes vs. Electives.....	5
Post-Secondary Expectations	5
Scholarship Information.....	6
Dual Enrollment & Early College.....	6
Tech Prep Articulation.....	7
Rethinking High School.....	8
Degree Programs (Majors)	8
List of Majors within each College	8
College Descriptions.....	9
Student Schedule	9
Course Levels	10
College Preparatory Courses (CP)	10
Honors Courses (H)	10
Advanced Placement Courses (AP)	10
Promotion Guidelines	11
Program of Studies for Majors	11
Degree Program of Studies – Course Recommendations.....	12
AGRICULTURE	13
AGRICULTURE (Pathways).....	14
ARCHITECTURE	15
CONSTRUCTION	16
ENGINEERING.....	17
ALLIED HEALTH	18
COMPUTER SCIENCE.....	19
MATHEMATICS.....	20

MANUFACTURING.....	21
SCIENCE.....	22
AIR FORCE JR ROTC:.....	23
BUSINESS ADMINSTRATION	24
CULINARY ARTS.....	25
FINANCIAL SERVICES.....	26
MARKETING.....	27
BEHAVIORAL SCIENCE.....	28
EDUCATION (Teacher Academy).....	29
INTERNATIONAL STUDIES.....	30
LEGAL STUDIES.....	31
COMMUNICATIONS (Media and Graphic Design, Journalism)	32
VISUAL & PERFORMING ARTS.....	33
VISUAL & PERFORMING ARTS (Pathways).....	34
ONLINE COURSES OFFERED AT WILLIAM PENN INNOVATION LAB	35
JOBS FOR DELAWARE GRADUATES.....	36
Communities In School (CIS) at WPHS.....	37
Academic Student Programs.....	38

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THE COLONIAL SCHOOL DISTRICT IS AN EQUAL OPPORTUNITY EMPLOYER

Updated: January 2017



Graduation Requirements

Incoming freshman will select a “major” as part of their enrollment process to William Penn High School. Students are encouraged to work with their parents, teachers and guidance counselors to select the best major that prepares them for college and career. Make sure your choices are consistent with your abilities and career plans. The state of Delaware requires all students complete a minimum of 24 credits. However, to ensure our students are college and career ready, Colonial School District has raised the bar in both rigor and academic requirements for each major. Degree-program specifics are located on the following pages for each major. Once a student completes their specific program of study, diplomas and high school transcripts will display the students major and concentration.

Minimum State Graduation Requirements

English	4 credits
Mathematics	4 credits
Social Studies	3 credits
Science	3 credits
World Languages	2 credits
Physical Education	1 credit
Health Education	0.5 credit
Electives	3.5 credits
Career Pathway	3.0 credits

Total	24 credits
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Further information about the increased rigor of William Penn High School’s degree program can be found in the “Restructure” section of this course catalog. In short, our program is going from career pathways to degree programs, all within career clusters – connecting all academic classes to college and career skills.

Senior Project

A *senior legacy project* is embedded into their senior year of high school in the Colonial School District. After receiving approval for a project (completed during the students spring semester, junior year and approved by a Senior Project panel), students are expected to complete all Senior Project components by the spring semester of their senior year. This project may include an internship with a local business, either on or off campus. Students and staff use a Project-based learning (PBL) approach to complete this task. Each student is asked to select a four-person advisory board – three WPHS staff and one local business or professional person. This is done primarily through the English Department.

Grade Level Advisory and PSAT/SAT Prep

Each year, William Penn High School students are assigned an advisor (period 9). This class meets approximately every other week. Time is dedicated to academic protocols and expectations, social education, soft-skills, and building logistics that would otherwise cut into core class instruction. Advisory class gives every student a “go-to” staff member to ask questions, seek guidance, or simply share personal stories. Academic success is often based on the strength of the student’s motivation and preparation for school. Advisory class allows students and teachers to connect and solidify the foundation of student success. Additional time is spent on SAT/PSAT preparation.

Major classes vs. Electives

In order to satisfy degree program requirements, students will take a variety of classes that are connected to their “major”. There will be flexibility in the choice of classes based on the student’s choice of concentration. William Penn students will also have opportunities to take “elective” courses. These courses enhance the student experience, but are not necessarily related to the student’s major. We encourage our students to take a full schedule, each year. This allows our students to become involved in a variety of different experiences and improves their chance for a better post-secondary and/or career opportunity.



Post-Secondary Expectations

Colonial School District expects that all students apply to post-secondary education of some sort. Those that pursue a college or university should plan accordingly with their guidance counselor throughout their experience at William Penn High School.

Every post-secondary school is different. Some colleges are much more difficult to gain admission to than others. As a general rule, you will want to be in the top 50% of your class at a minimum. If you are interested in Ivy League and/or some of the more Elite and Highly Selective schools, the closer you can get to #1 in your class, the better. The Elite colleges want to see the top 2-5% of the class, whereas the more traditional, state universities will accept students ranging from the top 10% to 50% depending on other factors that are discussed below. They will examine the student’s grade point average (GPA) and class rank. They will also expect to see a minimum of three years of a foreign language. Most schools will also examine an applicant’s SAT score.

A college admission is getting more competitive every year. When asking the question: *What Do Colleges Look For?*, do not just assume that it’s all about your grades. The more prestigious the college you are applying to, the more in-depth they will go before granting admission. They are looking for the students that challenged themselves in high school by taking Honors and/or Advanced Placement courses as opposed to lower level classes. Course rigor is important in demonstrating to your prospective college that you are capable of handling college level work. Those students who earning a high GPA, but didn’t take any challenging courses in high school run the risk of being denied admission based on their weak course selection.

Again, many colleges are moving to a more holistic approach to evaluating potential students so having strong involvement in extra-curricular activities is a major plus. In addition to a solid course background, great grades and test scores, being involved outside of the classroom shows good initiative and time management skills. Colleges want to see that well-rounded student, not just top grades and scores.

Being a member of a club or sports team is a great choice. But do your best to take it a step further. For instance, if you are a member of Student Council, consider running for an office such as Treasurer, Vice President or even President! The top colleges are looking for leaders, and what better way to show them that you are a leader than by holding office or running a club or activity. If sports is more your thing, strive to be named a team captain. This displays outstanding leadership and colleges love that when it's combined with a solid academic background.

Scholarship Information

The guidance department at William Penn High School understands that a good education can be the key to a personally and financially rewarding future. Expansion of our knowledge-based economy continues to increase the value of education. Students who build on their secondary education will be better prepared for the opportunities and challenges of the future. We also understand that college can be expensive for any family. That said, it's important that our families and students understand that these costs do not compare to the rewards and benefits that post-secondary education provides. Our department works hard at finding scholarship opportunities for each student that is serious about continuing their education. Our counselors will work with their students to help them choose a college, understand financial aid, and plan for the most important investments of their life – college education. A complete set of information can be found on the school's website:

For more information, go to the "school counseling" section of the WPHS website.

<http://www.colonialschooldistrict.org/schools/william penn/>

Dual Enrollment & Early College

William Penn High School students have the opportunity to enroll in college level courses, and receive college credit. Colonial School District has partnered with the University of Delaware, Wilmington University and Delaware Technical Community College to provide opportunities to accelerate learning. Primarily through our blended online learning program within our innovation lab, students who successfully complete these courses earn high school and college credit which can be presented to any post-secondary institution (pending their requirements and approval). Up to date information on fees, course offerings and protocols can be directed to our Distance Learning coordinator

Kevin.Wright@colonial.k12.de.us

Tech Prep Articulation

Tech Prep is a course alignment process between several local participating colleges and career & technical education courses. Several approved and articulated courses are offered at William Penn High School and are coordinated with college classes so that the same content and level of material is being taught at both places. Students must complete a three year sequential pathway, and earn a passing grade of 85% or higher. These students are eligible to receive college credit from the articulated college or university. Further information can be found at www.techprepdelaware.org. Local colleges that participate are University of Delaware, Delaware Technical & Community College, Wilmington University, Goldey-Beacom College, and Delaware State University.

The following majors are connected to this tech prep articulation:

Legal Studies, Communication, Architectural Design, Business Administration, Financial Services, Agriculture, and Computer Science.

Additional majors will be added in the near future once approved by Tech Prep Delaware and regional post-secondary institutions. Check with our guidance department for an updated list.



http://www.techprepdelaware.org/2016-2017_Individual%20School%20Articulations/2016-2017-Art_William_Penn.pdf



Rethinking High School

PREPARING OUR STUDENTS FOR COLLEGE AND CAREERS

William Penn High School is committed to helping our students understand, connect, and act on critical global issues by integrating 21st century skills and experiences through degree programs. Adhering to our district goal, **all students will become college and career ready by the time they graduate**. All incoming students will select a concentrated degree program.

William Penn High School has restructured into three college academies:
STEM, Business, and Humanities.

Each college academy will offer a variety of majors and concentrations. Students will select a course of study; and over four years, gain the necessary skills to either enter a college or begin a trade. Many of our degree programs will offer the opportunity to achieve a trade certificate, and all student transcripts and diplomas will include the student’s degree program as they prepare for admission to college. All classes will connect to the student’s major and will encompass project based learning using industry-standard equipment. All majors will include a senior project (working with local businesses) and will include opportunities for advanced placement courses. Many of our programs will articulate to local universities, giving our students the ability to earn college credits while at William Penn High School.

Degree Programs (Majors)

Once the school year begins, students will receive their recommended courses to complete their major in four years. They will work with our school counselor department to ensure that all of the student’s classes are connected to their major. By the student’s junior year, they will be able to determine their “concentration” and refine their focus. By graduation, students will complete their degree program and have had the opportunity to work with local business, apply for local college credits and trade certifications. Students will graduate with the necessary 21st century skills to become **college and career ready**.

List of Majors within each College

STEM COLLEGE ACADEMY	BUSINESS COLLEGE ACADEMY	HUMANITIES COLLEGE ACADEMY
Agriculture Allied Health Architecture Computer Science Construction Engineering Manufacturing Mathematics Science	Air Force Jr ROTC Business Administration Culinary Arts Financial Services Marketing	Behavioral Sciences Communications Education Legal Studies International Studies Visual & Performing Arts

College Descriptions

STEM COLLEGE ACADEMY	<p>In the 21st century, scientific and technological innovations have become increasingly important to our advancement in globalization. To succeed in this new information-based and highly technological society, William Penn High School is committed to student innovation by offering programs in engineering, manufacturing, agriculture, technology, physical and biological sciences, and mathematics.</p>
BUSINESS COLLEGE ACADEMY	<p>Current business owners want employees that can solve problems, be innovative, and have industry knowledge and skills that will allow their business to compete in a global market. Our College of Business is committed to being at the forefront of these current and evolving practices in order to nurture leadership potential. William Penn High School will offer a variety of degrees that reflect the realities of the current marketplace and organizations. We will educate students who will become leaders and make a difference in the world.</p>
HUMANITIES COLLEGE ACADEMY	<p>A common thread linking these degree programs are the contributions they have to understanding of human societies and human services. This college embraces a diversity of interests through the arts, humanities, and social services. William Penn High School will help students understand the past and its influence, question and resolve issues in the present, and shape a future committed to the common good.</p>

Student Schedule

William Penn High School offers eight credit hours per school year, during regular school hours. This gives all students 32 credit opportunities prior to graduation. This allows students to not only complete their selected program of study, but take additional credit hours to enhance their transcript and improve their high school experience, both inside and outside of their “college”.

William Penn High School operates on a “four classes per day” schedule, following an “A – B” schedule (four periods per day). Classes are generally 80-90 minutes each. This schedule allows for an increased academic opportunity, year-long learning experience, and increased instructional time. Again, we encourage our students to maximize the number of opportunities offered at school, both academic and extra-curricular.

Course Levels

College Preparatory Courses (CP)

College Preparatory courses are designed to provide a rigorous curriculum aligned with state standards and connected to the student's major. These classes prepare a student for a variety of post-secondary experiences including higher education and/or the workforce.

Honors Courses (H)

Instruction in honors courses differs from CP courses in terms of depth of content studied and the pace at which instruction is delivered. Honors courses are designed to challenge students who are considering applying to highly competitive colleges and universities. Students enrolled in these courses are expected to utilize independent learning and study skills, and complete additional projects presented by the instructor.

Advanced Placement Courses (AP)



Advanced Placement courses are designed to challenge students who demonstrate a consistent record of outstanding academic achievement. Rich course material, vibrant classroom discussions and demanding assignments help these students develop content mastery and critical thinking skills expected of college students.

The College Board (accredited organizer of AP curriculum and exams) audits all AP curriculum offered at William Penn High School. The College Board also develops and scores all AP examinations for each course. In addition to content, AP courses focus on preparation for these College Board AP Tests. Successful completion of the course and AP exam translates into college credits for our students. Further information about College Board can be found at www.collegeboard.org.

The Colonial School District shares the expense of AP exams; however, an agreement is drafted among the student, parent, and instructor at the beginning of each course to ensure a genuine commitment to the course and process. **William Penn offers a wide variety of AP courses:**

AP Studio Art	AP Calculus AB
AP English Language and Composition	AP Calculus BC
AP English Literature and Composition	AP Computer Science
AP Comparative Government & Politics	AP Statistics
AP Human Geography	AP Biology
AP Macroeconomics	AP Chemistry
AP Microeconomics	AP Environmental Science
AP Psychology	AP Physics 1
AP United States History	AP Physics 2
AP World History	AP Physics C: Mechanics
	AP Spanish Language & Culture
	AP French Language & Culture

** Additional AP Courses are offered through our online learning center (Florida Virtual School).*

Promotion Guidelines

Grade level promotion in high school is determined through the acquisition of credits. Students are scheduled into appropriate sequential courses based on their major, and based on their acquired credits from the previous year(s) AND the successful completion of certain classes. It is important to note that it is critical that students attempt to pass every class, as making up credits throughout the four years puts additional constraints on the success of completing a degree program.

To be considered in grade:

Grade	Minimum Credits	Must Include (at minimum)
10	6	1 credit English 1 credit Math 4 credits in additional classes
11	12	2 credits English 2 credits Math 8 credits in additional classes
12	18	3 credits English 3 credits Math 12 credits in additional classes

It is mandatory to pass English and Mathematics each year in order to be “promoted” to the next grade level. To participate in commencement exercises and graduate from William Penn High School, students must pass all courses required by the state of Delaware (page 4 of this course catalogue). In order to graduate with a “major”, students must pass all the required and recommended courses outlined by our program of study. The “major” will be displayed on the student’s diploma and high school transcript.

Program of Studies for Majors

William Penn High School offers 20 different majors, all within one of three different college academies: STEM, Business, or Humanities. Each major has both required courses and recommended courses (depending on a student’s concentration preference and choice of elective). Students are encouraged to work with their parents and guidance counselors to select the best path to graduation, preparing them for college and careers. Our program of study for each major includes four components:

1. Four year, sequential courses related to major, each with rigor and relevance to degree program using college and career standards
2. Alignment to secondary institutions (preparing students for college)
3. Opportunities for certifications and dual enrollment credits
4. Connections to careers through internships, technical skills assessments, and off-campus experiences related to degree program.

Degree Program of Studies – Course Recommendations

The following pages indicate the recommended courses for each degree program within our three college academies. These are recommendations. Students should consult parents, school counselors, and their advisor to ensure that graduation requirements are met, and that the transcripts reflect the child's pathway beyond high school graduation.

Course recommendations (for the following school year) are done in February and March of each school year. After approved by the students' counselor and advisor, recommendations are mailed home for parental input.

The intent is that each student has an individualized schedule that meets their needs for life beyond high school graduation.



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AGRICULTURE

The study of **Agriculture** at William Penn High School focuses on three fundamental areas: **plant science, animal science and environmental science**. Plant science applies the principles of agriculture, biology, and chemistry of plant life. Connecting to our environmental science program, students combine economics, policy and ecology in order to study ecosystems and natural resources. Our animal science program emphasizes animal nutrition, animal care and how animals interact with our food systems. Through a partnership with Delaware Greenways on Historic Penn Farm, students will practice this knowledge on a living farm, adjacent to school property. Agriculture student work directly with culinary and science students in our “farm to school to table” program. www.wppennfarm.net. Our environmental science program focuses on the interrelationships between humans and the natural world.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Introduction to Agriscience 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Chemistry 4. US History 5. AG course (Plant, Animal, or Env Sci) 6. Penn Farm 7. World Language 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. AG course (Plant, Animal or Env. Sci) 7. Elective 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics course 3. AG course (Plant, Animal, or Env Sci) 4. Penn Farm 5. Science course 6. Elective 7. Elective 8. Elective

Additional courses or electives that relate to this major:

Business Corporate Management II and III

Business Essentials, Marketing

Architectural Design courses

Culinary Arts courses



AGRICULTURE (Pathways)

Courses for each of our pathways:

Plant Science	Animal Science	Environmental Science
Introduction to Agriscience Plant Science I Plant Science II Plant Science III Penn Farm	Introduction to Agriscience Animal Science I Animal Science II Animal Science III Penn Farm	Introduction to Agriscience Natural Resources & Ecology Environmental Science Issues AP Environmental Science Penn Farm



ARCHITECTURE

State-of-the-art technology and learning experiences are at the heart of the *Architecture* major at William Penn High School. Project-based learning engages students in interactive learning and affords the opportunities to work on real-world, contemporary projects enjoyable to learners. All projects develop valuable skills in Science, Technology, Engineering, Art and Mathematics, and afford the opportunity for students to learn AutoCAD® and Revit software, used in current architectural firms. Concentrations include *Architecture*, *Interior Design*, and *Building Information Management*. These students are also eligible for the **Manufacturing Program** through DTCC, starting their Junior year.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Drafting and CAD Design 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Chemistry or Physics 4. US History 5. Engineering Principles 6. Architectural Design III 7. Art Design I 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Architectural Design II 7. Introduction to Engineering 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Calculus, Statistics or AP Math 3. STEM Elective 4. Architectural Design IV 5. Engineering Design & Development 6. Art Design II 7. Elective 8. Elective

Additional courses or electives that relate to this major:

- Networking Systems or Computer Science
- Media Design I and II
- Art Design courses
- Manufacturing courses at DTCC



Students are encouraged to participate in ACE Mentoring program.
 Certifications: RAWLU CAD Certification (AutoCAD)

CONSTRUCTION

The **Construction** major merges concepts of **skilled trades** and **management** where projects make connections between science, technology, engineering and math with real-world opportunities. An exciting, hands-on opportunity awaits students as they learn to create and analyze construction documents, and build scale and life-sized prototypes. Partnering with ABC in New Castle, DE, students follow the NCCER construction curriculum and will sit for trade certification exams, recognized by industry. These students are also eligible for the **Manufacturing Program** through DTCC, starting their Junior year.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Construction I 7. Elective 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. World Language 6. Construction III 7. Principals of Engineering or CAD II 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Construction II 7. Intro to Engineering or CAD I 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics course 3. Construction IV 4. Engineering Design or CAD III 5. Elective 6. Elective 7. Elective 8. Elective

Additional courses or electives that relate to this major:

- Business Essentials
- Architectural Design course
- Engineering courses
- Business & Corporate Management
- Manufacturing courses at DTCC
- Students are encouraged to participate in ACE Mentoring program.



ENGINEERING

The focus of **Engineering** is to expose students to engineering standards through the design process, research, and data analysis. Students are given the opportunity to develop these skills and understand engineering concepts through Project Lead Their Way (PLTW). The exploration of various technology systems and manufacturing processes shows students how engineers use math, science and technology to solve problems to benefit people. This program prepares learners for post-secondary learning in all engineering fields or entry-level related careers in engineering technology. These students are also eligible for the **Manufacturing Program** through DTCC, starting their Junior year.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Introduction to Engineering 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Chemistry 4. US History 5. World Language 6. Engineering Design & Development 7. AP Physics I 8. Architectural Design II
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Drafting & CAD Design I 7. Principles of Engineering 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. AP Mathematics course 3. Elective 4. Ind. Study in Engineering 5. Architectural Design III 6. AP Physics II 7. Elective 8. Elective

Additional courses or electives that relate to this major:

Networking Systems or Computer Science

After School: Science Olympiad

AP Science courses

Manufacturing courses at DTCC



It is expected that engineering students take at least one AP class in both Math and Science.

Students are encouraged to participate in *ACE Mentoring program*.

ALLIED HEALTH

Allied Health careers are in high demand. The **Allied Health** major is designed to be a springboard for students to develop the skills and behaviors necessary to enhance their knowledge and practice of general health and wellness. With a focus on Health Care Technician, students explore and prepare for the following medical fields: **Phlebotomy, EKG, Medical Laboratory; Exercise Science, and Pre-Med**. William Penn has developed a partnership with Christiana Care and UDEL – Med Lab program. Many opportunities exist in health services after graduation, including college, specialized medical technology training, and associated entry-level careers in the medical, health fitness and sports medicine field.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Introduction to Health Care Technician 7. Elective 8. World Language 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. World Language 4. US History 5. Chemistry 6. Clinical Laboratory Diagnostics 7. Anatomy & Physiology 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Essentials of Medical Diagnostic Careers 7. World Language 8. Elective 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Statistics 3. Diagnostics Services Technician (Phlebotomy and EKG) 4. AP Biology or Chemistry 5. World Language 6. Paramedical Science 7. Elective 8. Elective and/or Clinical

Additional courses or electives that relate to this major:

After School: Science Olympiad

Physics,

Exercise Science, Psychology, Sociology (semester courses)

Certification Program: Certified Medical Laboratory Assistant

(www.nhanow.com); EKG, Phlebotomy

Additional certification opportunities: EMT, EMR, Life Guard, Personal Trainer



COMPUTER SCIENCE

In today's world, technology is much more than desktop computers. With *SMART* phones, laptops, iPads and wireless networks, it is easy to see that this field is quickly growing and changing! Trained **Computer Science** (IT) professionals are needed to maintain these computers and networks, keeping all professionals and corporations connected in a global economy. Students are exposed to practical and conceptual basic networking, OSI and TCP/IP, layered networks, devices, schemes and network media. This program is geared towards a **Computer Engineering Technician** certification. Advanced students will participate in our **Cisco Certified Network Associate** (CCNA) Local Academy, and offers certificates in: **CCNA, A+ Preparation, and Network+ Preparation**, valuable for college or entry-level careers. Students will also have access to the Microsoft Academy curriculum.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Networking Systems I (I.T. Essentials) 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Chemistry or Physics 4. US History 5. Networking Systems III or AP Computer Science Principles 6. Media Design I 7. Elective 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Networking Systems II or Exploring Computer Science 7. Business Essentials 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Statistics or AP Mathematics course 3. Networking Systems IV 4. Media Design II 5. Elective 6. A.P. Computer Science 7. Ind Study (Colonial IT Department) 8. Elective

Additional courses or electives that relate to this major:

Business Corporate Management II and III
 Graphic Design courses
 Engineering courses



PennComputerScience

MATHEMATICS

The **Mathematics** major emphasizes core and advanced mathematical concepts and theories beyond simple Algebra, Geometry, and Statistics. This advanced academic program is designed to appeal to students that are strong in math and will attend post-secondary education with a STEM concentration. Career and college opportunities would include computer science & programing, finance & economics, cryptography, teaching, and research. Advance Placement courses include both AP Statistics and Calculus. Pre-Requisite: Successful completion of Integrated Math I in 8th grade (final grade of C or better).

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math II 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Exploring Computer Science 7. World Language 8. Electives 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Calculus or A.P. Calculus AB 3. Chemistry or Physics 4. US History 5. Networking Systems II 6. Engineering Design II 7. Statistics (AP or Honors) 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math III 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Networking Systems I 7. Introduction to Engineering 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. A.P. Calculus AB or BC 3. A.P. Statistics 4. Digital Media I 5. AP Science course 6. Networking Systems III 7. A.P. Computer Science 8. Elective

Additional courses or electives that relate to this major:

Drafting & CAD Design I
 Architectural Design II or III
 Media Design II
 Computer Science courses

It is expected that math majors take at minimum, one AP course in math and science.

MANUFACTURING

The **Advanced Manufacturing Logistics & Production** Technician program of study engages students in open-ended problem solving where they learn and apply manufacturing processes and use modern, industry-leading technology and software. The program prepares students for further education and careers in manufacturing and logistics. 11th and 12th grade students complete their manufacturing courses at Delaware Technical Community College. William Penn High School participates in two manufacturing pathways: **Manufacturing Logistics and Manufacturing Production**. Successful completion of this program equates to dual enrollment credits for a variety of technical and engineering programs at DTCC.

Recommended Program of Study

Grade 9 <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Engineering or Construction 7. World Language 8. Electives 	Grade 11 <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Chemistry or Physics 4. US History 5. Manufacturing Courses I and II @DTCC 6. (Double block of manufacturing) 7. Statistics (AP or Honors) 8. Elective
Grade 10 <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Engineering II or Construction II 7. Elective 8. World Language 	Grade 12 <ol style="list-style-type: none"> 1. English IV 2. AP Calculus or AP Statistics 3. Manufacturing Courses III and IV @DTCC 4. (Double Block of manufacturing) 5. Digital Media 6. AP Science course 7. Elective 8. Ind Study

Additional courses or electives that relate to this major:

William Penn Courses	DTCC Courses
Drafting & CAD Design I Architectural Design II or III Construction courses Media Design II Computer Science courses	Principles of Manufacturing Manufacturing Quality, Safety, and Practices Manufacturing Processes and Production Advanced Handling and Logistics Electrical Systems and Controls Fluid Power Electro-Mechanical Systems

SCIENCE

The **Science** major is designed for academically motivated and dedicated students who aspire to enter the rich arena of the biological, agricultural, environmental and natural sciences. Core courses in biology, chemistry, Earth sciences and physics are augmented by advanced placement courses and a wide variety of additional science courses (both traditional and online). Seniors engage in a capstone research project with a mentor to further develop their analytical skills and prepare them for the college experience or related entry-level career.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Introduction to Agriscience 7. World Language 8. Natural Resources & Ecology 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Chemistry (Honors or AP) 4. US History 5. Paramedical Science 6. AP Physics II 7. World Language 8. Environmental Science Issues
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Anatomy & Physiology 7. AP Physics I 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Statistics or AP Mathematics course 3. Elective 4. AP Biology or AP Chemistry 5. AP Environmental Science 6. Elective 7. Elective 8. Elective

Additional courses or electives that relate to this major:

Human Genetics & Forensics

Science Olympiad – required part of Seminar

AP Chemistry, AP Physics 1 and II

Plant & Animal Science courses

Environmental Science courses

Health Care Technician courses

AIR FORCE JR ROTC:

The *Air Force Junior ROTC Corps* program is designed to prepare high school students for responsible leadership roles while making them aware of their rights, responsibilities and privileges as American citizens. The curriculum will include strategies to help students improve communication skills, enhance social and ethical values, promote character development and physical fitness, and help develop an “appreciation of teamwork through instruction in drill and ceremonies.” The course prepares students for ROTC in college or military/civilian service. Concentrations will include **Leadership**, **Flight Command**, or **Aviation**. William Penn High School has developed a *Partners in Education* with Delaware State University that allows these students to gain actual flight experience to earn credits towards a pilot’s license.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Air Force Jr ROTC I 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Chemistry or Physics 4. US History 5. Air Force Jr ROTC III 6. Military History & Elective 7. World Language 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Air Force Jr ROTC II 7. World Religions & World Cultures 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics course 3. Elective 4. World History 5. Air Force Jr ROTC IV 6. Flight Command 7. Contemporary World Views 8. Elective

Additional courses or electives that relate to this major:

- Psychology, Sociology
- Criminal Justice
- Applied Legal Studies



BUSINESS ADMINISTRATION

This major provides students with an overview of management and principles related to **Business Administration**. Courses and working opportunities with local business will allow students to learn the management functions and challenges of planning, organization, directing and controlling a business. Students will explore aspects of human resources, marketing, finances, all while improving skills in digital communication and public speaking. This major will prepare students to enter a college of business or any entry-level business career.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Business Essentials 7. Elective 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. Business Corporate Management III 6. Marketing II 7. Elective 8. World Language
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Business Corporate Management II 7. Graphic Design I 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics course 3. Elective 4. World History 5. Applied Legal Studies 6. Elective 7. Elective 8. Elective

Additional courses or electives that relate to this major:

- Marketing III
- Accounting II or III
- World Views
- Journalism courses

Business Management students also participate in the operation & management of the William Penn HS School Store.

CULINARY ARTS

With the state’s only Farm to School program, our exciting *Culinary Arts* program explores hospitality and restaurant management services from around the world that can transform students’ passion for cuisine and turn creativity into careers. In our state-of-the-art educational restaurant-style kitchen, students will learn food & preparation skills, know how to operate a successful restaurant, and understand the importance of a healthy living style for all people. Our culinary arts programs will give students every opportunity to prepare for advanced culinary programs and/or a successful career in the high-demand food industry as a **Chef, Hotel and Restaurant Manager** or **Food and Nutrition Specialist**.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Fundamentals of Culinary Arts 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. Culinary & Hospitality Professional 6. Elective 7. Elective 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Advanced Food Production 7. Business Essentials 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics course 3. Marketing II 4. Culinary Professional II 5. Penn Farm 6. Elective 7. Ind Study (Penn Bistro) 8. Elective

Additional courses or electives that relate to this major:

- Marketing III
- Business Corporate Management II or III
- Introduction to Agriscience, Plant Science
- Graphic Design
- Environmental Science courses



Certifications: National Restaurant Association: Nutrition, Manage First, ProStart, and Serv Safe

FINANCIAL SERVICES

The **Financial Services** major provides students with authentic experiences through computerized accounting and banking to learn both personal and corporation finances. Students will learn the necessary financial skills to help run and operate a business, all while learning the professional skills of leadership and management. Concentrations include **Accounting**, **Banking** and **Insurance** to prepare graduates for a Business College or related entry-level financial services career. The student led “Penn Accounting” team manages all finances of Penn Bistro, Penn Publications, Penn Construction and Penn Farm.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Business Essentials 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. Accounting III 6. Elective 7. Elective 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Accounting II 7. Elective 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics course 3. Accounting IV 4. Applied Legal Studies 5. A.P. Economics 6. Elective 7. Elective 8. Elective

Additional courses or electives that relate to this major:

- Marketing II or III
- Business Corporate Management II or III
- Journalism
- Graphic Design



MARKETING

The **Marketing** major prepares students to perform functions and tasks related to selling and retailing. In-depth emphasis and concentration is focused on examining marketing communications, retail and sport/entertainment marketing products. Topics include the elements of economics, products and services, laws governing business in the U.S, ethical behavior, consumer and staff relationships, channel distribution and communications strategies. The program is designed to prepare students for a college major in marketing or employment in various sales, customer service, and/or first-line supervisory positions in wholesale, retail and service establishments.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Business Essentials 7. Journalism 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. Marketing III 6. World Language 7. Graphic Design I 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Marketing II 7. Business Corporate Management II 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics course 3. Elective 4. Applied Legal Studies 5. Graphic Design II 6. School Store 7. Elective 8. Elective

Additional courses or electives that relate to this major:

- Business Corporate Management II or III
- Journalism, Creative Writing
- Graphic Design II, III or Digital Media
- World Views, World Cultures, World Religions

Marketing students also participate in the marketing of the William Penn HS School Store.

BEHAVIORAL SCIENCE

The **Behavioral Science** major will increase your understanding of individual, group and societal behaviors by examining origins of current societal issues and strategies for improvement. Concentrations provide in-depth focus and connection among **Psychology, Sociology** and **Criminal Justice** and create a foundation for related post-secondary studies and entry-level careers.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics* 5. Physical Education/Health 6. Human Development 7. World Language or Elective 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. Psychology & Sociology 6. World Cultures/World Religions 7. Anatomy & Physiology 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Criminal Justice I and II 7. Elective 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Statistics 3. Forensics & Genetics 4. Contemporary World Views 5. World History (CP or AP) 6. A.P. Psychology 7. Elective 8. Elective

Additional courses or electives that relate to this major:

*Honors students will take *AP Human Geography* their freshman year, along with a semester of Civics and a semester elective.

- AP Human Geography
- Marketing II
- Paramedical Science

Online courses: Anthropology and Philosophy

EDUCATION (Teacher Academy)

The **Education** major is aimed at attracting and developing future teachers. Our program will focus on K – 8 educational programs, but will lay the foundation for teachers of all levels. The program takes a multi-faceted approach to examining and teaching education that includes unique field experiences (partnering with Colonial elementary schools) and membership in professional organizations. Coursework explores human learning and development, teaching methods and techniques, the history of education in United States, and current trends in the profession. Best practices are modeled in all aspects of the program, especially those aimed at high-needs students and students of diverse backgrounds. Students enrolled in this major discover teaching as a challenging and rewarding profession and build a foundation to continue post-secondary education studies.



Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Human Development 7. World Language 8. Elective 	<p>Grade 11</p> <p style="text-align: right;">PennTeacher Academy</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. Curriculum & Instruction 6. World Language 7. Elective 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Psychology & Sociology 7. Teaching as a Profession 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics class 3. World Language 4. Teacher Academy Practicum I & II 5. Elective 6. Elective 7. Ind Study (Colonial Schools) 8. Elective

Additional courses or electives that relate to this major:

AP Psychology, World Cultures, World Religions; Online courses: Anthropology, Philosophy

Extra content classes based on Education certification preference. Students will also have the opportunity to sit for the Praxis exam (nationally accepted towards teacher certification).

INTERNATIONAL STUDIES

In the *International Studies* program, students are concerned about major political, economic, social, and cultural issues that dominate the media and the international agenda. Students will explore various regions of the World; exploring languages, cultures and religions of the different people groups. Concentrations include *International Politics, Homeland Security, World History, Cultures, Religions and Geography, Economics, World Languages, and Global Studies*. Students study interdisciplinary concentrations which will prepare them for future studies at the university level. Careers in government, diplomacy, and humanitarian organizations value students with strong international studies backgrounds.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics* 5. Physical Education/Health 6. World Cultures & World Religions 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. World Language 6. Applied Legal Studies 7. Elective 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Military History & Sociology 7. Elective 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics class 3. A.P. Economics 4. World Language 5. World History (CP or AP) 6. Contemporary World Views 7. Elective 8. Elective

Additional courses or electives that relate to this major:

*Honors students will take *AP Human Geography* their freshman year, along with a semester of Civics and a semester elective.

Psychology (H or AP)

Jr ROTC

Computer Science

Criminal Justice

LEGAL STUDIES

Students majoring in *Legal Studies* acquire a precursory knowledge of the criminal justice system that will enable students to make responsible, informed, and well-reasoned decisions about legal actions, social, and economic implications related to law. This program focuses on application of the law in the areas of Civil Law, Constitutional Law, and Criminal Law using both significant historical and modern day cases. Forensics evidence is explored using current law enforcement techniques. This major is valuable to students who will study criminal justice in college and/or pursue a law-related career. Concentrations will include **Criminal Justice, Forensics, Pre-law, Paralegal Studies** and **Law Enforcement**.

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics or AP Geography 5. Physical Education/Health 6. Criminal Justice I and II 7. World Language or Elective 8. Freshman Seminar 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. World Language 6. Forensics & Genetics 7. Elective 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Psychology and Sociology 7. Elective 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics class 3. Military History & Elective 4. Applied Legal Studies 5. World History (CP or AP) 6. Contemporary World Views 7. Elective 8. Elective

Additional courses or electives that relate to this major:

Air Force Jr ROTC, World Views, World Cultures

Senior Seminar course for behavioral sciences and legal studies

1. Students will present an entry in the behavior science section of the Delaware State Science Fair;
2. Students will research and present a content analysis paper on a subject matter in the field of sociology;
3. Students will complete a comprehensive criminal justice focused paper on one specific area of crime covering the: history of the crime, statistical information related to the crime, successful and failed models used to address the crime, and the future of the crime
4. Case law research paper - Students will choose an area of law and create a comprehensive history and impact of legal decisions shaping the application of those laws in our country.

COMMUNICATIONS (Media and Graphic Design, Journalism)

This major is designed for students who are interested in combining both communication skills and creativity. **Communication** majors will be immersed in consumer driven activities using modern technology and software programs to design digital publications and address media needs and concerns. Concentrations will include **Journalism, Photography, Graphic Design & Publications, Film Production, and Digital Media (website & game design).**

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. Graphic Design I 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. Graphic or Media Design III 6. Journalism II 7. Elective 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Journalism 7. Graphic or Media Design II 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics class 3. Elective 4. Graphic or Media Design IV 5. World History 6. Elective 7. Ind Study (Penn Publications) 8. Elective

Additional courses or electives that relate to this major:

- Journalism
- Penn Publications
- Creative Writing
- Marketing
- Art Design (Visual and/or Commercial Design)
- Legal Studies courses
- Penn Publications, Penn Crier, Penn Quill, Spectrum
- Online courses: Sports & Entertainment Marketing

VISUAL & PERFORMING ARTS

Students majoring in *Visual and Performing Arts* (VPA) explore and develop their talents in fine arts, instrumental and vocal music, and theater. Seasonal in-house productions, stagecraft, fine art shows, musical and marching band performances take center stage under the guidance of our talented staff and trained professionals. Specialized coursework, individualized lessons, and collaborative experiences prepare students for launching their own artistic college experience and career. Course selection should be geared towards at least one of the following concentrations: **Fine Arts, Instrumental, Vocal and Theater.**

Recommended Program of Study

<p>Grade 9</p> <ol style="list-style-type: none"> 1. English I 2. Integrated Math I 3. Integrated Science I 4. Geography/Civics 5. Physical Education/Health 6. VPA Class 7. World Language 8. Elective 	<p>Grade 11</p> <ol style="list-style-type: none"> 1. English III 2. Integrated Math III 3. Science course 4. US History 5. VPA Class 6. Elective 7. Elective 8. Elective
<p>Grade 10</p> <ol style="list-style-type: none"> 1. English II 2. Integrated Math II 3. Biology 4. Economics 5. Physical Ed/Drivers Ed/ 10th Seminar 6. Elective 7. VPA Class 8. World Language 	<p>Grade 12</p> <ol style="list-style-type: none"> 1. English IV 2. Mathematics class 3. Elective 4. VPA Class 5. Elective 6. Elective 7. Elective 8. Elective

Additional courses or electives that relate to this major:

Note: Students must complete Voice Class (males) or Chorus (female) before Concert Choir

- VPA Classes – Art, Theater, Chorus, Instrumental (each class, levels 1, 2, 3, and 4)
- Theater Production
- Guitar, Percussion Ensemble
- Art Studio, Advanced Placement Courses
- Music Production courses

VISUAL & PERFORMING ARTS (Pathways)

Courses for each of our VPA programs

<p>Fine Art</p> <p>Art Design I Art Design II Art Design III Studio Art Portfolio/Independent Study Advanced Placement Studio Art: Design & Drawing</p> <p><i>After School:</i> Penn Players Stagecraft</p> 	<p>Theatre</p> <p>Introduction to Theatre (semester) Intermediate Theatre (semester) Theatre Production II Theatre Production III</p> <p><i>After School:</i> Penn Players</p> 
<p>Instrumental Music</p> <p>Fundamentals of Music Theory Concert Band Symphonic Band Steel Drums Guitar Independent Lessons Digital Music Production</p> <p><i>After School:</i> Marching Band Jazz Band Penn Players Pit Orchestra Steel Band Indoor Percussion Pep Band</p> 	<p>Vocal</p> <p>Fundamentals of Music Theory Fundamentals of Singing Chorus Concert Choir Select Ensemble Gospel Choir Digital Music Production Songwriting I & II (semester courses) Class Piano I & II (semester courses) Private Study/Independent Study</p> <p><i>After School:</i> Penn Players, Choirs</p>

ONLINE COURSES OFFERED AT WILLIAM PENN INNOVATION LAB

William Penn High School offers a wide variety of online courses. These courses supplement our 20 different degree programs, offering our students additional opportunities, all through personalized digital learning. Similar to current college experiences, our courses are blended between online curriculum (Florida Virtual School) and a William Penn teacher. These courses encourage freedom and flexibility and empower students to experience personalized learning beyond our own classroom walls. For further information, contact our distance learning coordinator:

Kevin.Wright@colonial.k12.de.us An updated online course catalogue (throughout the school year) will be available on our school's website.

CURRENT ONLINE COURSES

Content	Online Course
Mathematics	Calculus A.P. Calculus AB A.P. Calculus BC
Science	Physics I
Social Studies	A.P. Government Anthropology Philosophy
English	Gothic Literature
Vocational	Hospitality & Tourism Foundations of Programming (Python) Sports & Entertainment Marketing
World Language	Spanish I & II Spanish for Spanish Speakers French I & II Chinese I, II & III

For a full list of opportunities, go to <https://www.flvs.net/flex/courses>

JOBS FOR DELAWARE GRADUATES



The JDG program is designed to help students reach academic and career goals. The curriculum includes **seventeen** school-to-work transition competencies per year. JDG is an approved career pathway.

All JDG students are eligible for membership in the Delaware Career Association (DCA), a youth organization that enhances the classroom instruction with field trips, group activities, and state conferences. The four goals of the DCA are leadership development, citizenship, social awareness, and career preparation.

The JDG Specialist is available to assist JDG students in finding jobs in the career of their choice during the school year, in the summer, and for 12 months following graduation.

JDG GRADE 9

CIP: 97.010011

The JDG Grade 9 course includes: Study skills, personal grooming, goal plan, decision making, career path, positive attitude, coping with change, values clarification, image assessment, autobiography, group dynamics, conflict resolution, and life skills math.

JDG GRADE 10

CIP: 97.010012

The 10th grade JDG course includes: Problem solving, teamwork, goal setting, money management, workplace math, courtesy and respect, customer service, workplace diversity, career interests, entrepreneurship, leadership, insurance, and job application.

JDG GRADE 11

CIP: 97.010013

The 11th grade JDG course includes: Career vocabulary, resume, sources of jobs, telephone skills, listening skills, stress management, personal budgeting, occupational preferences, career manual, verbal presentations, critical thinking, constructive criticism, and professional ethics.

JDG GRADE 12

CIP: 97.010014

The 12th grade JDG course includes: Time management, letter of application, career attire, employment interview, job survival, performance evaluations, business etiquette, employee rights, pay and benefits, financial planning, career travel, letter of resignation, and career portfolio. Each senior will develop a Career Portfolio that includes a resume and references, sample job application, and commendations.

If approved by the school counselor, JDG may be the student's co-op class ONLY if JDG is the student's pathway. (JDG Co-op CIP: 97.010015)

In order to schedule the JDG class, students must meet enrollment criteria approved by the JDG Specialist and school counselor.



Communities In School (CIS) at WPHS

Ensuring student success is everyone's job: schools, parents, communities.

In over 200 communities across 27 states, we work closely with schools, social services, businesses and thousands of volunteers to get young people the things they need to learn and grow: mentors and tutors, after-school help, family services to stabilize the home. Without these basic supports, kids in need or at-risk are far less likely to succeed and grow into productive adults.

Getting kids what they need – when they need it

Children are individuals with very individualized needs. Our school-site coordinators respond quickly, on a case-by-case basis to get kids what they need — when they need it. Help can be as simple as providing eyeglasses to a child in need or as intensive as after-school tutoring; it all depends on the child.

Proven, Evidence-based Strategy

Communities In Schools: the only dropout prevention program in the nation proven to increase graduation rates.

Recent third-party findings confirm: Of the many organizations working to improve student outcomes, Communities In Schools, through coordination of services, is proven to be more effective, and results in higher graduation rates, and higher percentages of students reaching proficiency in math and reading.

For more information about William Penn's CIS program, call the school directly and ask for the Community In Schools office.

Academic Student Programs

In order to connect classroom learning to real-world applications, William Penn High School offers several on-campus working opportunities. Students are encouraged, and given time, to use these work environments to count towards their senior project and internship, connecting classroom studies to real life problem solving activities.

	<p>William Penn High School signed a “Partners in Education” agreement with Delaware Greenways, a non-profit agency that works with the state on healthy living styles and open space. They were awarded the contract to operate and manage Penn Farms, located adjacent to William Penn High School. Through the City of New Castle Board of Trustees, we have enhanced our Agriculture and Landscaping Design program to include activities on the Penn Farm campus. Students work with local farmers and complete plant and soil projects on the land. William Penn students also design, create, and sustain Penn Gardens – available and open to the public. www.pennfarm.info</p>
	<p>The Penn Accounting firm fiscally manages all cash accounts here at William Penn High School. These students collaborate with each program’s coordinator in order to collect and manage funds, journalize transactions, prepare and analyze reports, and allocate funds as necessary.</p>
	<p>Our Penn Tech Design company uses state of the art software and technical skills to design and test all operational systems here at William Penn High School. Our Architectural teams present layout of any and all structures, while our Engineering team designs any and all structural systems.</p>
	<p>Probably one of our most exciting businesses, Penn Bistro is open to the public and staff for breakfast, lunch, and to-go meals on Wednesdays, Thursdays, and Fridays. The top chef program also caters local events and works directly with our Penn Farm team to enhance our farm to school program. www.pennbistro.net</p>
	<p>If you need something designed and built, then look no further. Penn Construction has the ability to design and construct a general product – small or large. These students go to local job sites through our Educational partner – ABC Delaware Chapter. Our students use the knowledge gained from classrooms and apply to actual jobs throughout New Castle County.</p>



Penn Publications brings together students from a variety of majors: Graphic Design, Media Design, Journalism, Yearbook, Art, and Newspaper. Students work together to design layouts and publish final products. Penn Publications is open to the community to service anyone’s graphic design needs. These students apply writing, design, and layout skills to any job contracted from our district or public.



Business Professionals of America (BPA) is the leading CTSO (Career Technical Student Organization) for students pursuing careers in business management, office administration, information technology and other related career fields. The Workplace Skills Assessment Program (WSAP) prepares students to succeed and assesses real-world business skills and problem solving abilities in finance, management, IT and computer applications. It is BPA's showcase program and facilitates students demonstrating their career skills at regional, state and national conferences. Currently, it is William Penn High School’s most successful student organization at local competitions.






Distributive Education Clubs of American (DECA) prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management in high schools and colleges around the globe. DECA enhances the preparation for college and careers by providing co-curricular programs that integrate into classroom instruction, applying learning in the context of business, connecting to business and the community and promoting competition. William Penn High School members leverage their DECA experience to become academically prepared, community oriented, professionally responsible, experienced leaders.



Future Farmers of America (FFA) is a unique student group that works with DE Greenways and Penn Farm. Their mission was to prepare future generations for the challenges of feeding a growing population. They understand that agriculture is more than planting and harvesting-- it's a science, it's a business and it's an art. FFA continues to help the next generation rise up to meet those challenges by helping its members to develop their own unique talents and explore their interests in a broad range of career pathways.

So today, these William Penn High School students are still the Future Farmers of America. But, they are also the Future Biologists, Future Chemists, Future Veterinarians, Future Engineers and Future Entrepreneurs of America, too.

	<p>Family, Career and Community Leaders of America (FCCLA) is a student organization that encourages personal growth and leadership development through Family Consumer Science programs. At William Penn High School, we offer Early Childhood Education and Culinary Arts. In addition to gaining career skills, these students engage in activities that promote character development, improve self-esteem, and develop critical thinking.</p>
	<p>The Technology Student Association (TSA) fosters personal growth, leadership, and opportunities in technology, innovation, design, and engineering. Members apply and integrate science, technology, engineering and mathematics concepts through co-curricular activities, competitive events and related programs.</p>
	<p>The Health Occupations Students of America (HOSA) is our Allied Health student organization to complement our Medical Laboratory Technician degree program. The mission of HOSA is to enhance the delivery of compassionate, quality health care by providing opportunities for knowledge, skill and leadership development of all health science education students, therefore, helping the student meet the needs of the health care community.</p>

For complete and updated information about William Penn High School, please visit our website at <http://www.colonialschooldistrict.org/schools/william penn/>

WPHS Facebook: <https://www.facebook.com/william penn high school>

For Colonial School District information, please visit: <http://www.colonialschooldistrict.org/>

William Penn High School
713 E. Basin Road
New Castle, DE 19720
302.323.2800

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