Courses and Programs of Study

HIGH SCHOOL
(GRADES 9-12)

Fall 2019
PGCPS COURSES AND PROGRAMS OF STUDY
HIGH SCHOOL

Courses listed in this publication make up the instructional program for the school system’s high schools. Only approved core curricula are available at all sites, and courses may not be offered during this school year if enrollment does not permit. Prerequisites are conditions that must be met in order to enroll in a course. Credits are used for scheduling and grade point average calculations.

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Fall 2019
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HOW TO USE THIS PUBLICATION

1. The courses listed make up the instructional program for the school system’s secondary schools. However, only approved core curricula are available at all sites, and courses may not be offered during this school year if enrollment does not permit.

2. Fees are not included in the description of courses.

3. Courses appear in order within alphabetized departments.

4. Course codes are used by the school system to schedule students electronically.

5. The 6th digit in the 6-digit Course Code may be interpreted as follows:
   1=first semester;
   2=second semester;
   3=full year;
   0=first or second semester (high school).

6. Credits are awarded for successful demonstration of a specified unit of study generally scheduled as below.
   1.0 = full year;
   0.5 = semester;
   .25 = quarter;
   0 = full year, semester, or quarter.

7. After required specified credits have been earned, all other credits are elective.

8. Prerequisites are conditions that must be met in order to enroll in a course.

9. Students may need assistance from parents, counselors, administrators, and teachers in interpreting information within the publication.
PLANNING A HIGH SCHOOL SCHEDULE

All students are expected to either be state-approved Career and Technology Education program completers or meet University System of Maryland entrance requirements, or both, upon graduating from high school. Careful and informed course planning is necessary to accomplish this goal:

1. Review credits you have earned to determine whether you are meeting graduation requirements.
2. Complete registration forms accurately.
3. Some courses have a limited enrollment based on capacities of the physical facilities of the school. Counselors will work with the teachers involved to register students in those classes.
4. Courses will be taught only if the enrollment is large enough to justify formation of a section. If a course must be canceled because of low enrollment, every effort will be made to notify students.
5. Because of the large number of courses offered only once, twice or three times, which result in scheduling conflicts, it is imperative for students to make alternate selections. When contact cannot be made, the alternate selection is the only aid available in resolving conflicts.

CHANGES IN SCHEDULE

It is very difficult to make satisfactory adjustments at the last moment. Course selections should be considered final. Requests for schedule changes will be honored only under extenuating circumstances. Only in unusual circumstances will schedule changes be made after the fourth week in either semester. Requests for schedule changes will be considered for the following reasons only:

I. Course prerequisites not met;
II. Seniors needing specific courses to meet Maryland graduation requirements;
III. To correct an obvious error;
IV. Failing or non-qualifying grades in summer school courses;
V. Authentic, documented health reasons; and
VI. Certain circumstances requiring administrative approval.

EDUCATIONAL REQUIREMENTS AND OPTIONS IN SECONDARY SCHOOLS

Administrative Procedure 6150 Educational Requirements and Options in Secondary Schools provides information on graduation requirements, core curriculum sequence, enrollment options, and college and career options at http://www1.pgcps.org/administrativeprocedures/.
Aerospace Engineering and Aviation Technology

Aerospace Engineering 1
Course Code:  991033
Prerequisites:  Algebra 2
Credits:  1.0 Elective
Aerospace Engineering is the study of the engineering discipline which develops new technologies for use in aviation, defense systems, and space exploration. The course explores the evolution of flight, fundamentals of flight, navigation and control, aerospace materials, propulsion, space travel, orbital mechanics, ergonomics, remotely operated systems and related careers. In addition the course presents alternative applications for aerospace engineering concepts.
Textbook(s):  Aerospace Engineering: From the Ground Up, ISBN 9781435447530

Aeronautics Engineering Applications
Course Code:  991103
Prerequisites:  Fundamentals of Aerospace and Aerospace Technology
Credits:  1.0 Elective
This project-based learning course is for students who have successfully completed Courses 1 and 2. Students will learn about systems such as flight control, remote-control vehicles and the virtual world. Students will learn to fly using flight simulators. They will work collaboratively to propose a shift from a VOR navigation system to a GPS system and determine the cost savings. In addition, students will develop rotor blades for helicopters and design and program an unmanned flying vehicle.
Textbook(s):  None

Astronautics Engineering Applications
Course Code:  991113
Prerequisites:  Fundamentals of Aerospace, Aerospace Technology, Aeronautics Engineering Application
Credits:  1.0 Elective
Students in this capstone course will focus on outer space and underwater applications. During the six projects, they will work collaboratively to design, build and test a laser communication system; develop a plan for space survivability in hostile environments; and utilize software to create a three-dimensional model of a satellite orbit and a team remote vehicle for underwater exploration. Depending on articulation agreements or state policy, students who successfully complete the course may be able to earn dual credit.
Textbook(s):  None

Aviation History and Development of Flight
Course Code:  991000
Prerequisites:  None
Credits:  0.5 Elective
History of Aviation and Development of Flight is an introductory course and customized textbook that focuses on the history of aviation and flight. It introduces students to how airplanes fly, how weather conditions affect on flight, the human body and flight, and flight navigation. The course is designed to complement materials taught in math, physics, and other science-related courses and is aligned with the National Science Education Standards, the Math Standards and Expectations, and International
Society for Technology in Education (ISTE) National Educational Technology Standards for students.

Textbook(s): *A Journey into Aviation History*, ISBN 0536333831

**Aerospace Practicum**

*Course Code: 800073*

**Prerequisites:** Successful completion of AEAT Requirements through grade 11, proficiency in Microsoft Office software applications

**Credits:** 1.0 Weighted

This course is the support for AEAT seniors to complete a research or design & development senior project. Areas of research include biology, chemistry, physics, engineering, and computer science. Requirements include Science Fair Participation, writing of a 5-chapter thesis-type paper, and participation in the Research Practicum (RP) Symposium. Steps of the RP process include topic selection, research design, implementation of research, statistical data analysis, interpretation of research findings, and presentation of research findings. Course topics are Project development, Proposal construction, Technical Writing, Statistics, Ethics, Use of Microsoft Excel, Microsoft Word, Microsoft PowerPoint, information processing, and scientific display of both backboard and poster.

Textbook(s): TBA

**Meteorology**

*Course Code: 991010*

**Prerequisites:** None

**Credits:** 0.5 Elective

This course explores how weather conditions affect flight. The course allow students to analyze Earth’s atmosphere, atmospheric motion, cloud types and how they form, and how the atmospheric layers impact flight. Students examine air masses and fronts, high-and low pressure systems, and terrain factors that affect weather.

Textbook(s): *The Aerospace Science: The Science of Flight* published by HQ AFOATS, Maxwell AFB

**AEAT: Aircraft Systems and Performance**

*Course Code: 991070*

**Prerequisites:** AEAT: Introduction to Flight

**Credits:** 0.5

In the Aircraft Systems and Performance course, students will take an in-depth look at the systems that make manned and unmanned aircraft work. Beginning with aircraft propulsion, students will learn about the different types of engines that produce thrust to propel an aircraft or UAS. They will go on to explore other key aircraft systems, including fuel, electrical, landing gear, and environmental. In order to fly an aircraft safely, students must also learn about the flight instruments associated with each system and how to identify and troubleshoot common problems. This unit also covers airplane flight manuals, the pilot’s operating handbook, and required aircraft documents. Finally, students will learn about the factors that affect aircraft performance and how to determine critical operating data for aircraft.

Textbook(s): TBA
AEAT: Introduction to Flight
Course Code: 991060
Prerequisites: Fundamentals of Aerospace Technology
Credits: 0.5
In the Introduction to Flight Course, students pursuing the pilot and UAS tracks will take a closer look at the aircraft they may one day operate. Students will begin with an exploration of the types of aircraft in use today before going on to learn how aircraft are made and how they fly. Students will understand how aircraft are categorized, be able to identify their parts, and learn about aircraft construction techniques and materials. They will gain an in-depth understanding of the forces of flight—lift, weight, thrust, and drag—including how to make key calculations. They will then touch on aircraft design, looking at stability, aircraft controls, and maneuvering flight. The course will conclude with a focus on career skills related to these topics.
Textbook(s): TBA

Aerospace Engineering and Aviation Technology Capstone
Course Code: 991053
Prerequisites: Enrollment in Aerospace Engineering and Aviation Technology
Credits: 1.0 Elective
Aerospace Engineering and Aviation Technology Capstone is a year long course required of all seniors in the AEAT program. Students will work with a mentor in the career field of their choice to develop a culminating project and produce a paper presenting their research, procedures, findings, and conclusions.
Textbook(s): online resources

Aerospace Technology
Course Code: 991023
Prerequisites: None
Credits: 1.0 Elective
Aerospace Technology is an exploration into flight, space travel, and supporting technologies. Students will use a hands-on approach to study concepts including the history of aviation, aerodynamics, aircraft components, flight conditions, airport and flight operations, space, rocketry, and the aviation and space industries. The course is competency-based and utilizes Design Processes and Software, 3D Printers, Wind Tunnels and Flight Simulators to prepare students for advanced courses.
Textbook(s): Journey of Flight, 2nd edition

Aviation Management
Course Code: 991043
Prerequisites: None
Credits: 1.0 Elective
Aviation Management is a holistic view of management requirements and techniques applicable to the aviation industry; problems, current issues and future trends related to aviation operations. The course includes management and organizational styles as applied to the industry, changes in the National Airspace System, managerial problems unique to the industry, and proposed acquisition of equipment under NEXGEN innovations.
Textbook(s): Air Transportation, A Management Perspective, ISBN 9781472436818
Fundamentals of Aerospace
Course Code:  867913
Prerequisites:  None
Credits:  1.0 Technology Education
Fundamentals of Aerospace is a project-based Engineering course, focusing on Aerospace and Aeronautical topics. This course utilizes hands-on activities to reinforce students’ grasp of STEM concepts critical to the understanding of the principles of engineering. This course will allow students to practice critical problem-solving skills through projects and investigations. The primary objective of this course is to provide students with adequate skill framework for success in the subsequent courses in the Aerospace program. Topics will include: Engineering Principles & Problem Solving; Engineering Design & CAD; Aerospace Engineering; and Aeronautical Engineering.
Textbook(s): TBA

Human Factors
Course Code:   991050
Prerequisites:   Aviation Safety
Credits:   0.5 Elective
The course of study includes demonstration of student mastery of the following topics: Basic Safety, Introduction to Construction Math, Introduction to Hand Tools, Introduction to Power Tools, and Introduction to Blueprints. Shows the parts of blueprint in detail including symbols, title block, and gridlines. Basic Rigging covers the slings, hardware hoists and hitches used in rigging operations, critical safety issues, and accepted rigging techniques and practices. Hands On Experiences provide hands on experiences in each of the trades areas Carpentry Masonry Construction Electricity and or HVAC so that students can gain a working knowledge of the construction industry.
Textbook(s): Himan Factors in Aviation, ISBN 9780123745187

Career and Technical Education Programs of Study
CONSTRUCTION AND DEVELOPMENT
CARPENTRY

Construction Core
Course Code:  871613
Prerequisites:  Construction Program Admission
Credits:  1.0 Completer
The course of study includes demonstration of student mastery of the following topics: Basic Safety, Introduction to Construction Math, Introduction to Hand Tools, Introduction to Power Tools, and Introduction to Blueprints. Shows the parts of blueprint in detail including symbols, title block, and gridlines. Basic Rigging covers the slings, hardware hoists, and hitches used in rigging operations, critical safety issues, and accepted rigging techniques and practices. Hands On Experiences provide hands on experiences in each of the trades areas Carpentry Masonry Construction Electricity and or HVAC so that students can gain a working knowledge of the construction industry.

Carpentry 1
Course Code:  871623
Prerequisites:  Construction Core
Credits:  1.0 Carpentry CTE
This course enables participants an opportunity to master a variety of construction skills including the sources and uses of various softwoods and hardwoods the grading systems for lumber and plywood and the composition and uses of various engineered sheet materials and laminated lumber products. The course also covers hand
...and power tools and the safe and proper operation and maintenance of tools basic framing including wall ceiling and roof and the installation of windows and exterior doors.

Textbook(s): *Carpentry Fundamentals (Level I)*, ISBN 9780133403800

**Carpentry 2**

Course Code: 871723  
Prerequisites: Carpentry 1  
Credits: 4.0 Carpentry CTE  
This course covers reading plans and evaluations, including techniques for reading and using blueprints, and specifications with an emphasis placed on drawings and information relevant to the carpentry trade, site layout, and the distance measurement and differential leveling. Introduction to concrete and reinforcing materials foundations and flatwork, including footings and edge forms used for on grade concrete slabs, application and construction methods for wall column slab and beam and stairs reinforcing handling, and placing concrete and manufactured forms and hardware systems.

Textbook(s): *Carpentry Framing and Finishing (Level II)*, NCCER, ISBN 9780133404654

**Multi-Craft Core**

Course Code: 871773  
Prerequisites: The course is for seniors only and by application only at High Point High  
Credit: 1.0  
The Multi-Craft Core Curriculum (MC3) course is designed by the North America’s Building Trades Unions (NABTU) as a pre-apprenticeship course to prepare students interested in pursuing an apprenticeship in a construction trade. The major topics of study include: Industry Awareness, Tools and Materials, Health and Safety, Blueprint Reading, Basic Math for Construction, Diversity in the Construction Industry, Green Construction, and Financial Responsibility.

Textbook(s): None

**CONSTRUCTION AND DEVELOPMENT**

**CONSTRUCTION DESIGN MANAGEMENT**

**Introduction to Construction Design and Management**

Course Code: 871513  
Prerequisites: Construction Program Admission  
Credits: 1.0 Completer  
This course provides an overview of the design and construction process as well as an introduction to the many career options within the field of construction. Students are introduced to core concepts in design and construction including construction methods and materials, fundamental elements of design, and innovative technologies including Green Construction and Design. Students are also introduced to design software as they complete basic design projects such as floor plans. In addition, students begin to develop a better understanding of the fields' interrelationships. Students will work in teams to develop each aspect of a construction project including developing a proposal site plans and construction management documents. Students use 3D computer software to complete projects.

Textbook(s): Online through Towson University

**Principles of Construction Design**

Course Code: 871523  
Prerequisites: Introduction to Construction Design and Management  
Credits: 1.0 Drafting/CAD CTE Completer  
The Principles of Construction Design course provides students with an in-depth understanding of the construction design process. Students complete a series of increasingly complex construction design projects in which they incorporate all aspects of the construction process, including zoning and regulation requirements; construction methods and materials, energy conservation; surveying; and project planning. Students will use
design software to generate site plans (topography) as well as detailed building plans. Portfolios are used to show the developmental stages of a design project. Students work in teams to develop each aspect of a construction project including developing a proposal, site plans, and construction management documents. Students will work in teams to develop each aspect of a construction project including developing a proposal site plans and construction management documents. Students use 3D computer software to complete projects.

Textbook(s): Online through Towson University

**Advanced Design & 3D Modeling**

**Course Code:** 871533  
**Prerequisites:** Principles of Construction Design  
**Credits:** 1.0 Drafting/CAD CTE Completer  

This is the third course in the Construction Design Program. Students work in teams to fully develop designs and a construction management plan for a pre-determined site. In this year-long project, students begin with the legal description and topography of the site and create a proposal for development. The construction design project must meet the client’s needs, budget, and the site characteristics. Students generate a series of plans to be included with the proposal for submission to an industry review panel for approval. Upon completion of the course, students demonstrate advanced design/drafting skills and be prepared for the AutoCAD or Revit certification exam.

Textbook(s): Online through Towson University

**Advanced Construction Management**

**Course Code:** 871543  
**Prerequisites:** Advanced Design and 3-D Modeling  
**Credits:** 1.0 Drafting/CAD CTE Completer  

This is the fourth and final course in the Construction Design Management Program. This course builds on an understanding of the construction design process to advanced knowledge and skill in construction management. In this course, students are required to work in teams to complete a project from existing plans. The year-long project will focus on building codes and standards, coordination of the construction process, estimating, planning and scheduling; and site management. Students will complete a portfolio of their design and construction management projects for review by an industry panel.

Textbook(s): Online through Towson University

**CONSTRUCTION AND DEVELOPMENT**

**ELECTRICAL**

**Construction Core**

**Course Code:** 871613  
**Prerequisites:** Construction Program Admission  
**Credits:** 1.0 Completer  

See previous description.

**Electrical 1**

**Course Code:** 871643  
**Prerequisites:** Construction Core  
**Credits:** 1.0 Electrical CTE  

The course emphasizes the National Electrical Code requirements. It covers a variety of electrical skill sets including electrical safety, hand bending fasteners and anchors, electrical theories, concepts used in Ohm’s law applied to DC series circuits, maintenance of electrical test equipment, raceways, boxes, and fittings, conductors, blueprints, and electrical prints, drawings, and symbols in schematics and wiring commercial, industrial, and residential. The course correlates to the modules of the National Center for Competency Testing (NCCT) national standards leading to industry certification.

Textbook(s): *Electrical Level I*, ISBN 9780133830057
Electrical 2
Course Code: 871733
Prerequisites: Electrical 1
Credits: 4.0 Electrical CTE
This course provides students additional opportunities to develop their electrical skill set. The course covers alternating current systems with the application of Ohm’s law, AD and DC motors, including the main parts circuits and connections, grounding and bonding, electrical systems, and NEC regulations mechanical hydraulic and electrical benders selecting and sizing boxes and fittings installing cable tray terminating and splicing conductors installing electric services applying circuit breakers fuses contactors and relays and handling and installing electric lighting. Students also apply their knowledge and skills by participating in the student built house project.

Textbook(s): Electrical Level 2, ISBN 9780133830729

CONSTRUCTION AND DEVELOPMENT
HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)

Construction Core
Course Code: 871613
Prerequisites: Construction Program Admission
Credits: 1.0 Completer
See previous description

HVAC 1
Course Code: 871663
Prerequisites: Construction Core
Credits: 1.0 Heating, Ventilation & AC CTE
This course provides students an opportunity to learn about the HVAC industry as it relates to residential and commercial building. It includes a demonstration of student mastery of the following topics: trade mathematics; tools of the trade; copper and plastic piping practices; soldering and brazing; ferrous metal piping practices; basic electricity; and covers an introduction to basic principles and fundamentals of heating and cooling.


HVAC 2
Course Code: 871743
Prerequisites: HVAC 1
Credits: 4.0 Heating, Ventilation & AC CTE
This course provides students the opportunity to further develop their skill set in HVAC. The course covers air distribution systems, air flow measurement ductwork and installation principles. In addition the course covers chimney vents and flues Students also learn about the principles of furnace venting and the proper methods for selecting and installing vent systems Additionally, students apply and install various types of fasteners gaskets seals and lubricants. The course covers alternating current and electrical safety basic electronics electric heating, and the operation and testing of electric furnaces and their components. Students also apply their knowledge and skills by participating in the student built house project.

Textbook(s): HVAC Level 2, ISBN 9780133404272
CONSTRUCTION AND DEVELOPMENT
INTERIOR DESIGN

Interior Design
Course Code:  685713
Prerequisites:  None
Credits:  1.0 Elective
This yearlong course includes units on the elements and principles of design, surface and window treatments, lighting, selecting and buying furniture, furniture styles, room arrangement of furniture, kitchens and other service areas, and accessories. In depth study of career opportunities in the field of interior design and the preparation of a design portfolio are essential components. The class may participate in selecting and decorating furnishings for the student-built house project.

Textbook(s): Homes: Today & Tomorrow, ISBN 9780078744211

CONSTRUCTION AND DEVELOPMENT
MASONRY

Construction Core
Course Code:  871613
Prerequisites:  Construction Program Admission
Credits:  1.0 Completer
See previous description

Masonry 1
Course Code:  871683
Prerequisites:  Construction Core
Credits:  1.0 Masonry CTE
This course covers the historic and current methods and procedures used in the masonry trade. Safety practices and requirements are emphasized including personal protective equipment, handling hazardous materials, and work safety. Students learn about the various tools and equipment used in the production of mortar, cutting of masonry units, and placing of masonry units and use mathematics to figure distances areas and volumes for masonry construction work. In addition, the class covers chemical and physical properties of cement sand and various types of admixtures as well as techniques for laying brick and block.


Masonry 2
Course Code:  871753
Prerequisites:  Masonry 1
Credits:  4.0 Masonry CTE
This course covers residential plans and drawings interpretation, understanding the organization and format of plans dimensioning and scaling and estimating material quantities. In addition, students learn about various residential construction techniques, grout and other types of reinforcement to strengthen and support masonry structures, accessories and attachments such as metal rods joint reinforcements, plates, anchors, fasteners, metal frames, and how to install them, advanced laying techniques, moisture control as well as quality control requirements for masonry construction. Students also apply their knowledge and skills by participating in the student built house project.

Textbook(s): Masonry Level 2, ISBN 9780133779707
CONSTRUCTION AND DEVELOPMENT

PLUMBING

Construction Core
Course Code: 871613
Prerequisites: Construction Program Admission
Credits: 1.0 Completer
See previous description

Plumbing 1
Course Code: 871703
Prerequisites: Construction Core
Credits: 1.0 Plumbing CTE
This course covers the history of plumbing, professional practices, career opportunities, basic safety, plumbing tools, basic math principles, plumbing specific math, and reviews blueprints and specific plumbing drawings. Students also learn about plastic copper cast iron and carbon steel pipe and fittings, as well as Drain Waste and Vent DWV systems and Water Distribution systems.
Textbook(s): Plumbing (Level I), ISBN 9781401848910

Plumbing 2
Course Code: 871763
Prerequisites: Plumbing 1 and Construction Core
Credits: 4.0 Plumbing CTE
This course covers intermediate math and the calculating of simple rolling and parallel offsets, reading commercial drawings by interpreting and using civil, architectural, structural, mechanical, plumbing, and electrical drawing, installing and testing Drain Waste Vent DWV piping, installing roof floor, and area drains, installing and testing water supply piping fixtures, valves, and faucets. Students also install water heaters, handle fuel gas systems and make repairs in accordance with safety guidelines. Students also apply their knowledge and skills by participating in the Student Built House project.
Textbook(s): Plumbing Level 2, ISBN 9780133148503

BUSINESS AND FINANCE

ACCOUNTING

Accounting Capstone
Course Code: 536003
Prerequisites: Advanced Accounting, Business Management & Finance Program, Grade 12
Credits: 1.0 Accounting CTE
The Capstone Project is a personally designed independently conducted activity which enables students to further knowledge/skill in one or more course topics of interest or beneficial in the Accounting pathway. The capstone project provides students with a forum for analyzing, synthesizing and implementing skills and knowledge. It offers an opportunity to think critically about a subject of profound interest to each student. While demonstrating a mastered content area, students apply their knowledge by creating a tangible product or service. Students are required to present the Capstone Project before their class and if possible business partners. Some skills include complex problem solving, evaluation, and synthesis of research, writing, communication, organization, accounting, budgeting, spread sheet presentation skills.
Advanced Accounting
Course Code: 535203
Prerequisites: Principles of Accounting and Finance, Business Management & Finance Program, Grade 12
Credits: 1.0 Accounting CTE

The Advanced Accounting course provides students with accounting knowledge that will prepare them for post-high school levels of education and entry-level positions in the workforce. Focus will be on accounting procedures necessary to address long- and short-term assets and investments, long- and short-term liabilities, inventory management and accounting ratios used in the decision-making process. A comprehensive study of the accounting procedures used in establishing corporations, declaring and paying dividends, the formation and dissolution of partnerships, distribution of net income and owners’ equity statements is included in this course. Career pathways for accounting will be examined and the use of accounting knowledge in a variety of career clusters is also explored. Awareness of ethical issues and application of ethical decision-making models will be reinforced throughout the course. Excel, Peachtree, and Quick Books will be used.


Principles of Accounting and Finance
Course Code: 553133
Prerequisites: Principles of Business Administrations and Management, Business Management & Finance Program Grade 11
Credits: 1.0 Business Management CTE

The course provides students with knowledge necessary to manage and maintain a company’s financial resources in daily operating decisions. A mastery of fundamental accounting concepts, skills and competencies is essential to making informed business decisions. Students will learn to apply generally accepted accounting principles to determine the value of assets, liabilities, and owner’s equity as they apply to various forms of business ownership. Students will prepare, interpret, and analyze financial statements using manual and computerized systems for service and merchandising businesses. Students will apply appropriate accounting principles to payroll and tax liabilities. Students will identify positions and career paths in the field of accounting. Students will examine the role of ethics and social responsibility in decision-making.


Principles of Business Administration and Management
Course Code: 553103
Prerequisites: Business Management and Finance Program, Grade 10
Credits: 1.0 Business Management CTE

This course provides students with knowledge of the types of businesses, as well as various applications, laws and theories of business. Along with a brief historical perspective, business terminology and principles will be emphasized. Students will learn to analyze the functions of business through evaluating, planning, organizing, and controlling. Students will develop the communication skills that will be necessary for success in the workplace and college. Students will be expected to think analytically, improve written and oral communication skills, enhance listening and questioning skills, learn and practice the art of conversation, improve public speaking skills, broaden their awareness of career options, practice using teamwork to make decisions and solve problems, and learn why people skills, communication skills and networking skills can help them succeed in their careers. Students will develop human resource skills including: diversity training, attitude, attendance, accountability, employer/employee rights, discrimination, availability of information as well as time management and setting priorities. Students will write grammatically correct correspondence and communicate orally. Students will understand the business world and be more prepared to meet their career goals and objectives.

Textbook(s): Principles of Business, ISBN 9781111426941
BUSINESS AND FINANCE
BUSINESS ADMINISTRATIVE SERVICES

Internship
Course Code:  500010, 500013
Prerequisites:  Successful completion of three credits of Business Programs of Study courses
Credits:  0.5 - 1.0 Elective
This course will provide students the opportunity to become completers in the Accounting, Business Management, Finance and Business Administrative Services strands. Students will spend a summer, semester or year in a department approved internship.
Textbook(s): None

Office Systems Management 1
Course Code:  553123
Prerequisites:  Principles of Business Administration and Management, Business Management and Finance Program Grade 11
Credits:  1.0 Business Administrative Services CTE
The Office Systems Management course provides students with a study of basic business practices, information systems and computer applications. Students develop managerial and technical skills for business support operations through applied learning. Problem-solving skill development is incorporated throughout the course to meet the recommendations made through the Maryland Skills for Success. Competencies include applying emerging technologies in order to complete appropriate office operations; using spreadsheets, desktop publishing and/or word processing software in order to create business documents and professional presentations; exhibiting appropriate interpersonal teamwork and leadership skills in order to succeed in the business world; demonstrating a knowledge of acceptable values and behaviors in order to become ethically responsible employees; and developing an appreciation of diversity in the workplace. Industry standard office equipment and the most current Microsoft Office software available will be used in this course.
Textbook(s): Office Systems Management 1, ISBN 13-9781269259002

Office Systems Management 2
Course Code:  553143
Prerequisites:  Office Systems Management 1, Business Management & Finance Program Grade 12
Credits:  1.0 Business Administrative Services CTE
This course provides students with advanced technology skills. Students will develop advanced skills using Microsoft's leading business desktop software and acquire the Microsoft Office Specialist credential in Word and Excel. Students will be expected to think analytically, manipulate information, and use the computer as a productivity tool through integrated application programs. Expertise in technology will contribute to students' future career mobility, advancement potential, compensation and job satisfaction.
Textbook(s): Office Systems Management ISBN 9781269601628
Dual Credit: Earning credit for INT 1330 Integrated Applications at Prince George’s Community College makes a student eligible for 553163 Office Systems Management 2 DE credit.
Dual Credit: Earning credit for INT 2140 Problem Solving with Spreadsheets at Prince George’s Community College makes a student eligible for 553153 Office Systems Management 1 DE credit.

Principles of Accounting and Finance
Course Code:  553133
Prerequisites:  Principles of Business Administration and Management, Business Management & Finance Program Grade 11
Credits:  1.0 Business Management CTE
See description on previous page.
Principles of Business Administration and Management

Course Code: 553103
Prerequisites: Grade 10 Business Management and Finance
Credits: 1.0 Business Management CTE
See description on previous page.

BUSINESS AND FINANCE
BUSINESS MANAGEMENT

Advanced Business Management

Course Code: 553113
Prerequisites: Principles of Business Administration and Management, Business Management & Finance Grade 11
Credits: 1.0 Business Management CTE

The Advanced Business Administration course provides students with the knowledge that will prepare them for post-high school levels of education and entry-level positions in the work force. It is followed by the Capstone course. Focus will be on the role of business in society; the changing nature of contemporary business practices; major management concepts, theories, and theorists, the processes of management (functional, operational, human relations), business law and ethics, and business communications. Career pathways will be examined and the use of business management knowledge in a variety of career clusters is also explored. Awareness of ethical issues and application of ethical decision-making models will be reinforced throughout the course. Students will understand the business world and be more prepared to meet their career goals and objectives. This course will help students to contribute to the improvement of economic citizenship and professional literacy through analysis of the business and economic environment.

Textbook(s): Management 6, ISBN 9871285091075

Business Management Capstone

Course Code: 553213
Prerequisites: Advanced Management, Business Management & Finance Program Grade 12
Credits: 1.0 Business Management CTE

The Capstone Project is a personally designed independently conducted activity which enables students to further knowledge/skill in one or more of the course topics of interest or beneficial in the Business Management pathway. The capstone project provides students with a forum for analyzing, synthesizing and implementing skills and knowledge. It offers an opportunity to think critically about a subject of profound interest to each student. While demonstrating a mastered content area, students apply their knowledge by creating a tangible product or service. Students are required to present the Capstone Project before their class and if possible business partners. Some skills include complex problem solving, evaluation, and synthesis of research, writing, communication, organization, time-management and presentation skills.

Textbook(s): Management 6, ISBN 9871285091075

Internship

Course Code: 500010, 500013
Prerequisites: Successful completion of three credits of Business Program courses
Credits: 0.5 - 1.0 Elective
See description on previous page.
Principles of Accounting and Finance
Course Code:  553133
Prerequisites:  Principles of Business Administrations and Management, Business Management & Finance Program Grade 11
Credits:  1.0 Business Management CTE
See description on previous page.

Principles of Business Administration and Management
Course Code:  553103
Prerequisites:  Principles of Business Administrations and Management, Business Management & Finance Program Grade 11
Credits:  1.0 Business Management CTE
See description on previous page.

BUSINESS AND FINANCE
FINANCE - NATIONAL ACADEMY FOUNDATION (NAF)

Applied Finance NAF
Course Code:  511160
Prerequisites:  Financial Services, Academy of Finance 11th Grade
Credits:  0.5 Finance-NAF CTE
This course delves into the financial concepts introduced in Principles of Finance. Students learn to identify the legal forms of business organization and continue to develop an understanding of profit. They learn about various financial analysis strategies and the methods by which businesses raise capital. Students also have the chance to explore, in depth, topics of high interest in the field of finance, and explore the types of careers that exist in finance today.

Textbook(s): Online National Academy Foundation curriculum and resources

Business Economics - NAF
Course Code:  540000
Prerequisites:  Applied Finance, Managerial Accounting, Academy of Finance Grade 12
Credits:  0.5 Finance-NAF CTE
Business Economics introduces students to the key concepts of economics as they pertain to business. This course discusses the American economy and the factors that influence the success of businesses and products. It describes forms of business ownership, discusses the relationship of labor and business, and provides a broad overview of the global economy. Students also examine careers in business, both as employees and as business owners.

Textbook(s): National Academy Foundation curriculum and resources online

Ethics in Business - NAF
Course Code:  511140
Prerequisites:  Business Economics; Global Studies or Finance-NAF CTE Grade 12
Credits:  0.5 Finance-NAF CTE
This course introduces the importance of ethics in business. Students focus on the significance of ethics to stakeholders, examine who bears responsibility for monitoring ethics, and explore ethical situations common in organizations. Students examine how ethics affects various business disciplines and consider the impact of organizational culture. Students also explore ethics as social responsibility, the evolution of ethics in international business, and how the free market and ethics can coexist.

Textbook(s): National Academy Foundation curriculum and resources online
Financial Planning - NAF
Course Code: 576600
Prerequisites: Principles of Finance, Academy of Finance 10th Grade
Credits: 0.5 Finance-NAF CTE
This one-semester course introduces students to the financial planning process and the components of a comprehensive financial plan. Students learn how to prepare a financial plan that includes saving, investing, borrowing, risk management (insurance), and retirement and estate planning.
Textbook(s): National Academy Foundation curriculum and resources online

Financial Services - NAF
Course Code: 510000
Prerequisites: Financial Planning, Academy of Finance or Global Studies Grade 12
Credits: 0.5 Finance-NAF CTE
This course gives students an overview of banks and other financial services companies. It introduces students to the origins of money and banking and examines the early history of banking in the United States. Students study the financial services industry and the types of companies it includes in depth. They learn about the services offered by such companies and analyze the ways these companies earn profits. Finally, students examine careers in financial services.
Textbook(s): National Academy Foundation curriculum and resources online

Internship
Course Code: 500010, 500013
Prerequisites: Successful completion of three credits of Business Program of Study courses
Credits: 0.5 - 1.0 Elective
See description on previous page.

Managerial Accounting - NAF
Course Code: 511130
Prerequisites: Principles of Accounting, Academy of Finance Grade 11
Credits: 0.5 Finance-NAF CTE
Managerial Accounting introduces the fundamentals of management accounting, including manufacturing and cost accounting, budgeting, accounting for managerial decision-making, and financial statement analysis. Students learn how to use accounting information for internal decision-making and planning and control. Regardless of the career path they choose, this course gives students the financial acumen necessary to make informed personal and business decisions.
Textbook(s): National Academy Foundation curriculum and resources online

NAF Entrepreneurship
Course Code: 511150
Prerequisites: Academy of Finance Program
Credits: 0.5 Elective
Entrepreneurship introduces students to the critical role entrepreneurs play in the national and global economy. Students learn the skills, attitudes, characteristics, and techniques necessary to become successful entrepreneurs. They explore starting a business and learn about the operational issues and financial risks that new businesses face. Students examine ethical issues and develop a framework for managing them. Finally, students identify the risks, returns, and other aspects of entrepreneurship as a potential career.
Textbook(s): National Academy Foundation curriculum and resources online
**Principles of Accounting - NAF**

- **Course Code:** 511000
- **Prerequisites:** Financial Planning, Academy of Finance Program Grade 11
- **Credits:** 0.5 Finance-NAF CTE

Principles of Accounting provides students with an understanding of the accounting process and how it facilitates decision making by providing data and information to internal and external stakeholders. Students learn that accounting is an integral part of all business activities. They learn how to apply technology to accounting by creating formulas and inputting data into spreadsheets. Students also examine career opportunities and the professional certifications and designations earned by individuals in the accounting profession.

Textbook(s): National Academy Foundation curriculum and resources online

Dual Credit: Earning credit for ACC 2001 Principles of Accounting I at Prince George’s Community College makes a student eligible for 511200 Principles of Accounting DE credit.

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**Principles of Finance - NAF**

- **Course Code:** 511110
- **Prerequisites:** Academy of Finance or Global Studies Grade 10
- **Credits:** 0.5 Finance-NAF CTE

This is the first course students take in the Academy of Finance and introduces students to the financial world. Students develop financial literacy as they learn about the function of finance in society. They study income and wealth; examine financial institutions; learn how businesses raise capital; and study key investment-related terms and concepts. They also research how innovations have changed the financial services field. Finally, students explore careers that exist in finance today.

Textbook(s): Online National Academy Foundation curriculum and resources

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**CONSUMER SERVICES, HOSPITALITY AND TOURISM**

**BARBERING**

**Barbering 1**

- **Course Code:** 884113
- **Prerequisites:** Admission to Barbering Program; ‘C’ or better in Biology; Purchase student equipment and tool kit
- **Credits:** 2.0 Barbering/Hairstyling CTE

The program prepares students to become licensed professional barber stylists. This course teaches basic to advanced hair cutting techniques for men and women; fundamentals and techniques of shaving, beard and mustache trimming, skin care, massage and various chemical services. Emphasis is placed on hygiene, safety, sanitation and state board rules and regulations. Related areas of instruction include human anatomy, physiology, chemistry, consumer relations and employability skills. Students are responsible for purchasing a student kit and uniform, pass all courses and take the Maryland State Board Barbering Examination prior to graduation.


**Barbering 2**

- **Course Code:** 884123
- **Prerequisites:** 11th Grade Barbering Student, Pass Barbering 1 with a ‘C’ or better; Meet clock hour requirements
- **Credits:** 2.0 Barbering/Hairstyling CTE

This course continues the practical application and clinical practices needed to become a licensed professional barber. Students continue to develop basic skills in hair cutting techniques for men and women, shaving and mustache trimming; skin care; massage and various chemical services.

Barbering 3
Course Code: 884133
Prerequisites: Barbering 2
Credits: 2.0 Barbering/Hairstyling CTE
This course provides students the opportunity to further refine and apply skills that support all aspects of the barbering industry. The instructional focus is on developing workplace readiness skills, obtaining employment and preparing for the Maryland State Board Barbering Exam prior to graduation.

Barbering Internship
Course Code: 884143
Prerequisites: Barbering 2; 800 clock hours in theory & practical training for Barbering
Credits: 1.0 Barbering/Hairstyling CTE
This work-based learning experience for barbering occurs after the completion of 800 clock hours for barbering. Students receive practical work experience in the barbering industry under the supervision of a licensed masterbarber.
Textbook(s): Milady Standard Barbering, ISBN 9781305100558

CONSUMER SERVICES, HOSPITALITY AND TOURISM COSMETOLOGY

Advanced Cosmetology
Course Code: 880303
Prerequisites: Pass Principles and Practices of Cosmetology with a ‘C’ or better; Meet clock hour requirements
Credits: 3.0 Cosmetology CTE
This course allows students to develop and practice more advanced techniques in the field of cosmetology. The instructional focus will be on developing workplace readiness skills, obtaining employment, and preparing for the state board exam practice. Students are expected to earn an additional 540 clock hours for a total of 1260 clock hours towards the required 1500 hours required by Maryland law.

Mastery of Cosmetology
Course Code: 880403
Prerequisites: Pass Advanced Cosmetology with a ‘C’ or better; Meet clock hour requirements
Credits: 3.0 Cosmetology CTE
This course provides students the opportunity to further refine and apply skills that support all aspects of the cosmetology industry. It assists in preparing students to obtain employment and advance in the field of cosmetology upon passing the State Board of Cosmetologists’ licensing examination. In this course students participate in up to 300 hours of a supervised work-based learning experience in a salon setting upon completing 1,000 hours of the program. These work-based learning experiences must be organized around a training plan that is cooperatively developed by the school and employer to add value to and extend a student’s career preparation. The student is jointly monitored by the salon senior cosmetologist and the teacher and must take the Maryland State Board of Cosmetologists’ Examination prior to graduation.
**Principles and Practice of Cosmetology 1**

Course Code: 880103  
Prerequisites: 11th Grade Cosmetology student; Must meet admission requirements; ‘C’ or better in Biology;  
Purchase a student equipment and tool kit.  
Credits: 2.0 Cosmetology CTE  

This course provides an introduction to the field of cosmetology. Students develop and practice basic skills in cosmetology; develop a broad understanding of the variety of career options available to a licensed cosmetologist and learn how science and math are fundamental aspects of the practice of cosmetology. Students are responsible for purchasing a student kit and uniform, pass all courses and take the Maryland State Board Cosmetology Examination prior to graduation. Students are expected to purchase a student kit and uniform, pass all courses, earn a minimum of 370 clock hours during this course. Learn how science and math are fundamental aspects of the practice of cosmetology.  


**Principles and Practice of Cosmetology 2**

Course Code: 880203  
Prerequisites: Principles and Practices of Cosmetology 1 with a ‘C’ or better;  
Meet clock hour requirements  
Credits: 2.0 Cosmetology CTE  

This course continues the practical application and clinical practices needed to become a cosmetologist. It provides further knowledge of the field of cosmetology. Students develop and practice basic hair styling skills using a variety of professional salon products and apply skills that support all aspects of the cosmetology industry. Students are expected to earn an additional 350 clock hours for a total of 720 hours by the end of year one.  


**CONSUMER SERVICES, HOSPITALITY AND TOURISM**

**AMERICAN CULINARY FEDERATION CULINARY ARTS**

**Culinary Arts Internship**

Course Code: 684753  
Prerequisites: Grade 12 Culinary Arts student;  
Professional Cooking or Baking;  
Concurrent enrollment in Professional Cooking 2 or Baking/Pastry 2  
Credits: 1.0 Culinary Arts CTE  

Students participating in an internship will be placed in a professional setting under the supervision of a chef or pastry chef to allow students to apply the skills and knowledge of professional cooking or baking acquired from their previous coursework. The internship includes a minimum of 135 hours, which may be paid or unpaid. This experience is directed by an agreement developed by the culinary arts instructor, the work based learning coordinator, the employer and the student. The agreement identifies the appropriate competencies, duties and tasks in academic, technical and work readiness areas that apply directly to students’ goals in professional cooking or baking. The work based learning coordinator and the instructor are responsible for monitoring students’ placements and documenting students’ progress.  


**Culinary Basics: Foundations of Professional Cooking**

Course Code: 684513  
Prerequisites: Grade 11 Culinary Arts student  
Credits: 2.0 Culinary Arts CTE  

This course is the introduction to the fundamental concepts and techniques in the profession of culinary arts. It provides hands-on clinical experience through school-based enterprises, giving the students the opportunity to
develop the technical skills required in future culinary and baking courses as well as the food service industry. Students are introduced to professional standards of the industry, safety and sanitation procedures, knife skills, including handling and care, cooking processes and procedures, product identification, vocabulary and terminology, industry equipment, recipe costing and quantity adjustments. Students participate in demonstrations and group exercises to supplement their development of technical skills and knowledge. Students are responsible for purchasing a student kit and uniform along with skid-resistant shoes and participate in demonstrations and group exercises to supplement their development of technical skills and knowledge.

Textbook(s): Culinary Essentials, ISBN 9780078883590

Dual Credit: Earning credit for CUL 1100 Introduction to Culinary Arts at Prince George's Community College makes a student eligible for 684633 Intro Culinary DE credit.

### Professional Baking/Pastry 1

**Course Code:** 684723  
**Prerequisites:** Grade 12 Culinary Arts student, Pass Culinary Basics: Foundations of Professional Cooking  
**Credits:** 2.0 Culinary Arts CTE

Students in this course explore the fundamental concepts and techniques in baking. They are instructed in the fundamentals of baking science, terminology, equipment, ingredients, weights and measurements, formula conversion and costing of recipes while maintaining the professional standards of the food service industry. Students will prepare a variety of baked goods including breads, rolls, cakes, pies, and cookies. Students participate in demonstrations, group exercises and school-based enterprises to supplement the students’ developmental of technical skills and knowledge. There is a lab fee for this course.

Textbook(s): On Baking, ISBN 9780132374569

### Professional Baking/Pastry 2

**Course Code:** 684743  
**Prerequisites:** Grade 12 Culinary Arts Student, Pass Professional Baking/Pastry 1  
**Credits:** 2.0 Culinary Arts CTE

This course provides further knowledge on the fundamental concepts and techniques of baking. Students are provided with additional hands-on opportunities to develop technical skills and knowledge. There is a lab fee for this course.

Textbook(s): On Baking, ISBN 9780132374569

### Professional Cooking 1

**Course Code:** 684713  
**Prerequisites:** Pass Culinary Basics: Foundations of Professional Cooking; Grade 12 Culinary Arts student  
**Credits:** 2.0 Culinary Arts CTE

This course continues to build on the foundation concepts and techniques from the Culinary Basics course. Students are instructed on the fundamental concepts, techniques, theories, ingredients, and methodologies involved in the preparation of basic menu items. Students rotate through food handling methods and techniques, portion control, costing, production, plating and garnishing of soups, salads, starches, vegetables, and entrees. Students participate in demonstrations, group exercises and school based enterprises to supplement the students’ development of technical skills and knowledge. There is a lab fee for this course.

Textbook(s): On Cooking, ISBN 9780137155767

### Professional Cooking 2

**Course Code:** 684733  
**Prerequisites:** Grade 12 Culinary Arts Student; Pass Professional Cooking 1  
**Credits:** 2.0 Culinary Arts CTE

This course provides further knowledge on the fundamental concepts and techniques of baking. Students are provided with additional hands-on opportunities to develop technical skills and knowledge. There is a lab fee
for this course.

Textbook(s): On Cooking, ISBN 9780137155767

CONSUMER SERVICES, HOSPITALITY AND TOURISM PROSTART

Food Service Professional 1 (ProStart 1)
Course Code: 684503
Prerequisites: Grade 11 Admission to ProStart program
Credits: 1.0 ProStart (Food & Beverage Management) CTE
This course provides an introduction to the food service and hospitality industry. Students develop and demonstrate skills in safe and sanitary food handling and preparation techniques. Students learn to prepare a variety of foods. They develop a broad understanding of the variety of career options available in the food service and hospitality industry, and have the opportunity to earn the ServSafe credential. Students can begin to accrue hours to meet the 400 hour work based learning experience requirement. One-hundred and fifty (150) of the 400 hours can be earned through in-class clinical experience. All students enrolled in this course must take the National Restaurant Association Educational Foundation end-of course exam. This course is for 11th graders only.

Textbook(s): Foundations of Restaurant Management & Culinary Arts: Level 1, ISBN 9780138019389

Food Service Professional 2 (ProStart 2)
Course Code: 684603
Prerequisites: Grade 12 ProStart Student; ‘C’ or better in ProStart 1
Credits: 1.0 ProStart (Food & Beverage Management) CTE
Students enrolled in this course continue to prepare a variety of foods. They create menus, demonstrate various types of restaurant service, apply purchasing techniques and demonstrate an understanding of inventory monitoring and control. Students have the opportunity for an authentic, mentored work-based learning experience and can continue to accrue hours to meet the 400 hour work based learning experience requirement. One-hundred and fifty (150) of the 400 hours can be earned through in-class clinical experience. All students enrolled in this course must take the National Restaurant Association Educational Foundation end-of course exam. This course is for 12th graders who have taken ProStart 1. Students enrolled in ProStart 2 must also be enrolled in ProStart Internship. This course is for 12th graders who have taken ProStart 1. Students enrolled in ProStart 2 must also be enrolled in ProStart Internship.

Textbook(s): Foundations of Restaurant Management & Culinary Arts: Level 2, ISBN 9780131380226

ProStart Internship
Course Code: 684703
Prerequisites: Grade 12 ProStart student; Concurrent enrollment in ProStart 2
teacher approval
Credits: 2.0 Completer
This course provides students the opportunity to further refine and apply skills that support all aspects of the hospitality industry. It assists in preparing students for employment and advancement in the field of hospitality and food and beverage management. Students who complete the industry mentored work-based learning experience and pass the ProStart 1 & 2 exams earn the National Certificate of Achievement from the National Restaurant Association Educational Foundation.

Textbook(s): Foundations of Restaurant Management & Culinary Arts: Level 2, ISBN 9780131380226
MANUFACTURING ENGINEERING AND TECHNOLOGY
PROJECT LEAD THE WAY (PLTW) ENGINEERING

Aerospace Engineering
Course Code: 867913
Prerequisites: Principles of Engineering; Completion of Algebra 2/Trig and Pre-Calculus recommended
Credits: 1.0 Engineering (Project Lead the Way) CTE

Aerospace Engineering is a specialization course that introduces students to the world of aeronautics, flight, and engineering. Students in this course will apply scientific and engineering concepts to design materials and processes that directly measure, repair, improve, and extend systems in different environments. Topics of study include the history of flight, aerodynamics and aerodynamics testing, flight systems, astronautics, space life sciences, aerospace materials, and systems engineering.

Textbook(s): Online PLTW curriculum and resources

Civil Engineering and Architecture
Course Code: 867713
Prerequisites: Principles of Engineering; Completion of Algebra 2/Trig and Pre-Calculus recommended
Credits: 1.0 Engineering (Project Lead the Way) CTE Weighted

This is a specialization course that provides an overview of the fields of civil engineering and architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. Students learn about the role of civil engineers and architects and the basic elements of project design and project planning.

Textbook(s): Online PLTW curriculum and resources

Digital Electronics
Course Code: 867613
Prerequisites: Principles of Engineering; Algebra 2/Trig and Pre-Calculus recommended
Credits: 1.0 Engineering (Project Lead the Way) CTE Weighted

Digital Electronics introduces students to applied digital logic, a key element of careers in engineering and engineering technology. This course explores the smart circuits found in watches, calculators, video games and computers.

Textbook(s): Online PLTW curriculum and resources

Engineering Design and Development
Course Code: 867813
Prerequisites: Students must have successfully completed all previous courses in the Project Lead the Way Engineering program. Engineering Design and Development is the final course in the program of study.
Credits: 1.0 Engineering (Project Lead the Way) CTE Weighted

This capstone course enables students to apply what they have learned in academic and pre-engineering courses as they complete challenging, self-directed projects. Students work in teams to design and build solutions to authentic engineering problems.

Textbook(s): Online PLTW curriculum and resources
Introduction to Engineering Design
Course Code: 867503
Prerequisites: Algebra 1 recommended
Credits: 1.0 Engineering (Project Lead the Way)
Introduction to Engineering Design emphasizes the development of a design. Students use computer software to produce, analyze and evaluate models of projects solutions. They study the design concepts of form and function, and then use state-of-the-art technology to translate conceptual design into reproducible products.
Textbook(s): Online PLTW curriculum and resources

Principles of Engineering
Course Code: 867403
Prerequisites: Introduction to Engineering Design; Algebra 1 and Geometry recommended
Credits: 1.0 Technology Education (Project Lead the Way) CTE
Principles of Engineering provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world engineering problems. Through theory and practical hands-on experiences, students address the emerging social and political consequences of technological change.
Textbook(s): Online PLTW curriculum and resources

ENVIRONMENTAL, AGRICULTURAL, & NATURAL RESOURCES
Curriculum for Agricultural Science Education (CASE)

Agricultural Research and Development Capstone
Course Code: 491053
Prerequisites: Animal and Plant Biotechnology
Credits: 1.0 Environmental Science Pioneers CTE
This course serves as the capstone and completer course for students that have completed three of the following CASE™ courses: Introduction to Agriculture, Food, and Natural Resources; Principles for Agricultural Science – Animal; and Animal and Plant Biotechnology. Instruction and continued inquiry-based projects are designed to integrate key learning and have students apply them to real-world career situations.
Textbook(s): Online CASE4Learning curriculum and resources

Animal and Plant Biotechnology
Course Code: 491043
Prerequisites: Principles of Agricultural Science
Credits: 1.0 Environmental Science Pioneers CTE
Animal and Plant Biotechnology is a specialization course in the CASE program of study. In this course, students will complete hands-on activities, projects, and problems designed to build content knowledge and technical skills in the field of biotechnology. In addition, students will understand specific connections between the Animal and Plant Biotechnology lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student.
Textbook(s): None

Introduction to Agricultural, Food, and Natural Resources
Course Code: 491003
Prerequisites: None
Credits: 1.0 Environmental Science Pioneers CTE
In this course, students will experience hands-on activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics.
Textbook(s): Online CASE4Learning curriculum and resources
**Principles of Agricultural Sciences - Animal**

**Course Code:** 491033  
**Prerequisites:** Introduction to Agriculture, Food, and Natural Resources  
**Credits:** 1.0 Environmental Science Pioneers CTE

The Principles of Agricultural Science – Animal course serves as one of the two principle courses within the CASE™ program sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in animal science, with hands-on projects and activities to recognize the characteristics of animal science and participate in projects and problems similar to those that animal science specialists face.

Textbook(s): None

**Principles of Agricultural Science - Plant**

**Course Code:** 491013  
**Prerequisites:** Introduction to Agriculture, Food, and Natural Resources  
**Credits:** 1.0 Elective

The Principles of Agricultural Science – Plant™ course is offered as an elective within the Curriculum for Agricultural Science Education, CASE™, program sequence. The course is structured to enable all students to have a variety of experiences that will provide an overview of the field of agricultural science with a foundation in plant science so that students may continue through the sequence of courses in the CASE™ program. Students will work in teams, exploring hands-on projects and activities, to learn the characteristics of plant science and work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers and producers, and plant research specialists face in their respective careers.

Textbook(s): Online CASE4Learning curriculum and resources

**ENVIRONMENTAL, AGRICULTURE, & NATURAL RESOURCES**  
**Curriculum for Agricultural Science Education (CASE) Natural Resources**

**Agricultural Research and Development Capstone**

**Course Code:** 491053  
**Prerequisites:** Enrolled in Environmental Science Issues - CTE Natural Resources and Ecology  
**Credits:** 1.0 Environmental Science Pioneers CTE

This course serves as the capstone and completer course for students that have completed three of the following CASE™ courses: Introduction to Agriculture, Food, and Natural Resources; Principles for Agricultural Science – Animal; and Animal and Plant Biotechnology. Instruction and continued inquiry-based projects are designed to integrate key learning and have students apply them to real-world career situations.

Textbook(s): None

**Environmental Science Issues - CTE**

**Course Code:** 490713  
**Prerequisites:** Natural Resources and Ecology  
**Credits:** 1.0 Environmental Science Pioneers CTE

Environmental Science Issues (ESI) – CTE is a specialization course in the CASE program of study. This course enables students to research, analyze, and propose sustainable solutions to environmental issues. In addition, students will explore connections between the Environmental Science Issues lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student.

Textbook(s): Online CASE4Learning curriculum and resources
**Introduction to Agriculture, Food, and Natural Resources**

*Course Code: 491003*

*Prerequisites: None*

*Credits: 1.0 Environmental Science Pioneers CTE*

In this course, students will experience hands-on activities, projects, and problems. Student experiences will involve the study of communication, the science of agriculture, plants, animals, natural resources, and agricultural mechanics.

Textbook(s): Online CASE4Learning curriculum and resources

**Natural Resources and Ecology**

*Course Code: 490703*

*Prerequisites: Introduction to Agriculture, Food, and Natural Resources*

*Credits: 1.0 Environmental Science Pioneers CTE*

The Natural Resources and Ecology (NRE) course is a foundation course within the CASE sequence of courses. The course provides students with a variety of experiences that in the fields of natural resources and ecology. Students will explore hands-on projects and activities while studying topics such as land use, water quality, stewardship, and environmental agencies. Study of the natural world including biomes, land, air, water, energy, use and care as well as a focus on issues on issues surrounding man’s interaction with the Earth will be addressed in this course. Students will select an ecosystem to study throughout the course and apply principles of natural resources and ecology from each unit of study to that ecosystem.

Textbook(s): Online CASE4Learning curriculum and resources

**ENVIRONMENTAL STUDIES**

**Environmental, Agricultural, and Natural Resources**

**Environmental and Natural Resource Research Ethics**

*Course Code: 976843*

*Prerequisites: Environmental Technologies and Techniques*

*Credits: 1.0 Environmental, Agricultural, & Natural Resources CTE*

The focus of this course is to develop critical thinking, communication skills and knowledge of ethics related to Environmental, Agricultural, and Natural Resources issues. Topics will include both plant and animal biomedical research; genetically engineered cells; and the use, distribution and availability of natural resources across populations. Students will engage in independent research on current environmental topics and communicate the findings and implications of their research to appropriate audiences. Students will explore the interplay of economic, social, political and cultural aspects of EANR problems and issues, and propose ethical, data-driven solutions.

Textbook(s): None

**GLOBAL STUDIES**

**INTERNATIONAL BUSINESS AND FINANCE - NAF**

**Business in a Global Economy**

*Course Code: 511100*

*Prerequisites: Enrollment in the Global Studies*

*Credits: 0.5 Elective*

Business in a Global Economy provides students with an understanding of how and why businesses choose to expand their operations into other countries. This course exposes students to the unique challenges facing firms doing business internationally and to the potential opportunities available to those businesses. Building on concepts introduced in Principles of Finance, Business in a Global Economy broadens students’ understanding of how businesses operate, grow, and thrive in our ever-changing world.

Textbook(s): Online National Academy Foundation curriculum and resources

27 Prince George’s County Public Schools High School Course Offerings • Fall 2019
Capstone - Business

Course Code: 599000
Prerequisites: Enrollment in the Global Studies
Credits: 0.5 Elective

The capstone course is an opportunity for students to demonstrate that they have achieved the goals for learning established by their career academy program. The course culminates with students completing research on their field of study, maintaining a portfolio of work, and presenting their learning’s to a panel of experts in their career academy fields of interest.

Textbook(s): None

Ethics in Business

Course Code: 511140
Prerequisites: Business Economics; Finance-NAF CTE or 11th grade student in Global Studies pathway
Credits: 0.5 Finance-NAF CTE

This course introduces the importance of ethics in business. Students focus on the significance of ethics to stakeholders, examine who bears responsibility for monitoring ethics, and explore ethical situations common in organizations. Students examine how ethics affects various business disciplines and consider the impact of organizational culture. Students also explore ethics as social responsibility, the evolution of ethics in international business, and how the free market and ethics can coexist.

Textbook(s): Online National Academy Foundation curriculum and resources

Financial Services - NAF

Course Code: 510000
Prerequisites: Financial Planning, Finance-NAF CTE or 11th grade student in Global Studies pathway
Credits: 0.5 Finance-NAF CTE

This course gives students an overview of banks and other financial services companies. It introduces students to the origins of money and banking and examines the early history of banking in the United States. Students study the financial services industry and the types of companies it includes in depth. They learn about the services offered by such companies and analyze the ways these companies earn profits. Finally, students examine careers in financial services.

Textbook(s): Online National Academy Foundation curriculum and resources

Geography

Course Code: 291500
Prerequisites: Enrollment in the Global Studies
Credits: 0.5 Elective

Geography is a course in the International Business and Finance Program

Textbook(s): TBA

Dual Credit: Earning credit for GEOG 101 Element of Geography I at Bowie State University makes a student eligible for 291510 Geography DE credit.

Global Economics

Course Code: 540010
Prerequisites: Enrollment in the Global Studies
Credits: 0.5 Elective

Global Economics introduces students to the key concepts of economics as they pertain to business. This course discusses the American economy and the factors that influence the success of businesses and products. It describes forms of business ownership, discusses the relationship of labor and business, and provides a broad overview of the global economy. Students also examine careers in business, both as employees and as business owners.

Textbook(s): Online
**Global Issues**

Course Code: 275200  
Prerequisites: Enrollment in the Global Studies  
Credits: 0.5 Elective  

This course addresses foreign policy of the United States as a world power after World War II to the present. Students engage in content using a history day project format.  

Textbook(s): None

**Principles of Finance - NAF**

Course Code: 511110  
Prerequisites: Academy of Finance or 10th grade student in Global Studies  
Credits: 0.5 Finance-NAF CTE  

This is the first course students take in the Academy of Finance and introduces students to the financial world. Students develop financial literacy as they learn about the function of finance in society. They study income and wealth; examine financial institutions; learn how businesses raise capital; and study key investment-related terms and concepts. They also research how innovations have changed the financial services field. Finally, students explore careers that exist in finance today.

Textbook(s): Online National Academy Foundation curriculum and resources

**GLOBAL STUDIES**

**INTERNATIONAL RELATIONS AND STUDIES**

**Geography**

Course Code: 291500  
Prerequisites: Enrollment in the Global Studies pathway  
Credits: 0.5 Elective  

Geography is a course in the International Business and Finance Program

Textbook(s): TBA

**Linguistics**

Course Code: 198100  
Prerequisites: Enrollment in the Global Studies  
Credits: 0.5 Elective  

This course is designed for the International Relations and the Global Studies Program. It provides an overview of the history of linguistics, how one acquires language, the nature of communication, and the anthropology of linguistics. Beginning with Historical Linguistics, students will learn how languages are related, how long a language takes to reappear, disappear, and change. The students will discuss how the language is acquired. During this course, the students will also study the significance of phonology, morphology, syntax, semantics, and how does one become bilingual. They will discuss the nature of and the different types of communication.

Textbook(s): A Concise Introduction to Linguistics, 9780205051816
**Philosophy**

**Course Code:** 290620  
**Prerequisites:** Enrollment in the Global Studies  
**Credits:** 0.5 Elective  
This critical reasoning/informal logic course is designed to teach students to evaluate logical arguments in daily life and conversation. Students will learn to recognize arguments, the difference between deductive and inductive reasoning, and to recognize and identify informal fallacies. A large part of the course will be devoted to the logic of induction, including the role it plays in probability theory, statistical methods of reasoning, and marking off the difference between science and superstition. Students will also learn the role of inductive logic and analogy in legal and moral reasoning, as well as in discovering causal connections.

Textbook(s): TBA

**Study Abroad Seminar**

**Course Code:** 198203  
**Prerequisite:** Study Abroad Seminar  
**Credits:** 1.0 Elective  
The Study Abroad experience for the Global Studies students will provide the necessary proficiency skills in the language for the students to be able to communicate in the target language. The students will be immersed in the language for six weeks living with a host family and visiting the language school. During the course the students will have the opportunity to learn, share and understand the perspectives and products of other cultures in order to enhance a global vision. The students will receive a final grade through a cumulative portfolio with activities, work samples, photos, a journal of the activities in the program, and attendance.

Textbook(s): None

**Study Abroad Seminar**

**Course Code:** 198200  
**Prerequisite:** Linguistics  
**Credits:** 0.5 Elective  
This course is designed for the International Relations/Global Studies program. During this course, the students will study the code of conduct, financial literacy, health and safety information in order for the students to conduct themselves in a responsible and mature manner at all times while they are overseas. This course will prepare the students to study abroad and the students must attend every class session and complete their research work. Students will study all the cultural norms and prepare for the necessary document such as: passport, visa, immunizations, etc. in order to be ready for the study abroad experience.

Textbook(s): Global Studies Study Abroad Booklet

**World Language Conversational**

**Course Code:** 198210  
**Prerequisite:** None  
**Credits:** 0.5 Elective  
This World Language course will provide listening and speaking opportunities for the students in the target language. This course will focus on communication skills including the three modes: interpersonal, interpretative, and presentational. The focus of this course will be for students to practice the target language through different oral activities in the World Languages lab.

Textbook(s): None
World Language Writing

Course Code: 198220  
Prerequisite: None  
Credits: 0.5 Elective

This World Language course will focus on writing in the target language. Students will write in ways that closely resemble the spoken language. During the class, students will develop the ability to write using more formal styles incorporating the Common Core Standards.

Textbook(s): None

ARTS, MEDIA, AND COMMUNICATION
INTERACTIVE MEDIA PRODUCTION

Interactive Media and Design Level 1

Course Code: 944163  
Prerequisites: Principles of Art, Media and Communication  
Credits: 1.0 Interactive Media Production CTE

In this course, students learning will focus on three pathway areas: Graphic Design, Digital Media, and Interactive Media. Emphasis will be placed on group project development, and individual portfolio development. Upon successful completion of this course, students will gain a foundational working knowledge of how to create and edit computer-generated images for both graphic and publication design applications; create cross-platform interactive media products incorporating text, graphics, animation, video, scripted interaction, and sound; and create a variety of applications using advanced interactive components. Students will prepare to take one or more of the Adobe Certified Associate Exams—Adobe Illustrator, Dreamweaver, InDesign, Photoshop, or Premiere Pro.

Textbook(s): None

Interactive Media and Design Level 2

Course Code: 944173  
Prerequisites: Interactive Media and Design Level I  
Credits: 1.0 Interactive Media Production CTE

Students will continue their learning of the three pathway areas. Emphasis will be placed on group project development, project management, and individual portfolio development. Students will update their IMP Project Portfolio with exemplars of their best work. Students will advance their knowledge and skills in multimedia design and production through project planning and product development. Students will demonstrate the use of multiple tools and modalities in the production process. Students will also take the Adobe Certified Associate Exams—Adobe Illustrator, Dreamweaver, InDesign, Photoshop, or Premiere Pro.

Textbook(s): None

Interactive Media Production Capstone

Course Code: 944183  
Prerequisites: Interactive Media and Design Levels I and II  
Credits: 1.0 Interactive Media Production CTE

This capstone course enables students to apply what they learned in their previous academic and Interactive Media Production (IMP) classes to complete a challenging, client-driven project. Students work in teams to design and create a solution to satisfy or fill a client’s need or want. Students are also expected to refine the products that comprise their portfolio to meet the specifications identified by the affiliate partner. Student teams make progress reports to their peers, meet regularly with their clients, and exchange constructive criticism and consultation. At the end of the course, teams present their projects to industry partners for feedback and
professional review. This course equips students with the independent study skills that they will need in post-secondary education and careers in Interactive Media Production.

Textbook(s): None

**Principles of Art, Media, and Communication**

**Course Code:** 750203  
**Prerequisites:** Interactive Media Production pathway student  
**Credits:** 1.0 Interactive Media Production CTE

This foundation course provides students an understanding of all aspects of the Arts, Media and Communication industry. Students will examine the opportunities and requirements of the major career pathways in this industry including Graphic Design, Digital Media, and Interactive Media.

Textbook(s): None

**GRAPHIC ARTS, MEDIA, AND COMMUNICATION**

**PrintED GRAPHIC COMMUNICATIONS**

**Advertising and Design**

**Course Code:** 944143  
**Prerequisites:** Introduction to Graphic Communications  
**Credits:** 1.0 Elective

Students demonstrate knowledge in 45 competencies in advertising and design. The competencies address copyright, ethics and intellectual property rights; creating a digital portfolio, typefaces, page layout, image capture, digital illustration and design principles, and corporate branding. Students demonstrate an understanding of additive and subtractive color, design a logo, create an illustration, and pitch an advertising concept.

Textbook(s): TBA

**Digital File Prep & Output**

**Course Code:** 944193  
**Prerequisites:** Introduction to Graphic Communications  
**Credits:** 1.0 Publishing & Graphics CTE

This course is one of the Advanced Graphic Communications courses. The course is comprised of 149 competencies that are procedures required in each step of file preparation and output. These include knowing and executing the steps needed to prepare a client file, from preflighting through platemaking for the production of a successful printing project, properly maintaining files as well as proper image resolution and color spaces, and providing a consistent color match and an efficient layout of pages on the press sheet for correction production to any output device.

Textbook(s): TBA

**Digital Production Printing**

**Course Code:** 944113  
**Prerequisites:** Introduction to Graphic Communications  
**Credits:** 1.0 Publishing & Graphics CTE

This course enables students to learn take an additional specialization course. In this course, students will master 36 competencies in digital production printing to operate any vendor’s digital press. Students will understand and apply the digital workflow concepts to print production. The competencies range from introductory skills such as describing the types of jobs that use a digital press to more advanced skills such as printing two and four color jobs, printing and finishing a perfect bound booklet and printing variable data print jobs.

Textbook(s): None
Introduction to Graphics
Course Code: 943903
Prerequisites: Enrollment in Publishing & Graphics Pathway
Credits: 2.0 Publishing & Graphics CTE

Introduction to Graphics Communications provides the continuation of an overview of the graphic communications industry and its major operations. The competencies include five Subject Areas: Digital Press; Substrates; Bindery, Finishing and Distribution; Math and Measurement; and Job Application and Interpersonal Skills. [NOTE: THIS IS THE FIRST COURSE IN THE PUBLISHING AND GRAPHICS CTE PATHWAY.]

Textbook(s): None

Offset Press Operations
Course Code: 944153
Prerequisites: Introduction to Graphic Communications
Credits: 1.0 Publishing & Graphics CTE

This course covers 42 competencies that ensure a sound knowledge of platemaking, ink, paper, and fountain solution used for offset lithography. Some competencies require students to identify press parts and basic operations procedures, while 20 of the competencies require students to demonstrate their ability to perform make-ready steps, print different types of one-and two-color jobs, evaluate and adjust print quality, color measurement, and perform clean-up functions.

Textbook(s): None

HEALTH AND BIOMEDICAL SCIENCES
PROJECT LEAD THE WAY (PLTW) - BIOMEDICAL SCIENCES

Biomedical Innovation
Course Code: 979813
Prerequisites: Principles of the Biomedical Sciences; Human Body Systems; Medical Interventions; Biomedical Sciences Program
Credits: 1.0 Biomedical Sciences CTE - Weighted

In this capstone course, student apply their knowledge and skills to answer questions to solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician’s office, or industry. Transcribed college credit is available to students, who receive a grade of 80% in three pathway courses and pass the end of course assessments administered by PLTW, at Stevenson University.

Textbook(s): Online PLTW curriculum and resources

Human Body Systems
Course Code: 979973
Prerequisites: Principles of the Biomedical Sciences; Biomedical Sciences Programs
Credits: 1.0 Biomedical Sciences CTE

Students examine the interactions of body systems as they explore the identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structure and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respirations. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. Transcribed college credit is available to students, who receive a grade of 80% in three pathway courses and pass the end of course assessments administered by PLTW, at Stevenson University.

Textbook(s): Online PLTW curriculum and resources
Medical Interventions
Course Code: 979803
Prerequisites: Principles of Biomedical Sciences, Human Body Systems Biomedical Science
Credits: 1.0 Biomedical Sciences CTE - Weighted

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a “How To” manual for maintaining overall health and homeostasis in the body as students explore how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventative measures are emphasized throughout the course as well as the important role scientific thinking and engineering design play in the development of interventions of the future. Transcripted college credit is available to students, who receive a grade of 80% in three pathway courses and pass the end of course assessments administered by PLTW, at Stevenson University.

Textbook(s): Online PLTW curriculum and resources

Principles of Biomedical Sciences PLTW
Course Code: 868103
Prerequisites: Biomedical Science; concurrent enrollment in Biology
Credits: 1.0 Biomedical Sciences CTE - Weighted

Students investigate the human body systems and various health conditions including heart diseases, sickle cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that may have prolonged the person’s life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. Transcripted college credit is available to students, who receive a grade of 80% in three pathway courses and pass the end of course assessments administered by PLTW, at Stevenson University.

Textbook(s): Online PLTW curriculum and resources

HEALTH AND BIOMEDICAL SCIENCES
HEALTH PROFESSIONS

Allied Health Internship
Course Code: 980033
Prerequisites: Foundations of Medical and Health Science; Structure and Functions of the Human Body; Medical Specialty course; and Health Professions Programs
Credits: 2.0 Health Professions CTE

Students who have completed the first three courses in the Academy of Health Professions pathway may enroll in this internship course. Students participating in the extended internship experience will participate in a clinical experience and/or secure an internship in a professional healthcare setting such as a hospital, physician’s office, or pharmacy. Students are required to develop a resume that reflects their interest and clinical experience to pursue a career in Health Care; have an agreement among the student, parent, teacher and worksite mentor which includes specific technical and academic outcomes for the student; participate in a school based seminar class at least once a week to share experiences; prepare a professional portfolio that aligns to the SkillsUSA portfolio requirements containing, but not limited to, an updated resume, school transcript, letters of reference, achievements and awards, community project participation and projects; complete a research paper and present it to a panel of industry representatives and be supervised by an instructor or work based learning agreement.

Textbook(s): None
Foundations of Medical and Health Science

Course Code: 979963
Prerequisites: Health Professions, Biology
Credits: 1.0 Health Professions CTE

This course is designed to provide students with an overview of the therapeutic, diagnostic, environmental and information systems of the healthcare industry. Students will prepare for a medical or health science career by developing a broad understanding of the cluster and pathways in the Health and Biosciences cluster. Students will learn about ethical and legal responsibilities, as well as the history and economics of healthcare. Students will engage in processes and procedures that are used in the delivery of essential healthcare services. As students learn to use medical terminology within a variety of medical and healthcare environments, they will develop the Skills for Success, academic, and technical skills necessary to function as health professionals. It is recommended that students have completed or be concurrently enrolled in Biology to understand the concepts of Anatomy and Physiology and Pathophysiology introduced in this course.

Textbook(s): Healthcare Science Technology ISBN 9780078780929

Clinical Medical Assistant

Course Code: 980013
Prerequisites: Foundations of Medicine and Health Sciences; Structure and Function of the Human Body; Health Professions Program
Credits: 2.0 Health Professions CTE

The Medical Assistant course covers general administrative tasks including office practices, patient relations, maintaining medical records, and billing. Students learn clinical duties such as taking and recording vital signs and medical histories, preparing patients for examination, drawing blood, and administering medications as directed by the physician.

Textbook(s): Comprehensive Medical Assisting, ISBN 9780133563979

Medical Science 1

Course Code: 979953
Prerequisites: Concurrent enrollment in Biology
Credits: 1.0 Health Professions Elective

This Medical Science I course will provide the beginning student with an overview of the health care field and an introduction to contemporary issues in global and domestic health. The entry level information that is covered serves as a solid foundation for all students in the Health Professions Program of Study, under the Academy of Health and Biosciences. Contents include health care industry and careers, public health, epidemiology, the human body, medical math and correlations to biotechnology.

Textbook(s): Physiology Introduction to Health Science Technology, ISBN 9780133481662

Certified Nursing Assistant

Course Code: 980023
Prerequisites: Foundations of Medical and Health Science; Structure and Functions of the Human Body; Health Professionals Program
Credits: 2.0 Health Professions CTE

Students are prepared for actual experience in the clinical setting with a focus on the specific knowledge, skills and abilities that relate to the specialized course. Students will accurately use medical terminology; effectively apply written, verbal and non-verbal communication skills; practice ethical and professional behavior and respect confidentiality; perform Healthcare Provider CPR and obtain certification from the American Heart Association; earn industry recognized credentials or certifications; incorporate various diagnostic and therapeutic technologies as they relate to patient care; demonstrate proficiency in clinical and medical settings; demonstrate knowledge of human growth and development in relation to patient care; and demonstrate proficiency in one
or more specialty areas. Students will complete the required clinical hours as set by the Maryland Board of Nursing (MBON) at a clinical site approved by the MBON; understand the role of a certified nursing assistant; practice infection control; demonstrate how to safely assist patients with mobility and positioning; effectively demonstrate patient hygiene techniques; demonstrate accurate data collection methods; demonstrate effective communication skills; understand the legal and ethical considerations of being a CNA; and demonstrate competencies in order to pass the written and practical Nursing Assistant Certification Exam.

Textbook(s): Nursing Assistant – A Foundation in Caregiving, ISBN 9781604250619

**Pharmacy Technician**

**Course Code:** 980003  
**Prerequisites:** Foundations of Medicine and Health Sciences; Health Services Program  
Structure and Function of the Human Body  
**Credits:** 2.0 Health Professions CTE

Students will study the use and side effects of the top medications used in the pharmaceutical industry within specific classifications. They will review drug trade names as well as generic names, drug classifications and routes of administration. They will be introduced to medication laws, standards, and regulations affecting pharmacy technicians. Quality assurance and quality control will be examined as well as professional behaviors needed to become a successful pharmacy technician. The in-depth role of a pharmacy technician, diversity and healthcare confidentiality will be explored in detail. Students participate in lab-based and clinical experiences that prepare them for employment.


**Structure and Functions of the Human Body**

**Course Code:** 979983  
**Prerequisites:** Biology; Concurrent enrollment in Chemistry; Health Professions Program  
**Credits:** 1.0 Health Professions CTE

Students in this course study the structure and functions of the human body, including cellular biology and histology. Systematic study involves homeostatic mechanisms of the integumentary, skeletal, muscular, circulatory, nervous systems and special senses. Students will investigate the body’s responses to the external environment, maintenance of homeostasis, electrical interactions, transport systems, and energy processes. Students will conduct laboratory investigations and fieldwork, use scientific methods during investigations to solve problems and make informed decisions. Students will learn the medical terminology related to body systems.

Textbook(s): Body Structure and Functions ISBN 9781133691655

**HUMAN RESOURCE SERVICES**  
**INFORMATION/COMMUNICATIONS TECHNOLOGY**

**Advanced Skill-Based Training for Geographic Information Systems and Remote Sensing**

**Course Code:** 997030  
**Prerequisites:** Skill-Based Training for Geographic Information Systems and Remote Sensing  
**Credits:** 0.5 Homeland Security/Information Communications Technology CTE

This course will continue to help students learn the skills required to work on and /or build a Geographic Information Systems/Remote Sensing Project. Students and teacher will follow a course of hands-on instruction to learn skills ranging from introductory digital mapping to image analysis. Through Course 1 and Course 2, students learned some of the basic skills necessary to GIS. In Course 3 students will learn to apply those skills. Students will learn to apply Spatial Analyst and 3D Analyst. The ArGIS Spatial Analyst extension allows students to examine the spatial relationships within a specific area as well as study site suitability. The ArGIS 3D Analyst extension allows students to gain a different perspective on their environment by modeling surfaces three dimensionally. Students will also learn methods of integrating external hardware in order to incorporate real time data from GIS units in order to accurately survey their community.

Textbook(s): Arc GIS Online Educational Resources, Big Ideas About Applying Geography, ISBN 1589484498
Foundations of Homeland Security and Emergency Preparedness

Course Code: 997003
Prerequisites: Homeland Security Academy program student
Credits: 1.0 Homeland Security/Information Communications Technology CTE

This course will introduce students to Homeland Security and Emergency Preparedness guidelines, concepts, and action plans. Emphasis will be placed on unique aspects of public safety and public health. The course will explore the various methodologies for intelligence gathering and dissemination and will introduce students to various local, state, and federal assets. Students will prepare an action plan that includes initial notification, emergency response (on and off scene), and recovery.


Geospatial Application Project

Course Code: 997040
Prerequisites: Advanced Skill-Based Training for Geographic Information Systems and Remote Sensing
Credits: 1.0 Homeland Security/Information Communications Technology CTE

Students will use Project Management Model to discuss and develop a GIS project. Teacher approved projects will require students to use the skills, processes and content knowledge of GIS/ArGIS to complete their selected project. Each of the final projects is designed to let the students put their Geospatial skills to use. Each student will need to complete one project and achieve a 70% or higher on the end of course certification test to earn GIS industry certifications.

Textbook(s): Arc GIS Online Educational Resources, Getting to Know Arc GIS, ISBN 9781589483828

Introduction to Geographic Information Systems and Remote Sensing

Course Code: 997010
Prerequisites: Foundations of Homeland Security & Emergency Preparedness Recommended
Credits: 0.5 Information/Communication CTE

This class will introduce students to Geographic Information Systems (GIS) and Remote Sensing (RS) technology through academic study and applied instruction. Students will learn the history of mapping and the place GIS has in its future. They will also learn the operation of the Global Positioning System. Through hands-on activities, students will learn to manage a GIS project, manipulate remote sensing data to identify features and analyze data, and create and present a GIS project based on local data. This course is the foundation of the STARS Entry-Level GIS Technician.

Textbook(s): The ArcGIS Book: 10 Big Ideas about Applying Geography to Your World, ISBN 9781589484498

Skilled-Based Training for Geographic Information Systems and Remote Sensing

Course Code: 997020
Prerequisites: Foundations of Homeland Security & Emergency Preparedness Recommended
Credits: 0.5 Information/Communication CTE

This course will help students learn the skills required to work on and/or build a Geographic Information Systems/Remote Sensing project. Students will follow a course of hands-on instruction to learn skills ranging from introductory digital mapping to image analysis. In this second course on the path to STARS Entry-Level GIS Technician Certification, students are introduced to each skill with a real-world application and led in a problem solving process. Specifically, students will manage a data inventory; manipulate and analyze census data using a GIS; create a building site plan using a local data inventory; collect data from a variety of sources to display in a GIS; and apply the concepts of Geocoding and Hyperlinks within a GIS.

Textbook(s): Arc GIS Online Educational Resources, Getting to know Arc GIS, ISBN 9781589483828
HOMELAND SECURITY SCIENCES

Foundations of Homeland Security and Emergency Preparedness
Course Code: 997003
Prerequisites: Homeland Security Academy program student
Credits: 1.0 Homeland Security Sciences/Information Communication Technology

See description on previous page.

Homeland Security Science
Course Code: 997013
Prerequisites: Foundations of Homeland Security and Emergency Preparedness Recommended
Credits: 1.0 Homeland Security Sciences

In this course, students will be introduced to Homeland Security and Emergency Preparedness threats to public safety and health, decontamination, protection, detection and identification, and planning concepts. Emphasis will be placed on the utilization of science to protect the public against chemical and biological threats. This course will explore the various methodologies for intelligence gathering and dissemination and will introduce students to various local, state, and federal assets. Students will prepare an action plan that includes initial notification, emergency response (on and off scene), and recovery.


Homeland Security Science Research Methods and Applications
Course Code: 997023
Prerequisites: Foundations of Homeland Security & Emergency Preparedness Recommended
Credits: 1.0 Homeland Security and Emergency Preparedness

This course will focus on developing the student’s scientific research, problem solving and writing skills. Emphasis will be placed on research and analysis, technical writing, team dynamics, and laboratory analysis and skills. The course will actively engage the student in market survey techniques, technical publication layout and design, team building skills and role play and proper implementation of laboratory instrumentation and equipment.


Homeland Security Internship/Capstone Experience
Course Code: 997033
Prerequisites: Homeland Security Science
Credits: 1.0 Homeland Security and Emergency Preparedness

Internship/Capstone experience is the culminating course for the Academy of Homeland Security and Emergency Preparedness Program. This course is designed to provide students with the opportunity to extend and apply their classroom learning in one of the career areas of Homeland Security Sciences, Information/Communications Technology, or Cyber-Security. Students will have the option of completing an industry-mentored project, internship, or enrolling in a post-secondary course. They will play an integral part in determining which type of experience will be most beneficial and supportive of their individual goals. At the end of the course, students will complete a working portfolio which documents their academic and technical skill attainment and present it for critique.

Textbook(s): Online resources
INFORMATION TECHNOLOGY
CISCO ACADEMY NETWORKING

IT Essentials 1
Course Code: 898813
Prerequisites: Algebra 1; Geometry or Algebra 2; application
Credits: 1.0 IT CISCO Cybersecurity CTE

This Technical Academy offering is a two-year program and must be taken in both the eleventh and twelfth grades. Students gain knowledge and skills for entering careers in computer service and repair, consumer electronics installation and repair, commercial/industrial electronics installation and repair, security system installation, and cable TV installation and service. This knowledge and skill also provides a good foundation for a college major leading to careers in such fields as electrical and electronic engineering, telecommunications and computer science. Instruction and experiences include: the theory and application of analog and digital electronics; the architecture, functioning, and repair of computers; using test equipment to analyze and “troubleshoot” consumer and industrial electronics systems; and producing electronic circuits and systems. Abilities/aptitudes in solving problems, algebra, reading diagrams, manual dexterity, communicating skills and human relations skills are important for success in this program and career field. This program prepares students for an opportunity to take the “A+” Computer Technician Certification examination. This career field has good possibilities for owning and operating your own business.

Textbook(s): Online curriculum and resources

IT Essentials 2
Course Code: 898823
Prerequisites: Algebra 1; Geometry or Algebra 2; application
Credits: 1.0 IT CISCO Cybersecurity CTE

This Technical Academy offering is a two-year program and must be taken in both the eleventh and twelfth grades. Students gain knowledge and skills for entering careers in computer service and repair, consumer electronics installation and repair, commercial/industrial electronics installation and repair, security system installation, and cable TV installation and service. This knowledge and skill also provides a good foundation for a college major leading to careers in such fields as electrical and electronic engineering, telecommunications and computer science. Instruction and experiences include: the theory and application of analog and digital electronics; the architecture, functioning, and repair of computers; using test equipment to analyze and “troubleshoot” consumer and industrial electronics systems; and producing electronic circuits and systems. Abilities/aptitudes in solving problems, algebra, reading diagrams, manual dexterity, communicating skills and human relations skills are important for success in this program and career field. This program prepares students for an opportunity to take the “A+” Computer Technician Certification examination. This career field has good possibilities for owning and operating your own business.

Textbook(s): Online curriculum and resources

CCNA Discovery 1
Course Code: 886563
Prerequisites: IT Essentials 1 and IT Essentials 2
Credits: 2.0 Information Technology CTE

This course is designed for students with basic PC usage skills. It introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The course provides students with hands-on classroom and laboratory work in current and emerging networking technology that emphasizes practical experience. The career-oriented approach to learning networking empowers students to enter employment or further education and training in the computer networking field. Also, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment. A task analysis of current industry standards and occupational analysis was used to develop the content.

Textbook(s): Online curriculum and resources
**CCNA Discovery 2**

*Course Code:* 886573  
*Prerequisites:* IT Essentials 1, IT Essentials 2, and CCNA Discovery 1  
*Credits:* 2.0 Information Technology CTE

This course provides students with practical classroom and laboratory experience in current and emerging networking technology. It is focused on the structure of the Internet and numerous ways computer communicate. This course emphasizes practical applications and a hands-on approach to learning networking in terms of implementation and career opportunities. Students will use networking terminology and protocols, network standards, Open System Interconnection (OSI) models, cabling, cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing, and network standards. Particular emphasis is given to the use of decision-making and problem-solving techniques in applying science, mathematics, communication, and social studies concepts to solve networking problems. In addition, instruction and training are provided in the proper care, maintenance, and use of networking software, tools, and equipment and all local, state and federal safety, building, and environmental codes and regulations. A task analysis of current industry standards and occupational analysis was used to develop the content.

Textbook(s): Online curriculum and resources

**CCNA Discovery 3**

*Course Code:* 886593  
*Prerequisites:* CCNA Discovery 1 and 2  
*Credits:* 2.0 IT CISCO Academy CTE

This course provides students with classroom and laboratory experience in current and emerging networking technology that will empower them to enter employment or further education and training in the computer-networking field. Particular emphasis is given to understanding the nature of and component of networks that make up LANs, WANs and the Internet. Students will implement a basic local-area network (LAN) for an approved network design, configure a switch with virtual local area networks (VLANs) with interswitch communication, and implement access lists to permit or deny specific traffic. After implementing wide area network (WAN) links, students will configure routing protocols on Cisco devices and perform LAN, WAN and VLAN troubleshooting using a structured methodology and the Open System Interconnection (OSI) Reference Model. A task analysis of current industry standards and occupational analysis was used to develop the content.

Textbook(s): None

**CCNA Discovery 4**

*Course Code:* 886603  
*Prerequisites:* CCNA-Discovery 1, 2 and 3  
*Credits:* 2.0 IT CISCO Academy CTE

This course provides students with classroom and laboratory experience in current and emerging networking technology that will empower them to enter employment or further education and training in the computer-networking field. A task analysis of current industry standards and occupational analysis was used to develop the content. It involves students in gathering customer requirements to design a simple Internetwork using Cisco technology. Students will also design an Internet Protocol (IP) addressing scheme and an equipment list to meet local area network (LAN) requirements and install and configure a prototype Internetwork. A task analysis of current industry standards and occupational analysis was used to develop the content.

Textbook(s): None
INFORMATION TECHNOLOGY
CISCO ACADEMY - CYBERSECURITY

CCNA Exploration 1
Course Code:  887003
Prerequisites:  Algebra 1, Geometry, or Algebra 2
Credits:  2.0 IT CISCO Academy CTE

This course is designed for students with advanced problem solving skills, such as those who are pursuing a career in engineering, math or science. It allows students to learn skills in a more rigorous, comprehensive and theoretical way that is reflective of standard college and university-level educational practices. Students will perform complex and challenging hands-on labs to develop critical thinking, problem solving, and collaboration skills, as well as practical knowledge. A task analysis of current industry standards and occupational analysis was used to develop the content. Upon completing this course, students will be able to use network protocol models to explain the layers of communications in data networks; design, calculate and apply subnet masks and addresses; build a simple Ethernet network using routers and switches; use Cisco command line interface (CLI) commands to perform basic router and switch configuration and verification; and analyze the operations and features of the transport and network layer protocols and services.

Textbook(s): Online curriculum and resources

Dual Credit: Earning credit for INT 1450 CCNA 1: Network Fundamentals at Prince George’s Community College makes a student eligible for 886543 CCNA Networking DE credit.

CCNA Exploration 2
Course Code:  887013
Prerequisites:  CCNA Exploration 1
Credits:  2.0 IT CISCO Academy CTE

This course is designed for students with advanced problem solving skills, such as those who are pursuing a career in engineering, math or science. It allows students to learn skills in a more rigorous, comprehensive and theoretical way that is reflective of standard college and university-level educational practices. Students will perform complex and challenging hands-on labs to develop critical thinking, problem solving, and collaboration skills, as well as practical knowledge. A task analysis of current industry standards and occupational analysis was used to develop the content. After completing this course, students will be able to configure and verify router interfaces; demonstrate comprehensive routed Internet protocol, version 1 (RIPv1); design and implement a classless Internet protocol (IP) addressing scheme for a network; use advanced configuration commands with routers implementing Enhanced Interior Gateway Routing Protocol (EIGRP); apply the basic RIPv2 configuration commands and evaluate RIPv2 classless routing updates; and identify the characteristics of distance vector routing protocols.

Textbook(s): Online curriculum and resources

Dual Credit: Earning credit for INT 1540 Computer Hardware I: A+ Prep at Prince George’s Community College makes a student eligible for 898883 IT Essentials 1 DE credit.

CyberWatch: Ethics & Information Age
Course Code:  886013
Prerequisites:  CCNA Exploration 1 and 2
Credits:  1.0 IT CISCO Cybersecurity CTE

Upon completion of this course the student will have a clearer understanding of certain ethical issues in information technology as well as an understanding of how ethical theory can be applied to a discussion and analysis of those issues. In critically examining a cluster of information technology issues within the framework of ethical theory, students can develop a rational, coherent, and systematic approach to addressing moral issues in information technology.

Textbook(s): TBA
**Cyber Watch: Security+**

*Course Code:* 886003  
*Prerequisites:* CCNA Exploration 1 and 2; CyberWatch: Ethics  
*Credits:* 1.0 IT CISCO Cybersecurity CTE

This course offers in-depth coverage of the current risks and threats to an organization’s data, combined with a structured way of addressing the safeguarding of these critical electronic assets. The course provides a foundation for those responsible for protecting network services, devices, traffic, and data. Additionally, the course provides the broad-based knowledge necessary to prepare students for further study in other specialized fields.

*Textbook(s):* Online curriculum and resources

**INFORMATION TECHNOLOGY**

**COMPUTER INFORMATION SYSTEMS**

**Advanced Placement Computer Science A**

*Course Code:* 867323  
*Prerequisites:* Foundations of Computer Science, Advanced Placement Computer Science Principles, Algebra 1  
*Credits:* 1.0 IT CISCO Academy CTE

This is an advanced course in computer science. Because the design and implementation of computer programs to solve problems involve skills that are fundamental to the study of computer science, a large part of the course is built around the development of computer programs that correctly solve a given problem. These programs should be understandable, adaptable, and, when appropriate, reusable. At the same time, the design and implementation of computer programs is used as a context for introducing other important aspects of computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, the study of standard algorithms and typical applications, and the use of logic and formal methods. In addition, the responsible use of these systems is an integral part of the course. The course emphasizes both object oriented and imperative problem-solving and design using Java language.

*Textbook(s):* TBA

**Advanced Placement Computer Science Principles**

*Course Code:* 867343  
*Prerequisites:* 867303 Foundations of Computer Science  
*Credits:* 1.0 IT Computer Information Systems CTE

CSP aims to develop computational thinking, generate excitement about career paths that use computing, and introduce professional tools that foster creativity and collaboration. The course also aims to build students’ awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course aims to engage students to consider issues raised by the present and future societal impact of computing. Students use Python® as a primary tool and incorporate multiple platforms and languages for computation. Students practice problem solving with structured learning experiences and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

*Textbook(s):* None

**Client Operating Systems**

*Course Code:* 867383  
*Prerequisites:* None  
*Credits:* 1.0 IT Computer Information Systems CTE

This course familiarizes students with basic concepts and functioning of Network Client operating systems. Topics covered include users, groups and policies, configuration, file systems, TCP/IP, setup, workgroups, domains, OSI models, and internetworking with remote access service.

*Textbook(s):* None
Computing Tools and Environment

Course Code: 867373
Prerequisites: None
Credits: 1.0 IT Computer Information Systems CTE

This course is an introduction to key computing environments in information technology. These environments vary in computing platforms, user interface, and collection of tools and applications available. This course familiarizes students with basic concepts and functioning of Windows, MS DOS, and UNIX operating systems as well as basic Internet tools for versatile computer literacy.

Textbook(s): None

Database Foundation

Course Code: 864513
Prerequisites: None
Credits: 1.0 IT Computer Information Systems CTE

This course introduces students to basic relational database concepts. The course teaches students relational database terminology, as well as data modeling concepts, building Entity Relationship Diagrams (ERDs), and mapping ERDs. Oracle SQL Developer Data Modeler is utilized to build ERDs and The Structured Query Language (SQL) is used to interact with a relational database and manipulate data within the database. Oracle Application Express is utilized to provide practical, hands-on, engaging activities. Leveraging project-based learning techniques, students will create and work with projects which challenge them to design, implement, and demonstrate a database solution for a business or organization.

Textbook(s):

Database Design and Programming with SQL

Course Code: 864203
Prerequisites: Database Foundations
Credits: 1.0 IT Computer Information Systems CTE

The Database Design course prepares students for database programming by challenging them to analyze complex business cases, to identify patterns to make connections between disparate data, and to create a model for how a business should manage its information. This model becomes the blueprint for building the database. Students will develop professional skills, including teamwork, presentation skills, project management, and reflective thinking.

Textbook(s): TBA

Dual Credit: Earning credit for INT 1111 Programming Logic and Design at Prince George’s Community College makes a student eligible for 867333 Foundations of Computer Science DE credit.

Dual Credit: Earning credit for INT 1700 Understanding Operating Systems at Prince George’s Community College makes a student eligible for 886583 Systems Engineering 1 DE credit.

Database Programming with PL/SQL and Database Project

Course Code: 864223
Prerequisites: Database Design and Programming with SQL
Credits: 1.0 IT Computer Information Systems CTE

This course covers PL/SQL, a procedural language extension to SQL. Through an innovative project-based approach, students learn procedural logic constructs such as variables, constants, conditional statements, and iterative controls. The Database Programming with PL/SQL course introduces students to the PL/SQL programming language. In this course, students learn how to write PL/SQL code. Students learn to develop stored procedures, functions and packages, and they extend their knowledge of PL/SQL by learning more advanced topics such as creating database triggers, manipulating large objects, and managing dependencies. Students will work on a project to build a web-based application using Oracle APEX platform - including user login, registration, reports, form and shopping cart.

Textbook(s): TBA
**Introduction to Computer Programming**

*Course Code: 390023*

*Prerequisites: Algebra 1 Co-requisite: Algebra 2*

*Credits: 1.0*

Introduction to Computer Programming is a course designed to prepare and provide students with the fundamental principles and concepts of programming. Students will apply mathematical and logical expression to solve a variety of computational problems; apply computational, programming and design strategies to develop and explain a performance task; manipulate objects in a digital environment using computational artifacts, and use control structures to solve general problems. The emphasis is on solving real-world problems by means of computer programming using text-based programming languages. Topics will include object-oriented design techniques, classes, objects, data types, control statements (selection and iteration), and arrays. Emphasis will be placed on computer science skills, problem-solving, algorithm design and documentation.

Textbooks: TBA

**Java Fundamentals**

*Course Code: 864503*

*Credits: 1.0 IT Computer Information Systems CTE*

This course engages students with little or no programming experience to create Java programs. Participants are introduced to object-oriented programming concepts, terminology, and syntax, and the steps required to create basic Java programs using the Alice, Greenfoot, and Eclipse interactive development environments. Hand-on practices figure prominently throughout this course so students can experience firsthand the power of computer programming.

Textbooks: TBA

**INFORMATION TECHNOLOGY**

**IT SOFTWARE PROGRAMMING**

**Android Apps Development and Apps Project**

*Course Code: 864233*

*Prerequisites: AP Computer Science*

*Credits: 1.0 Elective*

This course will teach application development on Android platform using the Java Programming Language and the Eclipse Development Environment. Students will build on the knowledge of Java programming acquired during AP Computer Science and learn basics of Android platform, application life cycle. They will learn how to build widgets and apps using phone camera, geo-location tools, and playing audio and video files. Students will work on a project to build an app using advanced Android controls including - forms, dialogs, geo location, map view, and audio–video controls.

Textbook(s): TBA

**Database Foundations**

*Course Code: 864513*

*Prerequisites: Algebra 1*

*Credits: 1.0*

This course introduces students to basic relational database concepts. The course teaches students relational database terminology, as well as data modeling concepts, building Entity Relationship Diagrams (ERDs), and mapping ERDs.

Textbook(s): TBA
Java Fundamentals
Course Code: 864503
Prerequisites: Algebra 1
Credits: 1.0 IT Software Programming CTE
This course engages students with little or no programming experience to create Java programs. Participants are introduced to object-oriented programming concepts, terminology, and syntax, and the steps required to create basic Java programs using Alice, Greenfoot, and Eclipse interactive development environments.
Textbook(s): TBA

PC Hardware and Software
Course Code: 864103
Prerequisites: None
Credits: 1.0 Elective
This course presents an in-depth exposure to computer hardware and operating systems, as well as "soft skills" related to customer interaction and service. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands-on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. This course prepares students for CompTIA's A+ certification. Students are encouraged to take the Generalized Knowledge portion of the A+ exam when they complete the first ten units of this course. After completing units 11-16 of the course, students can take the Specializations section of the A+ exam to complete the A+ Certification process. During the second half of the course, there is an intensive introduction to Specialization topics such as installing operating systems, configuring networks, video cards etc.
Textbook(s): TBA

Web Development and Web Project
Course Code: 864243
Prerequisites: None
Credits: 1.0 Elective
This is an advanced course in web development and builds on the previously acquired knowledge. Students will learn Java 2 Platform Enterprise Edition (J2EE) framework including servlet, Java Serva Pages (JSP), database connectivity using Java Database Connectivity (JDBC), concept of session, GET and POST request, Hypertext Transfer Protocol (HTTP) request and response, Model-View-Controller (MVC) pattern. Students will work on a project to build a web-based application on J2EE platform - including user login, registration, reports, form and shopping cart.
Textbook(s): TBA

INFORMATION TECHNOLOGY
IT SYSTEMS ENGINEERING

CCNA Introduction to Networks
Course Code: 886533
Prerequisites: PC Hardware and Software; Systems Engineering or teacher approval
Credits: 1.0 IT Systems Engineering CTE
CCNA Intro to Networks is the first of two courses leading to Cisco Certified Entry Network Technician (CCENT) certification. Students will learn comprehensive networking concepts and skills, from network applications to the protocols and services provided to those applications by the lower layers of the network. Students will progress from basic networking to more complex enterprise and theoretical networking models. Students will also learn technology concepts with the support of interactive media and apply and practice this knowledge through a series of hands-on and simulated activities that reinforce learning. By the end of the course, students will be able to build simple Local Area Networks (LANs), perform basic configurations for routers and switches, and implement IP addressing schemes.
CCNA Routing and Switching Essentials

Course Code: 886523
Prerequisites: CCNA Introduction to Networks
Credits: 1.0 IT Systems Engineering CTE

CCNA Routing and Switching Essentials is the second of two courses leading to Cisco Certified Entry Network Technician (CCENT) certification. This course covers extensive coverage of networking topics, from fundamental to advanced applications and services, with many opportunities for students to gain hands-on practical experience and develop career skills. Students will learn technology concepts with the support of interactive media and apply and practice this knowledge through a series of hands-on and simulated activities that reinforce learning. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANS, and inter-VLAN routing in both IPv4 and IPv6 networks.

Textbook(s): Online - CCNA: Routing and Switching

Dual Credit: Earning credit for INT 1460 CCNA 2: Routing Protocols at Prince George’s Community College makes a student eligible for 886553 CCNA Routing DE credit.

PC Hardware and Software

Course Code: 864103
Prerequisites: None
Credits: 1.0 Elective

See description on previous page.

Textbook(s): TBA

Systems Engineering 1

Course Code: 872003
Prerequisites: Computer Repair and Operating Systems
Credits: 1.0 Elective

The ability to build and administer Windows desktop clients is a skill fundamental to the study of server and network infrastructure. For that reason, a large part of the course is built around the preparation, design, and configuration of basic computer operating systems. The course will emphasize the development of diagnostic, repair, and troubleshooting skills necessary to effectively administer Windows clients. In addition, the course will focus on deploying Windows operating systems in homes, as well as large enterprise environments. An understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course. Finally, this course will prepare the students for Microsoft’s 70-680, 70-685, and 70-686 exams.

Textbook(s): Microsoft IT Academy

HUMAN RESOURCE SERVICES

Early Childhood Education 1

Course Code: 686103
Prerequisites: Grade 10 Child Growth and Development pathway student
Credits: 1.0 Completer

The course presents practical experience for teaching in a child development laboratory on the school premises. Emphasis is placed on the developmental tasks of young children, curriculum for preschool, and skills for the transition from school to work. Students develop a portfolio that reflects the ability to plan and prepare lesson plans for preschoolers. Practical knowledge and skills for parenthood are an integral part of the course. This is the first course in the Child Growth & Development State Approved Completer Program. Students may
participate in the Early Childhood Education Tech Prep Program at Prince George’s Community College and/or document hours for the 90 Clock Hour and State Senior Staff Certification.

Textbook(s): *The Developing Child*, ISBN 9780078883606

**Child Growth and Development 2**

Course Code: 687203  
Prerequisites: Grade 11 or 12; good attendance; successful completion of Child Development 1 and teacher approval  
Credits: 2.0 Child Growth & Development CTE

This yearlong double period course covers in depth the growth and development of the school age child. Emphasis is on the practical experience of working in a local preschool or elementary school where the student assists a teacher. Students continue to develop their Child Development 1 portfolio. This is the second course in the Child Growth and Development state approved completer program and may serve as an elective for the MSDE approved Teacher Academy of Maryland completer program. Students may participate in the Early Childhood Education Tech Prep Program at Prince George’s Community College and/or document hours for the 90 Clock Hour and State Senior Staff Certification. Written parental permission is required for students who will be traveling by county school bus.

Textbook(s): *Working with Young Children*, ISBN 9781590701287; *The Developing Child*, ISBN 9780078883606

**Child Growth and Development Internship**

Course Code: 688323 - 2 credits  
688333 - 3 credits  
688343 - 4 credits  
Prerequisites: Grade 12; good attendance; successful completion of Child Development 2 and teacher approval  
Credits: 2.0, 3.0, 4.0 Completer

This two- to four-credit course focuses on careers and cooperative work experience that prepares students for the transition from school to work. Field experience is with young children in the community. Students continue to develop their Child Development 1 and 2 portfolios. This is the final course in the Child Growth and Development state approved completer program. Students may participate in the Early Childhood Education Tech Prep Program at Prince George’s Community College and/or document hours for the 90 Clock Hour and State Senior Staff Certification. Students may also register for concurrent enrollment at Prince George’s Community college as part of the Tech Prep Program. Students must obtain their own job working with children and must provide their own transportation. Students are required to work five hours per week for each credit earned.

Textbook(s): *Child & Adult Care Professionals*, ISBN 9780078290138

**Human Resources Services**

**FIRE/EMERGENCY MEDICAL SERVICES**

**Emergency Medical Responder**

Course Code: 988113  
Prerequisites: Fire Cadet program of study student  
Credits: 1.0 Elective

Major topics covered in the course are an introduction to the EMS system, legal aspects of care, equipment, tools, and supplies; general anatomy and patient assessment; respiratory system, resuscitation, and CPR; aids to resuscitation and oxygen administration; management of bleeding, shock, and soft tissue injuries; management of fractures and spinal injuries; environmental emergencies and care of burns; care of special patients including obstetric, pediatric, and elderly; and special incidents including triage, water accidents, and gaining access to and moving patients. Methods of instruction include lecture; discussion; classroom exercises; audio/visual material; skills, written, and practical examinations; and graded skill evaluations.

Textbook(s): *First Responder*, ISBN 9780136140597
Emergency Medical Technician EMT I
Course Code: 988183
Prerequisites: Fire Cadet Program of Study Admission; Fire Fighter 1
Credits: 2.0 Completer
The objective of this course is to provide students with the necessary knowledge and skills to perform emergency medical care in a pre-hospital environment at the basic life support level. Upon successful completion of this course, the student will be able to recognize, assess, and manage medical and trauma signs and symptoms in patients of emergency situations. Students must achieve a score of at least 70% on the written examination and pass all practical examinations and meet attendance requirements in order obtain EMT certification.

Textbook(s): Emergency Care, ISBN 9780132543804

Emergency Medical Technician EMT II
Course Code: 988313
Prerequisites: Fire Cadet Program of Study Admission; Fire Fighter 1
Credits: 2.0 Completer
The objective of this course is to provide students with the necessary knowledge and skills to perform emergency medical care in a pre-hospital environment at the basic life support level. Upon successful completion of this course, the student will be able to recognize, assess, and manage medical and trauma signs and symptoms in patients of emergency situations. Students must achieve a score of at least 70% on the written examination and pass all practical examinations and meet attendance requirements in order obtain EMT certification.

Textbook(s): Emergency Care, ISBN 9780132543804

Fire Fighter 1
Course Code: 988133
Prerequisites: Fire Cadet program of study student
Credits: 1.0 Fire Fighter & EMT CTE
The objective of this course is to provide students with the knowledge and skills to safely and effectively perform basic fire fighting operations as part of a firefighting team. Upon successful completion of this course, the student will be able to understand and apply the principles of fire behavior; building construction; water distribution systems; fixed fire protection systems; ventilation; hose streams; fire prevention; and inspections, ladders, and rescue techniques. (National Fire Protection Association Standard 1001 for Fire Fighter Professional Qualifications). Major topics covered in the course are the fire department organization, communications, incident command system, ropes and knots, fire behavior, safety, fire prevention, personal protective equipment, fire extinguishers, respiratory protection, ventilation, hose lines, forcible entry, search and rescue procedures, and ladder and sprinkler systems. Methods of instruction include lecture, discussion classroom exercises, audio/visual material, graded practical exercises, midterm and final examinations, series of practical examinations, and skills check off and homework assignments, all evaluated by the instructor for satisfactory completion.

Textbook(s): Essentials of Firefighting, ISBN 9780879392840

Fire Fighter 2
Course Code: 988193
Prerequisites: Fire Cadet program of study student; Fire Fighter 1
Credits: 1.0 Fire Fighter & EMT CTE
The objective of this course is to provide the knowledge and skills needed to become a journeyman firefighter. Upon successful completion of this course, the student will be able to understand and apply the principles of fire behavior; building construction; water distribution systems; fixed fire protection systems; ventilation; hose streams; fire prevention; inspections; ladders; and rescue techniques. (National Fire Protection Association Standard 1001, Fire Fighter Professional Qualifications). The student must achieve a score of at least 70% on the written and practical final examination in order to obtain certification in this course.

Textbook(s): Essentials of Firefighting, ISBN 9780879392840
**Human Resource Service**  
**HUMAN RESOURCE SERVICE**  
**TEACHER ACADEMY**

### Education Academy Internship

**Course Code:** 689503  
**Prerequisites:** Grade 12 Teacher Academy pathway student;  
Successful completion of Human Growth and Development through Adolescence, Teaching as a Profession; concurrent enrollment in Foundations of Curriculum and Instruction  
**Credits:** 1.0 Teacher Academy CTE  

The internship is the culminating course of the Education Academy Program. Students have an opportunity to integrate content and pedagogical knowledge in an educational area of interest. They will have the opportunity to extend and apply their knowledge about teaching in a classroom setting under the supervision of a mentor teacher and complete their working portfolio and present it for critique. This is the fourth course for the Teacher Academy of Maryland TAM state approved completer program.  

Textbook(s): Effective Teaching Methods, Research and Practice, ISBN 9780131367180

### Foundations of Curriculum and Instruction

**Course Code:** 689403  
**Prerequisites:** Grade 12 Teacher Academy pathway student;  
Successful completion of Human Growth and Development through Adolescence, Teaching as a Profession; concurrent enrollment in Teaching Academy Internship  
**Credits:** 1.0 Teacher Academy CTE  

This course explores curriculum delivery models in response to the developmental needs of all children. Emphasis is placed on the development of varied instructional materials and activities to promote learning, classroom management strategies, and a supportive classroom environment. Students explore basic theories of motivation that increase learning; participate in guided observations and field experiences to critique classroom lessons in preparation for developing and implementing their own; and continue to develop the components of a working portfolio to be assembled upon completion of the internship. This is the third course for the Teacher Academy of Maryland (TAM) state approved completer program. Students are concurrently enrolled in Teaching Academy Internship.  

Textbook(s): Effective Teaching Methods, Research and Practice, ISBN 9780131367180  
Dual Credit: Earning credit for TED 2000 Foundations of Curriculum Education at Prince George’s Community College makes a student eligible for 689413 Found of Curriculum DE credit.

### Human Growth and Development Through Adolescence

**Course Code:** 686403  
**Prerequisites:** Teacher Academy of Maryland student  
**Credits:** 1.0 Teacher Academy CTE  

This course focuses on human development from birth through adolescence. Emphasis is placed on theories of physical, cognitive, and psychosocial development, the effect of heredity and the environment, the role of caregivers and the family, health and safety concerns, and contemporary issues. Students explore special challenges to growth and development. Students will have opportunities for guided observation of children from birth through adolescence in a variety of settings to help students further understand theories of human development. Students will begin to develop the components of a working portfolio to be assembled upon completion of the internship.  

Textbook(s): The Developing Child, ISBN 9780078689680
**Teaching as a Profession**

*Course Code:* 689303  
*Prerequisites:* Grade 11 student; Human Growth and Development through Adolescence  
*Credits:* 1.0 Teacher Academy CTE

This course focuses on the profession of teaching - its history, purposes, issues, ethics, laws and regulations, roles, and qualifications. Emphasis is placed on identifying the current, historical, philosophical and social perspectives of American education, including trends and issues. Students explore major approaches to human learning; participate in guided observations and field experiences in multiple settings to help them assess their personal interest in pursuing careers in this field and to identify effective learning environments; and continue to develop the components of a working portfolio to be assembled upon completion of the internship. This is the second course for the Teacher Academy of Maryland (TAM) state approved completer program.

Textbook(s): *Teachers, Schools and Society*, ISBN 9780073331614

**TRANSPORTATION**  
**AUTOMOTIVE BODY REPAIR**

**Nonstructural Analysis & Damage Repair**

*Course Code:* 872803  
*Prerequisites:* Auto Body Repair program of study student  
*Credits:* 2.0 Completer

This course provides the student with the knowledge and skills necessary to pass the written NA3SA Collision Repair and Refinishing End-of Program Exam for Non-Structural Analysis & Damage Repair (B3) and immediately enter a career in this area and/or attend postsecondary education and/or training. Students develop diagnostic, technical and academic skills through classroom instruction and hands-on non-structural analysis and damage repair applications. Through theory and real-world experiences, students master the concepts and the ability to identify and perform necessary Non-Structural Analysis and Damage Repair tasks utilizing the latest techniques and applications. In addition, this course will address an introduction to welding; personal and environmental safety practices associated with clothing; respiratory protection, eye protection; entry level automotive service technology principles and practices; hand tools; power tools/equipment; proper ventilation; and the handling, storage, measuring and mixing procedures, raising and supporting vehicles, damage report principles and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations. I-CAR Live Curriculum and NATEF Task List mastery for this area are used to formulate accurate estimates of cost of repairs.


**Painting and Refinishing**

*Course Code:* 872813  
*Prerequisites:* Nonstructural Analysis & Damage Repair  
*Credits:* 2.0 Completer

This course provides the student with the knowledge and skills necessary to pass the written NATEF Painting and Refinishing NA3SA Exam for Paint and Refinishing and immediately enter a career in this area and/or attend postsecondary education and/or training. Utilizing the I-CAR Live Curriculum, students develop diagnostic, technical and academic skills through their participation in classroom instruction and hands-on applications in the areas of surface preparation; paint mixing, matching, application and paint equipment preparation; identification and correction of defects; final detailing and the ability to identify and perform other necessary Painting and Refinishing tasks.

Structural Analysis & Damage Repair

Course Code: 872823
Prerequisites: Painting and Refinishing
Credits: 2.0 Automotive Body Repair CTE

This course provides the student with the knowledge and skills necessary to pass the written NATEF Structural Analysis and Damage Repair Exam and immediately enter a career in this area and/or attend postsecondary education and/or training. Students develop diagnostic, technical and academic skills through classroom instruction and hands-on structural analysis and damage repair applications. Through theory and real-world experiences, students master the concepts and the ability to identify and perform necessary Structural Analysis and Damage Repair tasks utilizing the latest techniques and applications. The course provides a theoretical study of structural collision damage, its analysis and repair. The course emphasizes the proper procedures for measuring, analyzing and developing correct repair procedures for unibody and body-over-frame vehicles. Student technicians develop repair plans and discuss their implementation. The course also emphasizes the restoring of vehicles to their pre-accident condition using manufacturer and industry recommendations. This course equips the student with the knowledge, skills and abilities necessary for immediate employment in the Transportation Equipment Pathway and/or continuing postsecondary education. Students utilize I-CAR Live Curriculum and NATEF Collision Repair Program Standards/Task List.

Textbook(s): Auto Body Repair Technology, ISBN 9781418073534

TRANSPORTATION AUTOMOTIVE TECHNICIAN

Automotive Technician Work Experience

Course Code: 875853
Prerequisites: Grade 12 student; concurrent enrollment in Engine Performance
Credits: 1.0 Automotive Technology CTE

Work-based learning is an integral component of the Automotive Technician program. This course will provide students the opportunity to extend and apply classroom content in real-life situations through experiential learning. Students may be placed at a variety of paid and unpaid automotive sites.

Textbook(s): Modern Automotive Technology, ISBN 9781590709566

Brakes

Course Code: 875813
Prerequisites: Suspension and Steering
Credits: 1.0 Automotive Technology CTE

This course provides the student with the knowledge and skills necessary to pass the NA3SA end-of-course assessment for Automobile Brakes and immediately enter a career in this area and/or attend postsecondary education and/or training. Students develop diagnostic, technical problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Through theory and real-world experiences, students master the concepts and the ability to research applicable vehicle and service information, collect and analyze relevant data, troubleshoot, identify, formulate proposed solutions to problems and perform necessary automobile brake diagnosis and repair tasks. Students will use state-of-the-art precision brake measurement tools and equipment to gather, analyze make necessary NATEF required brake repairs tasks.

Textbook(s): Modern Automotive Technology, ISBN 9781590709566

Electrical/Electronic Systems

Course Code: 875833
Prerequisites: Brakes
Credits: 2.0 Automotive Technology CTE

This course provides the student with the knowledge and skills necessary to pass the NA3SA end-of-course assessment for Automobile Electrical/Electronic Systems and immediately enter a career in this area and/or
attend postsecondary education and/or training. Students develop diagnostic, technical problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Through theory and real-world experiences, students master the concepts and the ability to research applicable vehicle and service information, collect and analyze relevant data, troubleshoot, identify, formulate proposed solutions to problems and perform necessary automobile electrical and electronic systems repair tasks. Students will use state-of-the-art precision electronic measurement tools, fault code readers and equipment to gather, analyze, and make necessary NATEF required electrical and electronic system repairs.


**Engine Performance**

**Course Code:** 875843  
**Prerequisites:** Electrical/Electronic Systems  
**Credits:** 2.0 Automotive Technology CTE

This course provides the student with the knowledge and skills necessary to pass the NA3SA end-of-course assessment for Automobile Engine Performance and immediately enter a career in this area and/or attend postsecondary education and/or training. Students develop diagnostic, technical problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Through theory and real-world experiences, students master the concepts and the ability to research applicable vehicle and service information, collect and analyze relevant data, troubleshoot, identify, formulate proposed solutions to problems and perform necessary automobile engine performance troubleshooting and repair tasks. Students will use state-of-the-art precision electronic engine performance measurement tools, fault code readers and equipment to gather, analyze, and make necessary NATEF required engine performance repairs.


**Suspension and Steering**

**Course Code:** 875823  
**Prerequisites:** Algebra 1, Enrollment in the Automotive Technician program of study  
**Credits:** 1.0 Automotive Technology CTE

This course provides the student with the knowledge and skills necessary to pass the NA3SA end-of course assessment for Automobile Suspension and Steering and immediately enter a career in this area and/or attend post-secondary education and/or training. Students develop diagnostic, technical, problem-solving and academic skills through classroom instruction and hands-on maintenance applications. Through theory and real-world experiences, students master the concepts and the ability to research applicable vehicle and service information, collect and analyze relevant data, troubleshoot, identify, formulate proposed solutions to problems and perform necessary automobile suspension and steering repair tasks. Students will use state-of-the-art precision steering and alignment measurement tools and equipment to gather, analyze and make necessary repairs.


**Career and Technical Education Business**

**BUILD - Entrepreneurial Management for English Language Learners**

**Course Code:** 574613  
**Prerequisites:** WIDA ACCESS score of 3.0 in Listening, Speaking, Reading, and Writing  
**Credits:** 1.0 Elective

In this year-long course, students will have the opportunity to develop their social and academic English language proficiency skills through experiential learning. This course will allow students to: think outside the box as they learn problem solving skills and practice approaching problems through collaboration and innovation; test their entrepreneurial know-how by reading and responding to several business case studies as well as generate
ideas for creating their business prototypes; prepare and present their final business plans; and bring their own businesses to life in the launch phase. This course is aligned with Maryland College and Career Ready standards and World Class Instructional Design and Assessment (WIDA) English Language Development (ELD) standards highlighting the four domains of language—speaking, listening, reading, and writing.

Textbook(s): Materials from BUILD Program

**Business Communications**

*Course Code:* 551100  
*Prerequisites:* Computer Software Applications  
*Credits:* 0.5 Elective

The first quarter of this semester long course is designed to teach students to efficiently use a keyboard in order to prepare and format documents relevant in a business environment and communicate effectively. Emphasis will be placed on proper keyboarding technique inclusive of spelling, punctuation, capitalization, and word usage. The second quarter of the course will teach students to communicate in a clear, courteous, concise, and correct manner on both personal and professional levels. Competency will be developed in oral, written, social, technological, employment, and organizational communication with listening skills incorporated throughout the semester. Students will complete the course with a greater understanding of the importance of technology and the need for effective communication skills to advance in a business career.

Textbook(s): *Business Communications*, ISBN 9780538436823

**Business Law**

*Course Code:* 541000  
*Prerequisites:* 11th Grade student  
*Credits:* 0.5 Elective

Students will gain an understanding of the law as it relates to them currently and the implications of the law in their future lives as well as the lives of their family and friends. The course will include an understanding of the court system at the local, state, and national levels. Students will gain an understanding of contract law, their rights and responsibilities as citizens, utilization of financial transactions, employment and agency relationships, and the understanding of the regulations governing different types of business organizations.


**Business Law 2**

*Course Code:* 542000  
*Prerequisites:* 11th Grade student  
*Credits:* 0.5 Elective

Students will gain an understanding of the law as it relates to them currently and the implications in their future, as well as, the lives of their family and friends. The course will include an understanding of the court system at the local, state, and national levels. Students will gain an understanding of contract law, consumer law, employment law, estate law, their rights and responsibilities as citizens, utilization of financial transactions, employment and agency relationships, the regulations governing different types of business organizations.


**Business Organization and Management**

*Course Code:* 543000  
*Prerequisites:* 10th Grade student  
*Credits:* 0.5 Elective

The Business Organization and Management course seeks to develop sound management skills within students, as management plays a role in any future employment opportunity. Students are able to analyze, synthesize, and evaluate data from the other functional areas of business (e.g., marketing, finance, accounting, and production) as well as focus on managing one’s time and the time and talents of others. Effective management requires decision-making abilities, long-range planning knowledge, human relations expertise, and motivational
skills. Students learn leadership skills and are able to select appropriate management styles. Finally, students are taught current technological applications and the effect international trade has on management style and decisions.


**Business Technology and Procedures**

Course Code: 519003  
Prerequisites: 10th Grade student  
Credits: 1.0 Elective

Business Technology and Procedures provides students with job preparation exercises for administrative support positions. Areas of instruction include organization and functions of offices, time management, information processing concepts, thinking/problem solving skills, reference materials, employment procedures, records management, written communications skills, presentation skills, telephone systems and procedures, career development and interpersonal skills. Review of reading, mathematics skills and keyboarding skills are integrated with instructional units. Job simulations are used extensively.


**Capital One Work Experience**

Course Code: 983003  
Prerequisites: College Career Research and Development 1  
Credits: 1.0 Elective

Students enrolled in this course have completed College Career Research and Development 1 and are selected to intern with the in-house branch of Capital One Bank. Students will work to earn pay, as well as credit toward graduation.

Textbook(s): None

**Computer Software Applications**

Course Code: 534000  
Prerequisites: 9th Grade student  
Credits: 0.5 Elective

This course is designed to provide students with the opportunity to learn commercial software application programs similar to those commonly used in college and industry. It will acquaint students with ways to use a microcomputer as a tool for schoolwork as well as current uses in the workplace. The major software applications used in the course will include software for information processing, database, spreadsheets, graphics and integrated software.


**Entrepreneurship 1**

Course Code: 574400, 574403  
Prerequisites: 11th Grade student  
Credits: 0.5 or 1.0 Elective

This course is designed to prepare students with entrepreneurship skills that reflect relevant learning experiences linked with business. Course topics include: developing a business plan and the step-by-step process of starting, organizing, and managing that business. Licensing, legal procedures, advertising, channeling, market analysis, location, financing, managerial skills, and operating procedures are covered.

Entrepreneurship 2
Course Code: 574503
Prerequisites: Successful completion of Entrepreneurship 1
Credits: 1.0 Elective
This yearlong course is designed as an extension of Entrepreneurship 1. Students will plan, organize and manage all operations of the school store or designated business. Students will also be exposed to a variety of entrepreneurial activities including computer simulations, audiovisual aids, role-playing, speakers and field trips.
Textbook(s): Entrepreneurship: Owning Your Future, ISBN 9780135128442

Financial Management Using Software Applications
Course Code: 553203
Prerequisites: None
Credits: 1.0 Elective
Financial management provides students with the knowledge and practice they need to make informed financial decisions and is consistent with Maryland Council on Economic Education components. Students will learn to successfully manage financial resources. Banking, investing, borrowing, and risk management (insurance) are core content areas of the course. Students will gain knowledge and understanding of revenue, expenses, credit and money management to enable them to make informed decisions in a highly technical and competitive society. Students will gain competencies in software using Microsoft applications. Financial Management is a skill that is essential in all business and personal environments.
Textbook(s): Mathematics for Business and Personal Finance, ISBN 9780021400966

First Year Accounting
Course Code: 535103
Prerequisites: 11th Grade student
Credits: 1.0 Elective
This course is a study of the methods and systems of preparing and maintaining financial records. Emphasis is placed on the need to apply manual and computerized procedures to interpret and accurately record business transactions. Competencies include the study of the basic principles of maintaining records, the accounting cycle, and the preparation and analysis of financial reports with computer assisted instructions. Students who plan to major in business administration in college would benefit from this course.
Textbook(s): Accounting, ISBN 9780078958809 or Century 21 Accounting, ISBN 9780538447560

Future Business Leaders of America
Course Code: 999933
Prerequisites: FBLA Advisor approval, student paid membership, Career and Technical Education or Business Education pathway student.
Credits: 1.0 Elective
This year long course provides students the opportunity to build a portfolio of documented accomplishments as a complement to academic experience. When applying for post secondary institutions and scholarships, students will be able to demonstrate how they served in a leadership position, received awards, or participated in projects for the largest business-based student organization in the world through the Business Achievement Awards (BAA), a self-directed results-based business and leadership program designed to complement academics while accelerating a student’s leadership skills. Students will have the opportunity to participate in up to 50 competitive and skills events from the areas of technology, public speaking, business, finance, and management at the regional, state and national level.
Textbook(s): None
Insurance
Course Code:  511120
Prerequisites:  None
Credits:  0.5 Elective
This course introduces students to the insurance industry and to its critical role in the financial services sector
and in society. It covers common types of insurance, including life, health, disability, property, liability, and
commercial. Students examine the business model underlying the industry and how underwriting, actuarial
science, and investment practices affect an insurance company’s financial success. Finally, they explore career
opportunities, including broker, underwriter, actuary, and claims adjuster.
Textbook(s): Online curriculum

Visual BASIC
Course Code:  534103
Prerequisites:  Algebra 1
Credits:  1.0 Elective
This course, using the programming language BASIC, is for the student who has an interest in the computer-
programming field. It provides the student with an understanding of the data processing cycle, computer hardware
and software, and career opportunities in data processing. The student will write and execute programs in the
Visual BASIC language.

Web Page Design
Course Code:  521000
Prerequisites:  None
Credits:  0.5 Elective
This semester course will provide students the opportunity to develop professional skills in developing and
maintaining Web pages. Students will use web page development tools to design their own web pages. Students
will obtain a marketable skill which may be utilized to obtain an entry-level position in the world of work.

Career and Technical Education
Experiential Learning

Apprenticeship CRD1
Course Number:  986013
Prerequisites:  N/A
Credits:  1.0 College Career Research & Development CTE  Description: Students are required to complete one year of
related classroom instruction. The school system’s CRD Program Coordinator is responsible for coordinating
the apprentice related instruction in collaboration with industry partners and work-based learning instructor.
In addition, the related classroom instruction must assist the student in meeting the goals outlined in the
student’s work-based learning training plan. The collaboration between the CRD Program Coordinator, work-
based learning coordinator and employer are to design a realistic training plan that meets the needs of the
apprenticeship.
Textbook(s): TBA
**Apprenticeship CRD 2**
*Course Number:* 986023, 986033, 986043
*Prerequisites:* Apprenticeship CRD 1
*Credits:* 1.0 College Career Research & Development CTE

The work-based learning experience takes place at the work-site and must be a paid experience (at least minimum wage) with a minimum of 450 hours. This experience is directed by the Apprentice work based learning agreement provided by the school system and a student work plan developed among the student, work based learning coordinator, and eligible employer.

Textbook(s): TBA

**College Career Research and Development I (CCRD I) (Class)**
*Course Code:* 983913
*Prerequisites:* Teacher Approval
*Credits:* 1.0 College Career Research & Development CTE

College Career Research and Development empowers students to create a vision of their future through quality academic coursework, progressive career development, and work-based learning opportunities. CCRD I is designed to teach students the process of self-awareness, career exploration, interest and aptitude assessment, and setting academic and career-related goals. Course content will integrate the development of student's competency in business writing, basic concepts of financial literacy, and Skills for Success (learning, critical thinking, communication, technology, and interpersonal). Students taking this course begin to develop a career portfolio demonstrating workplace and academic readiness.

984073 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

983813 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program.

Textbook(s): *Succeeding in the World of Work*, ISBN 9780078748288

**College Career Research and Development II (CCRD II) (Class)**
*Course Code:* 983923
*Prerequisites:* Grade 11 or 12 Student; Teacher Approval; CCRD I
*Credits:* 1.0 College Career Research & Development CTE

CCRD II is focused on career research and preparation, job seeking techniques, employability skills, i.e., ethics, oral and written communications, technology, and financial literacy. Students continue building and strengthening their career portfolios to demonstrate proficiencies in workplace readiness, personal financial management, personal growth and development, and employment experiences. Students use the career portfolio as part of the interviewing process.

983823 (Class) - Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program.

Textbook(s): *School to Career*, ISBN 9781619603042
College Career Research and Development II (CCRD II) (Work)

Course Code: 983933, 983943, 983953, 983963, 983973, 983983
Prerequisites: Grade 12 Student; Teacher Approval
Credits: 1.0 College Career Research & Development CTE

Students receive up to two credits while employed at school-approved and monitored job sites in private industry and government agencies. The work component allows students to put into practice the basic employability skills and academic content they acquire in the classroom. They attend school part of the day where they are concurrently enrolled in Career Research and Development. The student's portfolio documents proficiency in workplace readiness skills as indicated in the student's work-based learning training plan.

Textbook(s): None

Career and Technical Education
Family and Consumer Sciences

Child Development/Parenthood Education for Adolescent Parents 1

Course Code: 688401, 688402, 688403
Prerequisites: Adolescent Parents only
Credits: 0.5, 1.0 Completer

This semester or yearlong course covers the stages of growth and development for children from birth to five years. Students have an opportunity to acquire skills in understanding the characteristics and needs of infants and young children, in communicating with children, and in guidance and discipline techniques. The development of parenting skills is stressed by examining the demands of parenthood, the rights and responsibilities of parent and child, and the practical aspects of parenting. Prenatal care and development of the fetus are examined in addition to caring for a newborn. The special needs of exceptional children are identified. Students explore non-traditional careers and review requirements for these occupations, job application procedures, and responsibilities of these careers. This course is for adolescent pregnant and parenting students at schools identified by the supervisor.

Textbook(s): The Developing Child; Your Pregnancy & Newborn; Your Baby's First Year; The Challenge of Toddlers; Discipline: Birth to Three; Nurturing Your Newborn, ISBN 9780078883606

Child Development/Parenthood Education for Adolescent Parents 2

Course Code: 688701, 688702, 688703
Prerequisites: Child Development/Parenthood Education for Adolescent Parents 1
Credits: 0.5, 1.0 Completer

This semester or yearlong course covers child development and parenting issues that are pertinent to the needs of adolescent parents. This is the second course designed to assist pregnant and parenting students to remain in school and graduate. Students will continue to develop parenting skills and recognize the importance of understanding the development and needs of infants and young children. Students will develop a career portfolio as they participate in a career assessment, explore careers, and identify job search skills. Emphasis is placed on goal setting and establishing post high school plans for further education and/or employment. This course is designed for adolescent pregnant and parenting students at schools identified by the supervisor.

Textbook(s): The Developing Child; Your Pregnancy & Newborn; Your Baby's First Year; The Challenge of Toddlers; Discipline: Birth to Three; Nurturing Your Newborn, ISBN 9780078883606

Clinical Nutrition

Course Code: 684003
Prerequisites: None
Credits: 1.0 Elective

Clinical Nutrition is a yearlong course where students engage in an intensive study of the Fundamentals of
Nutrition as it relates to general and clinical health. The course covers topics on Nutrition throughout the Life Cycle and introduces students to the prevention of obesity and diabetes as it relates to the study of Nutrition.

Textbook(s): *Food for Today*

Earning credit for NTR 1010 Introduction to Nutrition at Prince George’s Community College makes a student eligible for 684013 Clinical Nutrition DE credit.

**Fashion I (Basic Sewing Skills)**

*Course Code:* 682200  
*Prerequisites:* None  
*Credits:* 0.5 Elective  

This introductory competency-based course provides an opportunity for the student to develop skills and techniques in clothing selection and construction. The student is involved with consumer decisions related to wardrobe planning, selection, purchase, care and maintenance of these clothing choices. In addition, students are encouraged to apply these principles in their personal wardrobe. Construction emphasis in this basic clothing course is placed upon seams, darts, facings, hems, pressing, zippers and other fasteners. Two projects are generally required. Purchase of fabrics, patterns, and notions is the financial responsibility of the student.

Textbook(s): *Clothes and Your Appearance*  ISBN 9781590706855

**Fashion II (Advanced Sewing Skills)**

*Course Code:* 683200  
*Prerequisites:* Teacher approval and successful completion of Fashion I  
*Credits:* 0.5 Elective  

This competency-based semester course builds upon knowledge and skills contained in the Basic Clothing and Textiles curriculum. The student studies characteristics of “special” fabrics and the types of articles made from them. Personal grooming, personal wardrobe planning, and personal style receive emphasis in this course. Other areas of consumer study include care, repair, and recycling of ready-to-wear, new techniques and attachments for sewing machines, and an in-depth update of career opportunities in the fashion industry. Students construct suitable projects based upon new construction techniques learned. The expenditures for the class are the responsibility of the student.

Textbook(s): *Clothes and Your Appearance*  ISBN 9781590706855

**Fashion III (Principles of Clothing Design)**

*Course Code:* 685410  
*Prerequisites:* Teacher approval and successful completion of Fashion II  
*Credits:* 0.5 Elective  

This semester course is for students interested in creating a positive fashion image through individual analysis of personality, body type, coloring, and wardrobe planning. Students explore the elements of design and color as they relate to the appreciation of fashion and reflection on their own personal wardrobe. Students have an opportunity to develop sewing skills by creating a garment or fashion accessory. Fabrics and supplies for personal projects are the financial responsibility of the student.


**Fashion IV (Careers in Fashion)**

*Course Code:* 689010  
*Prerequisites:* Teacher approval and successful completion of Fashion III  
*Credits:* 0.5 Elective  

This competency-based semester course is for students having special interests in fashion. It is designed to help students appreciate opportunities within the fashion industry. This course emphasizes creativity and artistry as they relate to textiles, design and merchandising, manufacturing, media and promotion, and retailing. Innovative situations help students visualize and experience related areas more fully. Students study various fashion designers, fashion trends, and how the elements of design are effectively translated into fashion. The class creates projects to maintain a specialty shop and will coordinate a fashion production. Personal projects
are the financial responsibility of the student.


Financial Literacy for Teens
Course Code: 682700, 682703
Prerequisites: Grade 11 or 12 student
Credits: 0.5, 1.0 Elective

This course presents a variety of units to assist eleventh and twelfth grade students in acquiring personal finance principles. The implementation of the ideas, concepts, knowledge, and skills contained in this course will enable students to apply decision-making skills and to become wise and knowledgeable consumers, savers, investors, users of credit, money managers, citizens, and members of a global workforce and society. Topics of study include financial responsibility and decision making, planning and money management, credit and debt, risk management and insurance, saving and investing, as well as income and careers.

Textbook(s): Learning for Earning: Your Route to Success, ISBN 9781590709467

Food Trends and Technology 1
Course Code: 684100
Prerequisites: Foods and Nutrition
Credits: 0.5 Elective

This semester course presents a variety of units to assist high school students to appreciate the interrelationship of food science and nutrition. Emphasis is placed on food and its affects on the body. A scientific approach to purposeful laboratory experiences allows students to evaluate specific foods and their properties. Students cooperatively research the role technology plays in food processing and study appliances of the past, today, and into the future. This course is a prerequisite for the Food and Beverage Management (ProStart) state approved completer program.

Textbook(s): Principles of Food Science, ISBN 9781619604360

Foods and Nutrition
Course Code: 682000
Prerequisites: None
Credits: 0.5 Elective

This semester course is designed to strengthen the understanding and importance of nutrition as it relates to wellness. The focus of this course is to assist students in making healthy food choices based on the dietary guidelines, food guide pyramid, and nutrient groups. Knowledge and understanding of these elements enable students to select, plan, prepare and serve nutritious meals. Safety and sanitation of food are emphasized. Students practice effective management skills and apply consumer decision-making skills in all aspects of meal planning and food preparation. Weight control and exercise are examined as factors promoting wellness. Students develop a portfolio and explore career paths that lead to employment in the field of nutrition. Field experiences in this course include interviewing and job shadowing professionals. This course is highly recommended for students interested in the Food and Beverage Management (ProStart) state approved completer program.

Textbook(s): Food Nutrition and Wellness, ISBN 9780021402564

Foundations of Education
Course Code: 686003
Prerequisites: None
Credits: 1.0 Elective

This yearlong course is the foundational course for students in the Academy of Education. The Academy contains two education programs, Early Childhood Education and the Teacher Academy of Maryland. The purpose of this course is to introduce and provide a foundation for students interested in a career as a teacher. Presenting both historical and current views of teaching and education, this course encourages students to think
deeply, broadly, and systematically about the components of teaching, what teachers do, and whether teaching is an appropriate career choice for them. In the course students will develop research and theory-based views of educational history, teaching practices, various contexts of teaching and teachers, and contemporary issues related to teacher education.

Textbook(s): *Teaching*, ISBN 9781605252919

**International Culture and Cuisine**

**Course Code:** 685313  
**Prerequisites:** Food Trends & Technology  
**Credits:** 1.0 Elective  
This yearlong course is for students who wish to appreciate food as it relates to the customs, life styles, history, and traditions of various countries. Students visualize the unique characteristics of the cultures of other countries and special cultural groups within our own country. This course enables students to perceive how people use food customs to express themselves. Cultural celebrations and restaurant visits may be planned to enrich students' appreciation.


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### Career and Technical Education

#### Transportation Technology

**Work-Site Learning Technical Academy**

**Course Code:** 989001, 989002 Period 0; 989101, 989102 Period 1; 989201, 989202 Period 2; 989301, 989302 Period 3; 989401, 989402 Period 4; 989501, 989502 Period 5; 989601, 989602 Period 6; 989701, 989702 Period 7; 989801, 989802 Period 8; 989901, 989902 Period 9  
**Prerequisites:** Enrollment in or completion of a Technical Academy program  
**Credits:** 0.5 Elective  
This Technical Academy offering is an opportunity for students to earn high school credit while assigned to a work site. Students will be assisted in securing paid or unpaid employment in the industry for which they are trained and leave the high school site to report to work.

Textbook(s): None

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### Career and Technical Education

#### Advanced Technology Education

**Advanced Design Applications**

**Course Code:** 812113  
**Prerequisites:** Students in grades 11-12; Foundations of Technology is recommended  
**Credits:** 1.0 Advanced Technology Education  
This course examines specific topics in technology applications. Specifically, this course focuses on the three dimensions of technological literacy - knowledge, ways of thinking and acting, and capabilities - with the goal of students developing the characteristics of technologically literate citizens. It employs teaching/learning strategies that enable students to explore and deepen their understanding of "big ideas" regarding technology and makes use of a variety of assessment instruments to reveal the extent of understanding.

Textbook(s): Online ITEEA curriculum and resources
Engineering Design--ITEEA

Course Code: 812003

Prerequisites: Grade 11-12; Algebra 2 and Foundations of Technology highly recommended; completion of one or more Advanced Technology Education courses is highly recommended for student success in completing a capstone course.

Credits: 1.0 Advanced Technology Education

In this course engineering scope, content, and professional practices are presented through practical applications. Students in engineering teams apply technology, science, and mathematics concepts, and skills to solve engineering design problems and innovate designs. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. This course is the capstone experience for students who are interested in Technology Innovation, Design, and Engineering.

Textbook(s): Online ITEEA curriculum and resources

Information Technology Networks and Systems 1

Course Code: 867213

Prerequisites: None

Credits: 1.0 Advanced Technology Education

This first half of this course presents an in-depth exposure to computer hardware and operating systems, as well as “soft skills” related to customer interaction and service. Students learn the functionality of hardware and software components as well as suggested best practices in maintenance and safety issues. Through hands on activities and labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. This course prepares students for CompTIA's A+ certification. Students are encouraged to take the Generalized Knowledge portion of the A+ exam when they complete the first ten units of this course. After completing units 11-16 of the course, students can take the Specializations section of the A+ exam to complete the A+ Certification process.

Textbook(s): Online resources

Information Technology Networks and Systems 2

Course Code: 867223

Prerequisites: Information Technology Networks and Systems 1

Credits: 1.0 Advanced Technology Education

During the second half of the course, there is an intensive introduction to Specialization topics. Upon completion of the Information Technology Networks and Systems 2, students will demonstrate the ability to: Install the motherboard, floppy and hard drives, CD-ROM, and video cards; Install and manage of Windows 2000 and XP operating systems; Add peripherals and multimedia capabilities; Define local-area network architecture, networking protocols and the OSI Model, and TCP/IP utilities; Add peripherals and multimedia capabilities; Connect the computer to a local-area network and to the Internet; and Communicate and interact with co-workers and customers in a professional manner.

Textbook(s): Online resources
Career and Technical Education
Electives

Aerospace Technology 1
Course Code: 867923
Prerequisites: Aerospace Fundamentals
Credits: 1.0 Elective

Aerospace Technology 1 is an exploration into flight, space travel, and supporting technologies. Students will use a hands-on approach to study concepts including the history of aviation, aerodynamics, aircraft components, flight conditions, airport and flight operations, space, rocketry, and the aviation and space industries. The course is competency based and utilizes Design Processes and Software, 3D Printers, Wind Tunnels and Flight Simulators.

Textbook(s): TBA

Aerospace Technology 2
Course Code: 867953
Prerequisites: Aerospace Technology 1
Credits: 1.0 Elective

Aerospace Technology 2 is an advanced exploration of flight, space travel, and supporting technologies. Students will use a hands-on approach to study concepts including aerospace activities; aircraft design, control, safety, and maintenance; airport infrastructure; rocket technology; space systems; and living and working in the aerospace environment. The course is competency based and utilizes Design Processes and Software, 3D Printers, Wind Tunnels and Flight Simulators.

Textbook(s): TBA

Air Traffic Control Systems
Course Code: 867943
Prerequisites: Aviation History & Meteorology
Credits: 1.0 Elective

An introduction to aircraft systems, and operations. Students will learn about safety of flight, human factors, aeronautical chart interpretation, basic navigation, and introduction to air traffic control and airspace, and aviation weather factors, airplane performance, navigation, flight computers, and aeronautical decision making are covered.

Textbook(s): TBA

Engine Company Fire Ground Operations
Course Code: 988150
Prerequisites: Fire Cadet program of study student
Credits: 0.5 Fire Fighter & EMT CTE

The objective of this course is to provide the student with the fundamental principles of engine company operations and how they can be integrated during fireground operations. Upon successful completion of this course, the student will be able to describe the functions and responsibilities of the engine company and demonstrate the use of nozzles, a hose, hydrants, foam, and testing equipment during practical evolutions.

Textbook(s): Engine Company Firegrounds Operations, ISBN 9780763744953
Fire Fighter Survival and Rescue

**Course Code:** 988173  
**Prerequisites:** Fire Fighter 1  
**Credits:** 1.0 Fire Fighter & EMT CTE

Upon successful completion of this course, the student will be able to recognize and analyze dangerous conditions and learn how to keep themselves out of trouble, perform self-rescue when they find themselves in trouble, and provide rescue for other firefighters in trouble. Major topics covered in this course include firefighter safety, regulations and standards, survival and rescue mindset, rapid intervention teams, 2-in/2-out, drags and carries, ladder usage, self-rescue, wall breach, disentanglement, and large-area search. The ACE/CREDIT recommendation for this course is in the vocational certificate or the lower division baccalaureate/associate degree category, 1 semester hour in Fire Science, Fire Technology, Fire Management or Fire Administration.

Textbook(s): *Firefighter Rescue & Survival*, ISBN 9780878148295

Hazardous Materials

**Course Code:** 988143  
**Prerequisites:** Fire Cadet program of study student  
**Credits:** 1.0 Fire Fighter & EMT CTE

This course provides students with the necessary knowledge and skills to respond to hazardous materials incidents. Students will learn to categorize hazardous materials, their storage and transportation; recognize the presence of hazardous materials and the likely behavior of such materials; estimate likely harmful emergency outcomes related to hazardous materials; and select appropriate action related to hazardous materials situations. Students will know and be able to analyze a hazardous materials incident, plan an initial response, implement the response and evaluate the progress of the actions taken.

*Emergency Response Guide 2008, DOT*

Rescue Technician - Site Operations

**Course Code:** 988210  
**Prerequisites:** Fire Cadet program of study student; Fire Fighter 1  
**Credits:** 0.5 Fire Fighter & EMT CTE

This course is designed to provide students with the knowledge and skills to perform site operations, victim management, maintenance of equipment, and the selection and use of specific ropes and rigging rescue skills. Site operations include identification of support resources required for specific rescue incidents, size up of a rescue incident, management of rescue incident hazards, management of resources in a rescue incident, conducting searches, performance of ground support for helicopter activities, and termination of a technical rescue operation. Students must achieve at least a 70% on written and practical examinations in order to receive certification in this course.

Textbook(s): *High Angle Rescue Techniques*, ISBN 9781284025286

Rescue Technician Vehicle and Machinery Extrication

**Course Code:** 988220  
**Prerequisites:** Fire Cadet program of study student; Fire Fighter 1  
**Credits:** 0.5 Fire Fighter & EMT CTE

This course is designed to provide students with the knowledge and skills to perform specific rescue skills applicable to common passenger vehicles and simple machines (Level I) as well as rescue skills applicable to commercial or heavy vehicles, incidents involving complex extrication processes or multiple uncommon concurrent hazards, and incidents involving heavy machinery or more than digital entrapment (Level II). Students must achieve at least a 70% on written and practical examinations in order to receive certification in this course.

Textbook(s): *Principles of Vehicle Extrication*, IFSTA
FORENSICS

Anatomy and Physiology
Course Code: 492100
Prerequisites: Biology; Chemistry; Conceptual Physics
Credits: 0.5 Science
This course focuses on the functions of living organisms. The primary emphasis is on human functions with extensive laboratory work. The functions of cells, tissue, and organs are studied. Individual research and reading of journals is required.

Textbook(s): Hole’s Essentials of Human Anatomy and Physiology, ISBN 9780133574388

Capstone - Science
Course Code: 499000
Prerequisites: Academy student
Credits: 0.5 Elective
The capstone course is an opportunity for students to demonstrate that they have achieved the goals for learning established by their career academy program. The course culminates with students completing research on their field of study, maintaining a portfolio of work, and presenting their learning’s to a panel of experts in their career academy fields of interest.

Textbook(s): None

Forensics 1
Course Code: 434403
Prerequisites: Forensics pathway student; good attendance; Biology; Microbiology; Anatomy and Physiology
Credits: 1.0 Science
This is a one credit year long course. This course focuses on problem solving, critical thinking skills and the practices and analysis of physical evidences found at crime scenes. Students are taught the basic processes and principles of scientific thinking and techniques as applied to solving crimes. These include fingerprinting, DNA analysis, blood typing and spattering, comparative anatomy, chemical analysis of drugs, poisons, and trace evidence, and the dynamics of the Physical Sciences. Opportunities for making connections to STEM are interspersed throughout the course. Career connections are deeply embedded in each topic of study.


Forensics 2
Course Code: 434413
Prerequisites: Forensics pathway student; good attendance; Forensics 1, Forensic Law, Forensic Psychology, Biology and concurrent enrollment in Chemistry
Credits: 1.0 Elective
This year long course is offered to students in the Law, Education, and Public Service Academy’s Forensics Program Of Study. This course focuses on applications of the skills and techniques learned in Forensics 1. Students will use their knowledge, data analysis of the physical evidence and inquiry to solve crimes. Throughout the course, students will experience opportunities to make connections to NGSS, MDCCRS, STEM and real world examples of crimes under investigation. Several case studies and crime scenes will be investigated. Opportunities will also be presented on cutting edge fields such as digital forensics and cybersecurity. Students will also complete a capstone Forensics Project at the end of this course. This will include a chosen career in Forensics.

Forensic Anatomy and Physiology
Course Code: 434420
Prerequisites: Forensics pathway student; good attendance; successful completion of Forensics 1, Forensic Law, Forensic Psychology, Forensic 2, Biology, and Chemistry
Credits: 0.5 Elective
This course focuses on the structure and function of living organisms, emphasizing human physiology. This course will include intensive laboratory work exposing students to various methods of investigating biological systems. The functions of cells, tissue, and organs are studied. Students will be expected to describe how basic biological mechanisms affect normal physiology. Individual research and reading of journals are required. Projects and labs will reflect real world applications to College and Career Readiness Standards and STEM practices.
Textbook(s): Visual Anatomy and Physiology, ISBN 9780132720083

Forensic Law
Course Code: 434300
Prerequisites: Forensics pathway student; good attendance; successful completion of Forensics 1
Credits: 0.5 Elective
This semester course is recommended for 9th graders enrolled in the Forensic Sciences Program of Study in the Academy of Law, Education and Public Service. This semester course introduces students to the field of law and criminal justice through the lens of forensics. Relevant government structures, court cases, and documents will be analyzed to understand how the field of forensics has contributed local, state, and federal jurisprudence. The skills and competencies utilized in the field will be examined. Contemporary issues, such as interpreting forensic evidence and the use of expert witnesses, will be explored. This course is interdisciplinary in nature and supports developing college and career readiness skills while introducing students to relevant careers. Relevant STEM connections, guest speakers and field trips are also included.
Textbook(s): Criminal Justice In Action (2013), ISBN 9781111835576

Forensic Psychology
Course Code: 434400
Prerequisites: Forensics pathway student; good attendance; Successful completion of Forensic 1 and Forensic Law
Credits: 0.5 Elective
This semester course is recommended for 9th graders enrolled in the Forensic Sciences Program of Study in the Academy of Law, Education and Public Service. Through an inquiry approach, this course will introduce students to psychological research, concepts of human behavior, and their applications in forensic science. Course topics include research methodologies, biological bases of behavior, developmental psychological impact, learned behaviors, intelligence, personality development, and psychological pathologies. This course is interdisciplinary in nature and supports developing college and career readiness skills while introducing students to relevant careers. Relevant STEM connections, guest speakers and field trips are also included.
Textbook(s): Psychology: Principles in Practice, ISBN 9780554004013

Microbiology
Course Code: 440200
Prerequisites: Biology, Chemistry, Integrating the Sciences
Credits: 0.5 Science
This course is designed for those students who want to study microorganisms and their activities. It is concerned with the form, structure, reproduction, physiology, metabolism and identification of microbes. It includes the study of their distribution in nature, their relationship to each other and other living things, their effects on humans, and changes they make in their environment. The technical aspects of lab work are emphasized.
Textbook(s): Microbiology, a Human Perspective, ISBN 9780073522593
**PRE-LAW AND SOCIAL JUSTICE**

**Capstone - Social Studies**

Course Code: 299000  
Prerequisites: Pre-Law and Social Justice pathway student good attendance;  
successful completion of Practical Law, LEPS Debate, Civil Rights Law, Criminal and Constitutional Law, Law Writing and Research, Law Seminar, and Philosophy  
Credits: 0.5 Elective  
The capstone course is an opportunity for students to demonstrate that they have achieved the goals for learning established by their career academy program. The course culminates with students completing research on their field of study, maintaining a portfolio of work, and presenting their learning’s to a panel of experts in their career academy fields of interest.

Textbook(s): None

**Civil Rights Law**

Course Code: 291200  
Prerequisites: Pre-Law and Social Justice pathway student; good attendance;  
successful completion of Practical Law, LEPS Debate, Civil Rights Law, Criminal and Constitutional Law, Law Writing and Research, Law Seminar, and Philosophy  
Credits: 0.5 Elective  
This course will survey the history of civil rights laws and issues with a strong focus on disenfranchised groups in society. The development of civil rights law will be explored by studying a number of legal doctrines through case studies about topics such as housing, public accommodation, education, employment, voting, and the criminal justice system. The course will examine the development of constitutional doctrines such as anti-discrimination, color blindness, and anti-subservience to determine if these doctrines satisfy the evolving aspiration of the attainment of rights.

Textbook(s): *We the Students: Supreme Court Cases for and about Students*, ISBN 9780872897601

**Constitutional and Criminal Law**

Course Code: 291100  
Prerequisites: Pre-Law and Social Justice pathway student; good attendance;  
successful completion of Practical Law, LEPS Debate, and Civil Rights Law  
Credits: 0.5 Elective  
This course will provide an introduction to American constitutional law with an emphasis on U.S. Supreme Court decisions. The course will explore various forms of constitutional interpretation and types of constitutional analysis. Topics will include the role of the judiciary in reviewing acts of the political branches of government; the separation of powers and relations among the three branches of the federal government; the powers of the national government and federalism-based limits on Congress and the states; and individual constitutional rights. The course will also explore the traditional and contemporary doctrines of substantive criminal law, with focus on such issues as theories of punishment, the formal elements of criminal culpability, the theory and degrees of homicide, criminal causation, accessorial and vicarious liability, conspiracy, and defenses of excuse and justification.

Textbook(s): *Youth Justice in America*, ISBN 9781568029863  
Dual Credit: Earning credit for CJT 1510 Introduction to Criminal Justice at Prince George’s Community College makes a student eligible for 291120 Constitutional Law DE credit.
Law Seminar

Course Code: 281910
Prerequisites: Law and Social Justice pathway student good attendance; Successful completion of Practical Law, LEPS Debate, Civil Rights Law, Criminal and Constitutional Law, and Law Writing and Research
Credits: 0.5 Elective

Law Seminar is designed to prepare students for the senior year internship program. Students will engage in hands-on simulations and research possible areas of interest within the field of law and law-related careers. The curriculum and related material address basic employment readiness competencies such as Basic Communication, Community Resources, Government and Law, Learning and Thinking Skills.

Textbook(s): Yes, You Can Become A Lawyer: A High School Student Toolkit (PGCPS locally developed curriculum)

Law, Writing and Research

Course Code: 281900
Prerequisites: Law and Social Justice pathway student good attendance; Successful completion of Practical Law, LEPS Debate, Civil Rights Law, Criminal and Constitutional Law, and Law Seminar
Credits: 0.5 Elective

Law, Writing and Research is a course in the Pre-Law and Social Justice Program of Study designed to teach students how to think logically and translate their thoughts into well-constructed legal arguments, while improving their knowledge and skills to participate competently and responsibly in the American political and legal system. Students will learn how to conceive and structure legal themed research. Locate and analyze sources, and develop legal arguments based on and supported by research. Students will also develop the essential skills of legal research, writing, and analysis by completing an in-depth project addressing issues important to them and their community. Volunteers from the legal and criminal justice community will work with and mentor students in researching and developing their advocacy issue through interviews and field experiences.


Dual Credit: Earning credit for PAR 1510 Introduction to Law for the Paralegal at Prince George’s Community College makes a student eligible for 281930 Law, Writing, and Research DE credit.

LEPS Debate

Course Code: 291000
Prerequisites: Law and Social Justice pathway student good attendance; Successful completion of Practical Law
Credits: 0.5 Elective

This course is designed for students who are interested in careers in law, education, and public service (LEPS). The course will provide systematic strategies to increase critical thinking and to form arguments. Arguers will seek to gain the acceptance of others for their point of view. The course will address the art of asking the “right” questions, deliberating reason, obtaining useful data as it relates to the real issues and identifying when an arguer evades it, and offering critical opinions based on those evaluations.

Textbook(s): You Decide! Current Debates in Contemporary Moral Philosophy, ISBN 9781256756682
Practical Law
Course Code: 290700
Prerequisites: Academy student
Credits: 0.5 Elective

This semester course is designed to provide seniors and selected juniors an opportunity to pursue their interest in practical aspects of the law. The course will provide a framework for the county's mock trial program and will involve participation by the Bar Association and law enforcement agencies. The course provides practical information and problem-solving opportunities necessary for survival in our society. The course includes role-playing, small group activities, opinion polls, and visual analysis experiences as well as mock trials.

Textbook(s): Street Law: A Course in Practical Law, 9780078799839

Career and Technical Education
Technology Education

Advanced Placement Computer Science
Course Codes: 867363
Prerequisites: Foundations of Computer Science recommended
Credits: 1.0

CSP aims to develop computational thinking, generate excitement about career paths that use computing, and introduce professional tools that foster creativity and collaboration. The course also aims to build students' awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course aims to engage students to consider issues raised by the present and future societal impact of computing. Students use Python® as a primary tool and incorporate multiple platforms and languages for computation. Students practice problem solving with structured learning experiences and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

Textbook(s): TBD

Foundations of Technology
Course Code: 842003
Prerequisites: None
Credits: 1.0 Technology Education

This course uses engineering design activities to help students understand how criteria, constraints, and processes affect design solutions and provide students with skills to systematically assess technological developments or solutions. Course topics may include brainstorming, visualizing, modeling, simulating, constructing, testing, and refining designs.

Textbook(s): None

Foundations of Computer Science
Course Code: 867303
Prerequisites: None
Credits: 1.0 Technology Education

The Foundations of Computer Science course is designed to provide students with the breadth of computer science. Students are introduced to a broad base of computer science topics including website development, programming, processing languages, robotics, and CyberSecurity. In addition to laying the groundwork for
Advanced Placement courses in computer science, students will engage in activities designed to develop problem solving skills and gain understanding of CyberSecurity principles necessary for 21st century careers. Textbook(s): TBA

**Foundations of Technology Online**

**Course Code:** 789013  
**Prerequisites:** None  
**Credits:** 1.0 Technology Education  
This course uses engineering design activities to help students understand how criteria, constraints, and processes affect design solutions and provide students with skills to systematically assess technological developments or solutions. Course topics may include brainstorming, visualizing, modeling, simulating, constructing, testing, and refining designs. Textbook(s): TBA

**Foundations of Technology S/T**

**Course Code:** 842093  
**Prerequisites:** None  
**Credits:** 1.0 Tech Education High School Graduation Credit  
This course uses engineering design activities to help students understand how criteria, constraints, and processes affect design solutions and provide students with skills to systematically assess technological developments or solutions. Course topics may include brainstorming, visualizing, modeling, simulating, constructing, testing, and refining designs. Textbook(s): TBA

**Dance**

*Depending on staffing and facilities, a school may offer dance courses. These courses are for fine arts credit only. They are not eligible for physical education credit.*

**Dance 1A**

**Course Code:** 721200  
**Prerequisites:** None  
**Credits:** 0.5 Fine Arts  
This semester course focuses on the fundamentals of dance through terminology and the practice of dance technique at a beginning level. A variety of dance forms are offered ranging from Ballet, Modern, Jazz, Tap, Folk, Social and World dance forms. Dance theory is taught through the application of vocabulary, history, beginning principles of choreography, and observation of live and filmed/videotaped performances. Performance components beyond the regular school day are required. 

**Dance 1B**

**Course Code:** 721300  
**Prerequisites:** Dance 1A  
**Credits:** 0.5 Fine Arts  
This semester course focuses on the refinement of dance technique and expansion of existing dance vocabulary. More physical demands are placed on students to spur the growth of dance technique. Dance theory is further
expanded through vocabulary, history, principles of choreography, and the application of dance criticism. Performance components beyond the regular school day are required.


Dance 2A
Course Code:  721400
Prerequisites:  Dance 1B
Credits:  0.5 Fine Arts
This course is for the student who has passed the prerequisites of Dance IA & IB or for the student who seeks higher placement because of previous dance training. Acceleration for class placement will be based on an interview, auditions and permission granted by the instructor. This class will provide continued expansion and refinement of dance vocabulary and technical skills. Dance combinations will become longer in length and more technically challenging, with emphasis on improving musicality and performance presence. The principles of dance vocabulary, history, choreography and criticism are expanded at this level. Performance components beyond the regular school day are required.


Dance 2B
Course Code:  721500
Prerequisites:  Dance 2A
Credits:  0.5 Fine Arts
This semester course is for the student who has completed the prerequisites for class placement. A student with previous training may be granted an advanced placement after an interview, audition and recommendation of the instructor. The student will continue to expand upon dance vocabulary and technique by experiencing combinations that are more intricate in the use of variations in space, time, and force. The students will begin to refine performance presence and continue to refine dance technique. Dance theory is increased through new vocabulary, history, choreographic principles and the criticism process. Performance components beyond the regular school day are required.


Dance 3A
Course Code:  722200
Prerequisites:  Dance 2B
Credits:  0.5 Fine Arts
This semester course is for the student who has met the prerequisite or for the student who seeks higher-class placement through an interview, audition, and recommendation of the instructor. At this level the emphasis is on the development of proficiency in the execution of dance technique, increased dance literacy, and improvement of performance. Principles of the choreographic structure will be applied and the criticism process will integrate subjective and objective response to dance performance and choreographic analysis. Performance components beyond the regular school day are required.

Dance 3B
Course Code: 722300
Prerequisites: Dance 3A
Credits: 0.5 Fine Arts
This semester course is designed to provide the Low Intermediate and Intermediate student with technically challenging work that will refine proficiency in the areas of dance discipline, technique, and performance. The application of dance vocabulary, history, criticism, and a choreographic process will be continuously refined. Performance components beyond the regular school day are required.

Dance 4A
Course Code: 722400
Prerequisites: Dance 3B
Credits: 0.5 Fine Arts
This semester course is for the Low Intermediate to Advanced student who is committed to the study of dance, and has the self-discipline to refine dance technique, and become more aware of dance kinesthetic, and dance aesthetics. The theory of choreographic principles, history, and criticism are continued, but the application of dance performance and choreographic development is strongly emphasized at this level. Performance components beyond the regular school day are required.

Dance 4B
Course Code: 722500
Prerequisites: Dance 4A
Credits: 0.5 Fine Arts
This semester course will continue to sharpen the skills of dance literacy, technique, and performance and expand the accumulated knowledge of history, anatomy, choreographic performance, interpretation, and dance expression at this level. The student will have the dance knowledge to construct an ensemble dance or solo for performance. Performance components beyond the regular school day are required.

Dance for Athletes 1
Course Code: 708100
Prerequisites: None
Credits: 0.5 Fine Arts Credit
This course focuses on enhancing and refining athletic performance through an integration of movement, fitness and conditioning techniques to provide physical training to athletes through the art of Dance. This class is for those students wishing to use dance training to enhance their athletic performance. Student originated performance projects occur at these levels and are performed as an assessment during an in-class informal performance. No audition is required.
Dance for Athletes 2
Course Code: 708110
Prerequisites: Dance for Athletes 1
Credits: 0.5 Fine Arts Credit
This course emphasizes continued skill development and refinement of proper body alignment, coordination, flexibility, agility and discipline through learning higher level movement patterns and skills. Student originated performance projects occur at these levels and are performed as an assessment during an in-class informal performance. No audition is required.

Dance Repertory 2
Course Code: 706913
Prerequisites: Dance Teacher Recommendation and Audition
Credits: 1.0 Fine Arts
This course emphasizes increased technical proficiency in dance forms progressing toward focus on dance as a performing art and means of communication. Students continue to increase knowledge of dance history, theory, choreography and criticism. The student will demonstrate the ability to work as an ensemble to develop respectful and cooperative personal skills. This is an ELECTIVE course by invitation and dance teacher recommendation. Students must be concurrently enrolled in a PGCPS Dance Technique class (Dance 2A, 2B).
Textbook(s): None

Dance Repertory 3
Course Code: 706923
Prerequisites: Dance Teacher Recommendation and Audition
Credits: 1.0 Fine Arts
Dance Repertory III classes have a performance emphasis and goal-based with students involved in research, choreography, and every aspect of dance production. Technical proficiency, academic knowledge, continued improvement and growth in dance, and public dance performances are expected. The student will demonstrate the ability to work as an ensemble to develop respectful and cooperative personal skills. Student must be concurrently enrolled in a PGCPS Dance Technique class (Dance 3A, 3B).
Textbook(s): None

Dance Repertory 4
Course Code: 706933
Prerequisites: Dance Teacher Recommendation and Audition
Credits: 1.0 Fine Arts
Dance students will extend their knowledge of the art form by participating in choreographed dance composition. The dance students will formulate and use multiple sets of criteria to critique personal performances, improvised and choreographed, and the performances of others composing and choreographing dance pieces. The student will demonstrate the ability to work as an ensemble to develop respectful and cooperative personal skills. Student must be concurrently enrolled in a PGCPS Dance Technique class (Dance 4A, 4B).
Textbook(s): None

Repertory
Course Code: 706903
Prerequisites: Dance Teacher Recommendation and Audition
Credits: 1.0 Fine Arts
This course is an introduction to group dance experiences through rehearsal, performance, dance technique
training and technical theatre practice. The students will be involved in creating and reviving diverse repertory of a chosen choreographer(s). Students perform in this style in the winter and/or spring performances. Students must be concurrently enrolled in a PGCPS Dance Technique class (Dance 1A, 1B).

Textbook(s): None

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**Prince George's County Public Schools and Prince George’s Community College Dual Credit Course List**

For the PGCC courses listed below, students will earn both high school and college credit.

<table>
<thead>
<tr>
<th>PGCC Course</th>
<th>PGCPS Dual Enrollment Course #</th>
<th>PGCPS High School graduation credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGL 1010 Composition I: Expository Writing</td>
<td>106513 English 12 DE</td>
<td>1.0 English 12 credit</td>
</tr>
<tr>
<td>SPH 1010 Introduction to Speech</td>
<td>122303 Speech Interpersonal Communications DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>FRN 1010 French for Beginners</td>
<td>152013 French 1 DE</td>
<td>1.0 World Language Level 1 credit</td>
</tr>
<tr>
<td>FRN 1020 French for Advanced Beginners</td>
<td>155013 French 2 DE</td>
<td>1.0 World Language Level 2 credit</td>
</tr>
<tr>
<td>FRN 2010 Intermediate French</td>
<td>156013 French 3 DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>FRN 2020 Intermediate French II</td>
<td>157013 French 4 DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>SPN 1010 Spanish for Beginners</td>
<td>162013 Spanish 1 DE</td>
<td>1.0 World Language Level 1 credit</td>
</tr>
<tr>
<td>SPN 1020 Spanish for Advanced Beginners</td>
<td>165013 Spanish 2 DE</td>
<td>1.0 World Language Level 2 credit</td>
</tr>
<tr>
<td>SPN 2010 Intermediate Spanish</td>
<td>166013 Spanish 3 DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>SPN 2020 Intermediate Spanish</td>
<td>167013 Spanish 4 DE</td>
<td>1.0 elective credit</td>
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<tr>
<td>POS 1010 American National Government</td>
<td>212210 LSN Government 1 DE</td>
<td>.50 Local State and National Government credit</td>
</tr>
<tr>
<td>POS 1020 Local and State Government</td>
<td>213310 LSN Government 2 DE</td>
<td>.50 Local State and National Government credit</td>
</tr>
<tr>
<td>HST 1310 Ancient and Medieval History</td>
<td>261110 World History 1 DE</td>
<td>.50 World History credit</td>
</tr>
<tr>
<td>HST 1320 Modern History</td>
<td>261210 World History 2 DE</td>
<td>.50 World History credit</td>
</tr>
<tr>
<td>HST 1410 History of the United States I</td>
<td>262010 US History Pt 1 DE</td>
<td>.50 United States History credit</td>
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<tr>
<td>HST 1430 History of the United States II</td>
<td>262020 US History Pt 2 DE</td>
<td>.50 United States History credit</td>
</tr>
<tr>
<td>PAR 1510 Introduction to Law for the Paralegal</td>
<td>281930 Law, Writing, and Research DE</td>
<td>.50 elective credit</td>
</tr>
<tr>
<td>HST 2310 History of American Foreign Policy</td>
<td>290410 Foreign Policy Issues DE</td>
<td>.50 elective credit</td>
</tr>
<tr>
<td>PGCC Course</td>
<td>PGCPS Dual Enrollment Course #</td>
<td>PGCPS High School graduation credit</td>
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<tr>
<td>SOC 1010 Introduction to Sociology</td>
<td>290630 Sociology DE</td>
<td>.50 elective credit</td>
</tr>
<tr>
<td>CJT 1510 Introduction to Criminal Justice</td>
<td>291120 Constitutional Law DE</td>
<td>.50 elective credit</td>
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<tr>
<td>MAT 1190 Probability</td>
<td>373113 Probability and Statistics DE</td>
<td>1.0 Mathematics credit</td>
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<tr>
<td>MAT 1140 Introduction to Statistics</td>
<td>374000 Introduction to Statistics DE</td>
<td>.50 Mathematics credit</td>
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<tr>
<td>MAT 1350 College Algebra</td>
<td>381003 College Algebra DE</td>
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<tr>
<td>MAT 1360 Trigonometry and Analytic Geometry</td>
<td>381013 Trig and Analytic Geometry DE</td>
<td>1.0 Mathematics credit</td>
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<tr>
<td>MAT 1370 Precalculus</td>
<td>381043 PreCalculus DE</td>
<td>1.0 Mathematics credit</td>
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<td>MAT 2410 Calculus 1</td>
<td>380023 Calculus AB DE</td>
<td>1.0 Mathematics credit</td>
</tr>
<tr>
<td>MAT 2420 Calculus 2</td>
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<td>MAT 2430 Calculus 3</td>
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</tr>
<tr>
<td>MAT 2460 Differential Equations</td>
<td>396010 Differential Equations DE</td>
<td>.50 Mathematics credit</td>
</tr>
<tr>
<td>BIO 1010 General Biology</td>
<td>420413 Biology DE</td>
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</tr>
<tr>
<td>BIO 1110 Environmental Biology</td>
<td>491213 Environmental Science DE</td>
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</tr>
<tr>
<td>BMT 1010 Business Management</td>
<td>553243 Principles of Business Administration and Management DE</td>
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<tr>
<td>BIO 1100 Introduction to Forensic Biology</td>
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</tr>
<tr>
<td>PHY 1010 Introductory Physics</td>
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<td>BIO 2010 Microbiology</td>
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</tr>
<tr>
<td>BIO 2050 Human Anatomy and Physiology I</td>
<td>492110 Anatomy and Physiology DE</td>
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</tr>
<tr>
<td>PSC 1210 Exploring Earth and Space Science</td>
<td>493013 Earth and Space Science DE</td>
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<tr>
<td>ACC 2001 Principles of Accounting I</td>
<td>511200 Principles of Accounting DE</td>
<td>.50 Finance-NAF credit</td>
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<tr>
<td>INT 2140 Problem Solving with Spreadsheets</td>
<td>553153 Office Systems Management 1 DE</td>
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</tr>
<tr>
<td>INT 1330 Integrated Applications</td>
<td>553163 Office Systems Management 2 DE</td>
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</tr>
<tr>
<td>ART 1010 Introduction to Art</td>
<td>612210 Basic Design DE</td>
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</tr>
<tr>
<td>ART 1570 Introduction to Computer Graphics</td>
<td>619513 Computer Graphics 2 DE</td>
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<td>MUS 1010 Music Appreciation</td>
<td>645113 Music Survey DE</td>
<td>1.0 Fine Arts credit</td>
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<tr>
<td>HLE 1150 Personal and Community Health</td>
<td>744210 Health Issues DE</td>
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<tr>
<td>HLE 2300 Integrated Health and Physical Education</td>
<td>744210 Health Issues DE</td>
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<tr>
<td>CUL 1100 Introduction to Culinary Arts</td>
<td>684633 Intro Culinary DE</td>
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</tr>
<tr>
<td>TED 2000 Foundations of Curriculum Education</td>
<td>689413 Found of Curriculum DE</td>
<td>1.0 Teacher Academy credit</td>
</tr>
<tr>
<td>PGCC Course</td>
<td>PGCPS Dual Enrollment Course #</td>
<td>PGCPS High School graduation credit</td>
</tr>
<tr>
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<td>--------------------------------</td>
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<tr>
<td>PED 1030 Lifetime Fitness and Leisure Activities</td>
<td>718000 Personal Fitness 1 DE</td>
<td>.50 Physical Education credit</td>
</tr>
<tr>
<td>NTR 1010 Introduction to Nutrition</td>
<td>684013 Clinical Nutrition DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>TRF 1330 Television Production I</td>
<td>760123 Television Production 1 DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>INT 1010 Introduction to Information Technology (A+ Cert)</td>
<td>864333 Introduction to Information Technology DE</td>
<td>1.0 Technology Education credit</td>
</tr>
<tr>
<td>INT 1111 Programming Logic and Design</td>
<td>867333 Foundations of Computer Science DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>INT 1450 CCNA 1: Network Fundamentals</td>
<td>886543 CCNA Networking DE</td>
<td>1.0 IT Systems Engineering Credit</td>
</tr>
<tr>
<td>INT 1460 CCNA 2: Routing Protocols</td>
<td>886553 CCNA Routing DE</td>
<td>1.0 IT Systems Engineering Credit</td>
</tr>
<tr>
<td>INT 1700 Understanding Operating Systems</td>
<td>886583 Systems Engineering 1 DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>INT 1540 Computer Hardware I: A+ Prep</td>
<td>898883 IT Essentials 1 DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>INT 2540 Computer Hardware II: A+ Prep</td>
<td>898893 IT Essentials 2 DE</td>
<td>1.0 elective credit</td>
</tr>
</tbody>
</table>

**Prince George’s County Public Schools and Bowie State University Dual Credit Course List**

For the Bowie State University courses listed below, students will earn both high school and college credit.

<table>
<thead>
<tr>
<th>BSU Course</th>
<th>BSU Dual Enrollment Course #</th>
<th>PGCPS High School graduation credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 Expository Writing</td>
<td>106513 English 12 DE</td>
<td>1.0 English 12 credit</td>
</tr>
<tr>
<td>COMM 101 Oral Communications</td>
<td>122113 Speech 1 DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>BIO 101 Biological Science</td>
<td>420413 Biology DE</td>
<td>1.0 Science credit</td>
</tr>
<tr>
<td>CHEM 107 General Chemistry I</td>
<td>430033 Chemistry DE</td>
<td>1.0 Science credit</td>
</tr>
<tr>
<td>COMM 103 Public Speaking</td>
<td>122123 Speech 2 DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>COSC 112 Computer Science I</td>
<td>Intro to Computer Science DE</td>
<td>1.0 elective credit</td>
</tr>
<tr>
<td>PHSC 101 Earth Science I</td>
<td>493013 Earth Space Sci DE</td>
<td>1.0 Science credit</td>
</tr>
<tr>
<td>ANTH 102 Introduction to Anthropology</td>
<td>290640 Anthropology DE</td>
<td>.50 elective credit</td>
</tr>
<tr>
<td>GEOG 101 Element of Geography I</td>
<td>291510 Geography DE</td>
<td>.50 elective credit</td>
</tr>
<tr>
<td>HIST 114 African American History to 1865</td>
<td>234020 African Am Stud 1 DE</td>
<td>.50 elective credit</td>
</tr>
<tr>
<td>HIST 115 African American History from 1865</td>
<td>234030 African Am Stud 2 DE</td>
<td>.50 elective credit</td>
</tr>
<tr>
<td>BSU Course</td>
<td>BSU Dual Enrollment Course #</td>
<td>PGCPS High School graduation credit</td>
</tr>
<tr>
<td>------------------------------------------------</td>
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<td>--------------------------------------</td>
</tr>
<tr>
<td>PHIL 101 Introduction to Philosophy</td>
<td>290710 Intro Philosophy DE</td>
<td>.50 elective credit</td>
</tr>
<tr>
<td>PHIL 103 Introduction to the Principles of Reasoning</td>
<td>290720 Intro Reasoning DE</td>
<td>.50 elective credit</td>
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<tr>
<td>PSYC 101 General Psychology</td>
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</tr>
<tr>
<td>SOCI 101 Introduction to Sociology</td>
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<tr>
<td>MATH 118 Finite Mathematics</td>
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<tr>
<td>MATH 126 Precalculus</td>
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<td>MATH 1350 Pre-Calculus 1: College Algebra</td>
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<tr>
<td>MATH 1360 Pre-Calculus 2: Trigonometry and Analytic Geometry</td>
<td>381040 PreCalculus 2: Trigonometry and Analytic Geometry</td>
<td>.50 Mathematics credit</td>
</tr>
<tr>
<td>MATH 155 Intro to Probability &amp; Statistics</td>
<td>373113 Probability and Statistics DE</td>
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<tr>
<td>MAT-1140 Introduction to Statistics</td>
<td>373020 Statistics DE</td>
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</tr>
<tr>
<td>MAT-1160 Elements of Probability and Statistics</td>
<td>373020 Probability and Statistics DE</td>
<td>.50 Mathematics credit</td>
</tr>
<tr>
<td>MATH 232 Multivariable Calculus</td>
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<td>.50 Mathematics credit</td>
</tr>
<tr>
<td>MATH 300 Differential Equations</td>
<td>Differential Equations DE</td>
<td>.50 Mathematics credit</td>
</tr>
</tbody>
</table>

**Electives**

**Academic Internship**

**Course Code:** 055001, 055002, 055003; 055101, 055102, 055103 Period 1; 055201, 055202, 055203 Period 2; 055301, 055302, 055303 Period 3; 055401, 055402, 055403 Period 4; 055501, 055502, 055503 Period 5; 055601, 055602, 055603 Period 6; 055701, 055702, 055703 Period 7; 055801, 055802, 055803 Period 8; 055901, 055902, 055903 Period 9

**Prerequisites:** Teacher Approval

**Credits:** 0.5, 1.0 Elective

The Academic Internship course provides students enrolled in an academic program of study with an opportunity to extend and apply classroom content in real-life situations through experiential learning. Students may be placed at a variety of paid or unpaid sites at non-profit agencies, corporations, government or policy institutes. The placements should be closely related to and designed to enhance their academic and career pursuits. Under the supervision of a classroom teacher, guidance counselor or other administrative official, the student interns will observe, explore, and discuss solutions to authentic problems as well as perform routine tasks. They will also maintain journals of their work experiences, design projects or other career related activities as identified by their Academic Internship teacher.

**Textbook(s):** None
**Advanced Military Science and Leadership Laboratory**

*Course Code:* 999953  
*Prerequisites:* Military Science I and II; Leadership Education and Training I and II  
*Credits:* 1.0 Elective

Workplace Experience course designed to provide students with an opportunity to explore careers within the fields of military science. Supported by project based learning, students will extend their understanding on topics including financial literacy, employability skills, and college and career readiness through online resources provided by the Department of Defense.

Textbook(s): Online resources

**Advanced Placement Computer Science Principles**

*Course Code:* 867363  
*Prerequisites:* Algebra I; Foundations of Computer Science recommended  
*Credits:* 1.0 Elective

CSP aims to develop computational thinking, generate excitement about career paths that use computing, and introduce professional tools that foster creativity and collaboration. The course also aims to build students’ awareness of the tremendous demand for computer specialists and for professionals in all fields who have computational skills. Each unit focuses on one or more computationally intensive career paths. The course aims to engage students to consider issues raised by the present and future societal impact of computing. Students use Python® as a primary tool and incorporate multiple platforms and languages for computation. Students practice problem solving with structured learning experiences and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. Textbook(s): Online resources

**AP Capstone Research**

*Course Code:* 010023  
*Prerequisites:* AP Capstone Seminar  
*Credits:* 1.0 Elective

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.  
Textbook(s): TBA

**AP Capstone Seminar**

*Course Code:* 010033  
*Prerequisites:* Advanced Placement student  
*Credits:* 1.0 Elective

AP Seminar is a year-long course that has students investigate real-world issues from multiple perspectives. Students learn to synthesize information from different sources, develop their own lines of reasoning in research-based written essays, and design and deliver oral and visual presentations,
both individually and as part of a team.
Textbook(s): TBA

**AVID Elective**

**Course Code:** 590903, 591003, 591103, 591203

**Prerequisites:** AVID student selection based on:
- Academic potential (2.0 to 3.5 GPA as one indicator)
- Those who would benefit from AVID support to improve their academic record and begin college preparation
- Criteria set in individual school’s recruitment plan including application, interview and/or student contract

**Credits:** 1.0 Elective

This college preparatory elective course is offered to identified Advancement Via Individual Determination (AVID) students to reinforce organizational and study skills, critical thinking, inquiry, and collaboration. Students receive academic help from peers and college tutors, and participate in enrichment and motivational activities that make college access possible.

Textbook(s): AVID Curriculum: Strategies for Success, College and Careers

**AVID Elective Course for Tutors**

**Course Code:** 591303

**Prerequisites:** Teacher placement

**Credits:** 1.0 Elective

The Advancement Via Individual Determination (AVID) College preparatory elective course is offered to identified AVID students to reinforce organizational and study skills, critical thinking, inquiry, and collaboration. Students receive academic help from peers and academic tutors, and participate in enrichment and motivational activities that make college access possible. The AVID Academic Tutor will lead the tutorial process with emphasis on Socratic seminars and collaboration.

Textbook(s): None

**CoAcademic Nutrition**

**Course Code:** 681500

**Prerequisites:** Students must meet the requirements as mandated by Senate Bill 740

**Credits:** 0.5 Elective

Addresses basic information about essential nutrients and their functions in the body as well as known and hypothesized relationships between long-term diets and development of chronic diseases. The course addresses current issues in nutrition and food safety research. Course content includes current issues in weight management, interactions between nutritional status and physical fitness, and food safety.


**College Summit 9**

**Course Code:** 135010, 135023

**Prerequisites:** 9th Grade student

**Credits:** 0.5 - 1.0 Elective

In this course students understand how to be successful in high school. They will focus on transcript dissection with an emphasis on credit accumulation, developing communication skills, decision-making, setting short term goals, identifying the different types of learning styles and test-taking strategies, and learning how an interest can be become a college major and translate into a career.
**Textbook(s):** *Clean Slate*, College Summit, Inc.

**College Summit 10**

**Course Code:** 135020, 135013  
**Prerequisites:** 10th Grade student  
**Credits:** 0.5 - 1.0 Elective  
In this course students understand the connection between college and career and explore postsecondary options, setting long term and career goals, identify career paths/clusters, identify types of standardized tests and the financial connection between post-secondary training, career choice and future lifestyle.

**Textbook(s):** *Speak Up!*, College Summit, Inc.

**College Summit 11**

**Course Code:** 135033  
**Prerequisites:** 11th Grade student  
**Credits:** 1.0 Elective  
The purpose of the College Summit 11 class is to prepare juniors for a successful senior year and life after high school, including the college application process and employment opportunities. Students begin to identify and articulate their plans for post-secondary activity (college attendance, work, military, apprenticeship, etc.) and students begin to draft personal statements, action plans, a college list, recommendations, and resumes that will enable them to gain acceptance into the post-secondary program/activity of their choice. Students learn how to effectively advocate for themselves and how to promote their personal strengths. Students are guided to register and prepare for college admittance exams such as SAT and ACT as well as the PSAT/NMSQT.

**Textbook(s):** *Take Action!*, College Summit, Inc.

**College Summit**

**Course Code:** 135003  
**Prerequisites:** Approval from Principal and College Summit Advisor or Coordinator  
**Credits:** 1.0 Elective  
The purpose of the College Summit class is to prepare seniors for successful life after high school, including the college application process and employment opportunities. Students identify and articulate their plans for post-secondary activity (college attendance, work, military, apprenticeship, etc.) and develop a Senior Portfolio of materials (college application, personal statement, action plan, college list, recommendations, scholarship application, job application, etc.) that will enable them to gain acceptance into the post-secondary program/activity of their choice. Students learn how to effectively advocate for themselves and how to promote their personal strengths. Students gain access to personalized technology tools and receive their own book/planner that provides direction for navigating the post-secondary planning process.

**Textbook(s):** College Summit Navigator
Concurrent Enrollment College and High School

Course Code: Credit: 050101, 050102 Period 1; 050201, 050202 Period 2; 050301, 050302 Period 3; 050401, 050402 Period 4; 050501, 050502 Period 5; 050601, 050602 Period 6; 050701, 050702 Period 7; 050801, 050802 Period 8

No Credit: 051101, 051102 Period 1; 051201, 051202 Period 2; 051301, 051302 Period 3; 051401, 051402 Period 4; 051501, 051502 Period 5; 051601, 051602 Period 6; 051701, 051702 Period 7; 051801, 051802 Period 8

Prerequisites: Approval from Principal and Director of Curriculum and Instruction

Credits: 0 - 0.5 Elective

A student may take courses at his/her home school as well as take additional courses at a post-secondary school. College credits for courses not offered at high school may be applied toward high school graduation requirements with prior approval from the principal and Director of Curriculum and Instruction. Students may carry more than eight courses, but must meet the college entrance requirements for concurrent enrollment and must receive approval from the principal to do so. To begin the process, the student should consult with his or her school counselor.

Textbook(s): TBA

Enrichment

Course Code: 570520
Prerequisites: None
Credits: 0.00 Elective

This is a no credit period that will be used either to build the skills of those students who have knowledge gaps based on achievement data or to provide enriching opportunities that are of unique interest to students.

Textbook(s): None

Intervention

Course Code: 570510
Prerequisites: None
Credits: 0.00 Elective

This is a no credit course that will be used either to build the skills of those students who have knowledge gaps based on achievement data or to provide enriching opportunities that are of unique interest to students.

Textbook(s): None

Peer Group Connection

Course Code: 056103
Prerequisites: Students at Fairmont, Friendly, and Potomac HS who are on track to graduate on time
Credit: 1.0 Elective

The Center for Supportive Schools is excited to bring our nationally recognized, research-based, school-based, peer-to-peer mentoring model, Peer Group Connection (PGC). PGC is a leadership development and transitional support initiative that leverages the power of older students in high school (11th and 12th graders) to support the transitional needs of students entering high school (9th graders).

Textbook(s): None
Workplace Learning 9

Course Code: 984003  
Prerequisites: P-TECH Student  
Credits: 1.0 Elective

A hallmark of the P-TECH approach is the deliberate focus on the three facets of student capabilities needed for success in the labor force – the acquisition of academic, technical and workplace/professional skills. Through workplace learning activities students build awareness of potential careers in a particular industry and are able to explore options and start preparing for their future. Workplace learning provides opportunities for hands-on learning and the development of relationships with professional adult role models. Students acquire experience and build professional workplace and occupational skills while learning about the training or education. This course provides a continuum of work-based learning skills.

Textbook(s): None

ENGLISH

English 9

Course Code: 103903, 103933, 103943, 103973, 103983, 103293  
Prerequisites: Successful completion of full-year Reading English Language Arts 8  
Credits: 1.0 English

This course is designed to move students towards mastery of the grade level English Language Arts Maryland College and Career Readiness Standards. Students will read complex texts that are fictional and informational. Students will read closely to analyze texts to prepare for writing tasks that include Literary Analysis, Narrative Analysis, and Research Simulation. Students will also develop skills in language and speaking and listening.

103973 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

103983 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program;

103933- Supported Inclusion - This course is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs.

103293 - Honors

103393 Pre-Diploma Program - Prerequisites: International Baccalaureate Program Admission; Placement should be based on the following criteria (It is recommended that 3 of the 6 following criteria be met): Successful completion of full-year RELA English Grade 8 Honors; Teacher Recommendation; Counselor Recommendation; Proficiency on Systemic Assessments; Parent/Student Request; Proficiency with or desire to complete challenging assignments

Textbook(s): Collections, ISBN 97805444159945
**English 9 Learning Lab**

*Course Code:* 103913  
*Prerequisites:* Concurrent enrollment in English 9  
*Credits:* 1.0 Elective

The focus of the course is to provide students with additional instructional opportunities aimed at mastery of the Maryland College and Career Readiness standards. Students will get more experience with complex texts, writing, academic vocabulary and close reading strategies.

Textbook(s): *Collections*, ISBN 9780544159945

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**English 10**

*Course Code:* 104503, 104523, 104533, 104543, 104563, 104573, 104583  
*Prerequisites:* Successful completion of full-year English 9  
*Credits:* 1.0 English 10

This course is designed to move students towards mastery of the grade level English Language Arts Maryland College and Career Readiness Standards. Students will read complex texts that are fictional and informational. Students will read closely to analyze texts to prepare for writing tasks that include Literary Analysis, Narrative Analysis, and Research Simulation. Students will also develop skills in language and speaking and listening.

104573 - Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

104583 - Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program;

104533 - Supported Inclusion - This course is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs.

104193 Honors - Prerequisites: Placement should be based on the following criteria (It is recommended that 3 of the 6 following criteria be met): Successful completion of full-year English Grade 9 Honors or an A/B average in full-year English 9; Teacher Recommendation; Counselor Recommendation; Proficiency on Systemic Assessments; Parent/Student Request; Proficiency with or desire to complete challenging assignment.

110523 World Lit Pre-Diploma Program - Prerequisites: International Baccalaureate Program Admission; Placement should be based on the following criteria (It is recommended that 3 of the 6 following criteria be met): Successful completion of full-year English Grade 9 Honors or an A/B average in full-year English 9; Teacher Recommendation; Counselor Recommendation; Proficiency on Systemic Assessments; Parent/Student Request; Proficiency with or desire to complete challenging assignments

Textbook(s): *Collections*, ISBN 9780544159952

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**English 10 Learning Lab**

*Course Code:* 104913  
*Prerequisites:* Concurrent enrollment in English 10  
*Credits:* 1.0 Elective

Students enrolled in this course should be concurrently enrolled in English 10. The focus of the course is to provide students with additional instructional opportunities aimed at mastery of the Maryland College and Career Readiness standards. Students will get more experience with complex texts,
writing, academic vocabulary and close reading strategies.

104073 - Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

104083 - Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program;

104033 - Supported Inclusion - This course is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs.

104053 ESOL

Textbook(s): *Collections*, ISBN 9780544159952

**English 11**

**Course Code:** 105503, 105563  
**Prerequisites:** Successful completion of full-year English 10  
**Credits:** 1.0 English 11

This course is designed to move students towards mastery of the grade level English Language Arts Maryland College and Career Readiness Standards. Students will read complex texts that are fictional and informational. Students will read closely to analyze texts to prepare for writing tasks that include Literary Analysis, Narrative Analysis, and Research Simulation. Students will also develop skills in language and speaking and listening.

105573 - Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

105583 - Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program;

105533 - Supported Inclusion - This course is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs.

105293 Honors - Prerequisites: Successful completion of full-year English 10; Placement should be based on the following criteria (It is recommended that: 3 of the 6 following criteria be met): Successful completion of full-year RELA English Grade 10 Honors or an A/B average in full-year English 10; Teacher Recommendation; Counselor Recommendation; Proficiency on Systemic Assessments; Parent/Student Request; Proficiency with or desire to complete challenging assignments.

Textbook(s): *Collections*, ISBN 9780544159969

**English 11 Learning Lab**

**Course Code:** 105913  
**Prerequisites:** Concurrent enrollment in English 11  
**Credits:** 1.0 Elective

Students enrolled in this course should be concurrently enrolled in English 11. The focus of the course is to provide students with additional instructional opportunities aimed at mastery of the Maryland College and Career Readiness standards. Students will get more experience with complex texts, writing, academic vocabulary and close reading strategies.
English 12

Course Code: 106503, 106533, 106573, 106583
Prerequisites: Successful completion of full-year English 11
Credits: 1.0 English 12

This course is designed to move students towards mastery of the grade level English Language Arts Maryland College and Career Readiness Standards. Students will read complex texts that are fictional and informational. Students will read closely to analyze texts to prepare for writing tasks that include Literary Analysis, Narrative Analysis, and Research Simulation. Students will also develop skills in language and speaking and listening.

106573 - Co-Teach -This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

106583 - Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program;

106533 - Supported Inclusion - This course is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs.

Textbook(s): Collections, ISBN 9780544159976

Dual Credit: Earning credit for EGL 1010 Composition I: Expository Writing makes a student eligible for 106513 English 12 DE credit.

English 12 Learning Lab

Course Code: 106530
Prerequisites: Seniors who have not been designated college and career ready
Credits: 0.5 Elective

This course serves as a transition course for English and Reading which will satisfy the MCCR requirement. This course is designed to prepare students for college level courses specifically by improving skills in grammar and punctuation, sentence construction, paragraph development, short essay writing and critical reading of a variety of texts.

106540 - Supported Inclusion - This course is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs.

Textbook: TBA

Academic Resource Support Class

Course Code: Grade 9: 142170, 142171, 142272, 142273
Grade 10: 142370, 142371, 142472, 142473
Grade 11: 142570, 142571, 142672, 142673
Grade 12: 142770, 142771, 142872, 142873

Prerequisites: None
Credits: 0.5, 1.0 Elective

This course provides struggling special education and general education students with instructional supports and skill development to increase access to the general education curriculum in order to be
successful in the academic environment. Curriculum will incorporate instructional practices and strategies based on student learning styles and individual needs and may include self-advocacy organization and test-taking skills that will enhance academic performance across all content areas. This course is designed for a small class environment and can be taken year long or as a semester class for elective credit. Instructional materials may include: *Square Pegs: Building Success in School and Life; Test Success in the Brain Compatible Classroom; Pathways of Learning; Self-Efficacy; Raising the Bar for Students with Learning Needs*

**Academic Resource Support Class - Honors**

**Course Code:**
- Grade 9: 142190, 142191, 142292, 142293
- Grade 10: 142390, 142391, 142492, 142493
- Grade 11: 142590, 142591, 142692, 142693
- Grade 12: 142790, 142791, 142892, 142893

**Prerequisites:** None

**Credits:** 0.5, 1.0 Elective

This course provides support to students who require additional assistance in order to be successful in a rigorous academic environment. Curriculum includes strategies to address self-advocacy, organizational needs, goal setting, executive functioning weaknesses, and test-taking skills that will enhance academic performance in Honors, AP, IB classes. This course is designed specifically to provide support for general education and special education students who are participating in honors level coursework, in a small class environment, and can be taken year long or as a semester class, for elective credit.

Instructional materials may include: *Square Pegs: Building Success in School and Life; Test Success in the Brain Compatible Classroom; Pathways of Learning; Self-Efficacy; Raising the Bar for Students with Learning Needs*

**Advanced Placement Cambridge Research Seminar**

**Course Code:** 010003

**Prerequisites:** Must be admitted into the AP/Cambridge program and taking the AP anchor course, *English Language and Composition*, concurrently at Bowie HS and Eleanor Roosevelt HS

**Credits:** 1.0 Elective; Weighted

This year long seminar course is a requirement for all students wishing to credential in the AP/Cambridge Program. The course is aligned with the AP anchor course (*English Language and Composition*) during the Junior year with the focus on expanding critical thinking through inquiry and reflection on issues of global relevance. Students will gain the skills needed to conduct independent research, critical analysis, college level writing and the final presentation of their project at the end of the course.

Textbook(s): TBD

**Advanced Placement Cambridge Seminar Part II**

**Course Code:** 010003

**Prerequisites:** Must be admitted into the AP/Cambridge program and taken the AP anchor course; *English Language and Composition*, student at Bowie HS and Eleanor Roosevelt HS; and passed AP Cambridge Seminar Part I

**Credits:** 1.0 Elective; Weighted

This year long seminar course is a requirement for all students wishing to credential in the AP/Cambridge Program. The course is aligned with the AP anchor course (*English Language and Composition*) during the Junior year with the focus on expanding critical thinking through inquiry and reflection on issues of global relevance. Students will gain the skills needed to conduct independent research, critical analysis, college level writing and the final presentation of their project at the end of the course.
Cambridge Program. The course is aligned with the AP anchor course (English Language and Composition) during the Senior year with the focus on expanding critical thinking through inquiry and reflection on issues of global relevance. Students will gain the skills needed to conduct independent research, critical analysis, college level writing and the final presentation of their project at the end of the course.

Textbook(s): TBD

**Advanced Placement English Language and Composition**

*Course Code:* 105193  
*Prerequisites:* Application and orientation session  
*Credits:* 1.0 English; Weighted

Designed to prepare students to compete successfully in Advanced Placement, this course will present challenging reading and writing experiences similar to those on advanced placement tests and will use language and writing experiences similar to those found on the AP language test. There will be extensive reading and writing opportunities with an emphasis on analysis of language. Students completing the course are encouraged to take the Advanced Placement examination.


**Seminar in AP English Language and Composition**

*Course Code:* 105203  
*Prerequisites:* Concurrent enrollment in AP English Language and Composition  
*Credits:* 1.0 Elective

This course will provide students with intensive assistance in the concepts and skills tested by the AP English Language and Composition exam. This course prepares students who require additional practice, guidance, and experiences beyond those available in their standard AP English Language and Composition course preparing them for success on the AP English Language and Composition exam, possible exemption from freshman composition, and/or undergraduate elective credit, and for effective reading and writing in college and beyond.


**Advanced Placement English Literature and Composition**

*Course Code:* 132193  
*Prerequisites:* Application and orientation session  
*Credits:* 1.0 English; Weighted

Designed to prepare students to compete successfully in advanced placement, this course will present challenging reading and writing experiences similar to those on advanced placement tests and will use literature similar to that found on the test. There will be extensive reading and writing opportunities, focusing on literary analysis. It is hoped that all students taking the course will also take the Advanced Placement examination.

Seminar in AP English Literature and Composition

Course Code: 132203
Prerequisites: Concurrent enrollment in AP English Literature and Composition
Credits: 1.0 Elective

This course will provide students with intensive assistance in the concepts and skills tested by the AP English Literature and Composition exam. This course prepares students who require additional practice, guidance, and experiences beyond those available in their standard AP English Literature and Composition course preparing them for success on the AP English Literature and Composition exam, possible exemption from freshman composition, and/or undergraduate elective credit, and for effective reading and writing in college and beyond.


Survey of African-American Literature

Course Code: 106600
Prerequisites: English 9 and English 10
Credits: 0.5 Elective

This course is a survey of writings by African American authors from the 17th through 19th Centuries. A range of genres will be studied. Students will examine the formal connections of this tradition—how authors work and rework certain styles, techniques, genres, and structures. Students will also examine how this tradition explores a diverse body of ideas which nonetheless coalesce around the preoccupations of identity, freedom, mobility, and security. Students will have opportunities to engage in close reading, complete short research projects, and engage in writing linked to the Maryland College and Career Ready Standards.

Textbook(s): Collections, ISBN 9780544159976

Survey of African-American Literature 20th Century to Present

Course Code: 106610
Prerequisites: English 9 and 10
Credits: 0.5 Elective

This course is a survey of writings by African American authors from the 20th Century to present times. A range of genres will be studied. Students will examine the formal connections of this tradition—how authors work and rework certain styles, techniques, genres, and structures. We will also examine how this tradition explores a diverse body of ideas which nonetheless coalesce around the preoccupations of identity, freedom, mobility, and security. Students will have opportunities to engage in close reading, complete short research projects, and engage in writing linked to the Maryland College and Career Ready Standards.

Textbook(s): Collections, ISBN 9780544159976
Survey of Women’s Literature  
Course Code: 106603  
Prerequisites: English 9 and 10  
Credits: 1.0 Elective  
This course introduces literature by women in America and all over the world. A variety of genres will be covered along with varying historical periods. Students will become acquainted with the contribution of women writers and investigate the nature of their contributions. Students will have opportunities to engage in close reading, short research projects and writing aligned to the Maryland College and Career Ready Standards.  
Textbook(s): Collections, ISBN 9780544159976

Survey of Latin American Literature  
Course Code: 106613  
Prerequisites: English 9 and 10  
Credits: 1.0 Elective  
This course is a survey of writings by Latin writings by Latinx authors. A range of genres will be studied. Students will examine the formal characteristics and recurring themes in literature written by Latinx Americans. Students will have opportunities to engage in close reading, complete short research projects, and engage in writing linked to the Maryland College and Career Ready Standards.  
Textbook(s): Collections, ISBN 9780544159976

Advanced Critical Reading/Critical Analysis  
Course Code: 583003  
Prerequisites: None  
Credits: 1.0 Elective  
This course offers students an opportunity to engage in high-level reading and writing activities that develop critical analysis skills through instruction and practice. Course content includes selected readings of various genre and response to reading in writing and discussion. Instructional activities are designed to enhance academic performance in all areas and extensive vocabulary study to prepare for PSAT/SAT assessments. (May be blocked with English course)  
Textbook(s): Readers’ Handbook and/or Pre-AP reading materials fro the College Board

Advanced Critical Reading  
Course Code: 583093  
Prerequisites: None  
Credits: 1.0 Elective; Weighted  
Textbook(s): TBA

Critical Reading  
Course Code: 582000, 582003  
Prerequisites: None  
Credits: 0.5, 1.0 Elective  
This course is designed to assist students in developing reading strategies so they may perform at high proficiency levels in the content areas. Students will explore strategies for extending vocabulary, improving comprehension and developing study techniques. Opportunities to transfer techniques to varied materials and to select leisure reading materials will also be provided. (May be blocked with English course.)
**Critical Reading**

*Course Code:* 582093  
*Prerequisites:* None  
*Credits:* 1.0 Elective; Weighted  

Textbook(s): *Readers’ Handbook, Be a Better Reader*

**Critical Reading (READ 180)**

*Course Code:* 584000, 584003, 584013, 584023, 584033  
*Prerequisites:* Students reading significantly below grade level  
*Credits:* 0.5, 1.0 Elective

READ 180 is an intensive reading intervention program designed to meet the needs of students whose reading achievement is below grade level. The program directly addresses individual needs through adaptive and instructional software, high-interest literature, and direct instruction in reading. Recommended as a 90-minute course of study every other day.

Textbook(s): *READ 180 program.*

**Grade 9 Focus Class**

*Course Code:* 142903  
*Prerequisites:* Grade 9 student  
*Credits:* 1.0 Elective

The Ninth Grade Focus Course will help students develop skills that will prepare them for ninth grade promotion, for literacy across content areas with critical reading and vocabulary, and for future college and career opportunities.

Textbook(s): *Study Skills for High School Students*

**Journalism 1 Introduction**

*Course Code:* 121003  
*Prerequisites:* Reading English Language Arts 8  
*Credits:* 1.0 Elective

This introductory course will provide students with both knowledge about the development of journalism as a communication instrument and practical experiences in journalistic techniques. Appropriate time may also be devoted to various school publications.

Textbook(s): *Writer’s Inc.*, ISBN 9780669388121

**Journalism 2 - Newspaper**

*Course Code:* 121103  
*Prerequisites:* Journalism 1  
*Credits:* 1.0 Elective

This course provides students with functional activities involved in newspaper production. Reporting, news gathering, advertising, and photography will be among the topics explored.

Textbook(s): *Journalism Today*, ISBN 9780078616167
SAT Preparation
Course Code:  100010, 100020, 100030, 100040, 100050, 100060, 100070, 100080, 100090
Prerequisites:  Algebra I, Geometry, and concurrent enrollment in Algebra II; English 9 and 10
Credits:  0.5 Elective

Standardized Test Preparation courses help prepare students for national standardized tests such as the PSAT, SAT, and ACT. In particular these courses assist students in developing and/or expanding their vocabulary, test taking, and reasoning skills through study, lecture, logic and rules and general problem solving and test taking strategies. Textbook(s):  TBD

Research and Writing the Term Paper
Course Code:  134800
Prerequisites:  None
Credits:  0.5 Elective

This semester course is designed for those students who wish to gain skills in writing longer papers based on the findings of others. Tools and methods of objective research will be explored. Students will learn the logical development and substantiation of a thesis. They will also have the opportunity to discuss problems of selecting, evaluating, and interpreting facts. Textbook(s):  Writing the Research Paper

Speech 1
Course Code:  122103
Prerequisites:  Reading English Language Arts 8
Credits:  1.0 Elective

This introductory high school course is designed to give students opportunities to gain poise, develop personal interests, and share responsibilities for group projects. Students will have opportunities to acquire listening skills, to learn fundamentals of oral presentation, to increase their vocabularies through word study and oral presentations, to increase their vocabularies through word study as it relates to speech, to prepare and present various types of speeches, to participate in group discussions, to experience platform reading and speaking, to receive an introduction to debate, to meet some of the challenges of performing through the mass media, and to develop interpersonal communication skills. Textbook(s):  None

Dual Credit:  Earning credit for COMM 101 Oral Communications at Bowie State University makes a student eligible for 122113 Speech 1 DE credit.

Speech 2
Course Code:  122203
Prerequisites:  Speech 1
Credits:  1.0 Elective

This second-year advanced course is designed to further develop the skills introduced in Speech 1 by providing additional and enriched experiences. Students will have opportunities to speak to a variety of audiences, enter competitive speaking situations, move extensively into debating, present a readers’ theatre production, listen to and critique a variety of speeches from outside resources, and present a formal manuscript speech. Textbook(s):  None

Dual Credit:  122303 Speech Interpersonal Communications DE is eligible for
Prince George’s Community College SPH 1010 Introduction to Speech credit.
Dual Credit: Earning credit for COMM 103 Public Speaking at Bowie State University makes a student eligible for 122123 Speech 2 DE credit.

**Yearbook 1**

*Course Code:* 121403  
*Prerequisites:* Reading/English/Language Arts 8  
*Credits:* 1.0 Elective  
This course is an introduction to the principles of yearbook journalism culminating in the production of the annual high school yearbook. This course will engage students in the basics of yearbook production including graphic design, copy writing, photo composition, interviewing techniques, and organizational and management skills. This full-year course addresses Maryland College and Career Ready Standards for grades nine through twelve in Visual Arts; English Language Arts – Writing; and Career Technical Education – Arts, Media, and Entertainment. This course is deadline driven and will require participation outside of regular class hours.  
Textbook(s): None

**Yearbook 2**

*Course Code:* 121413  
*Prerequisites:* Yearbook 1  
*Credits:* 1.0 Elective  
This course is the second of three and provides more detailed content instruction introduction on the principles of yearbook journalism culminating in the production of the annual high school yearbook. This course will engage students in the basics of yearbook production including graphic design, copy writing, photo composition, interviewing techniques, and organizational and management skills. Students will be given the opportunity manage and lead the production. This full-year course addresses Maryland College and Career Ready Standards for grades nine through twelve in Visual Arts; English Language Arts – Writing; and Career Technical Education – Arts, Media, and Entertainment. This course is deadline driven and will require participation outside of regular class hours.  
Textbook(s): None

**Yearbook 3**

*Course Code:* 121423  
*Prerequisites:* Yearbook 2  
*Credits:* 1.0 Elective  
This course is the final of three and provides students with the opportunity to manage the production of the publication and the students and volunteers that are involved. Students will be expected to incorporate their learning from the first two courses into this course where they are experiential journalists. This full-year course addresses Maryland College and Career Ready Standards for grades nine through twelve in Visual Arts; English Language Arts – Writing; and Career Technical Education – Arts, Media, and Entertainment. This course is deadline driven and will require participation outside of regular class hours.  
Textbook(s): None
**ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL) COURSE SEQUENCE as of 2017-2018**

<table>
<thead>
<tr>
<th></th>
<th>9th grade</th>
<th>10th grade</th>
<th>11th grade</th>
<th>12th grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ESOL NEWCOMER</strong></td>
<td>English: ESOL Newcomer and ESOL Newcomer AL</td>
<td>English: ESOL Beginner and ESOL Intermediate AL and PARCC</td>
<td>English: ESOL Intermediate and ESOL Advanced AL and PARCC</td>
<td>English: ESOL Advanced and English 10 and PARCC</td>
</tr>
<tr>
<td>Social Studies</td>
<td>Language of American History</td>
<td>U.S. History II</td>
<td>Local, State, and National Government</td>
<td>World History</td>
</tr>
<tr>
<td>Science</td>
<td>Language of Science</td>
<td>Biology</td>
<td>Biogeochemical Systems*</td>
<td>Lab-based Science Course**</td>
</tr>
<tr>
<td>Math</td>
<td>For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. Courses may include Applications in Algebra for ELLs***, Algebra 1 ESOL, Geometry or higher. Mathematics is to be scheduled every year.</td>
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<td></td>
</tr>
</tbody>
</table>

| **ESOL BEGINNER** | English: ESOL Beginner and ESOL Beginner AL | English: ESOL Intermediate and ESOL Intermediate AL and PARCC | English: ESOL Advanced and ESOL Advanced AL and PARCC | English: English 10 and PARCC |
| Social Studies | Language of American History | U.S. History II | Local, State, and National Government | World History |
| Science | Language of Science | Biology | Biogeochemical Systems* | Lab-based Science Course** |
| Math | For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. Courses may include Applications in Algebra for ELLs***, Algebra 1 ESOL, Geometry or higher. Mathematics is to be scheduled every year. | | | |

| **ESOL INTERMEDIATE** | English: ESOL Intermediate and ESOL Intermediate AL | English: ESOL Advanced and ESOL Advanced AL and PARCC | English: English 10 and PARCC | English: English 11 or English 12 |
| Social Studies | U.S. History | Local, State, and National Government | World History | - |
| Science | Biology | Biogeochemical Systems* | Lab-based Science Course** | - |
| Math | For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. Courses may include Applications in Algebra for ELLs***, Algebra 1 ESOL, Geometry or higher. Mathematics is to be scheduled every year. | | | |

| **ESOL ADVANCED** | English: ESOL Advanced and ESOL Advanced AL | English: English 10 and PARCC | English: English 11 | English: English 12 |
| Social Studies | U.S. History | Local, State, and National Government | World History | - |
| Science | Biology | Biogeochemical Systems* | Lab-based Science Course** | - |
| Math | For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. Courses may include Applications in Algebra for ELLs***, Algebra 1 ESOL, Geometry or higher. Mathematics is to be scheduled every year. | | | |

Students enrolled in **BOLD ITALICIZED** courses will take the High School Assessment (HSA), Partnership for Assessment of Readiness for College and Careers (PARCC) and/or Maryland Integrated Science Assessment (MISA) assessment associated with that content area course.

*Biogeochemical Systems and MISA begin SY18-19.

**Lab-based Science Course is defined as one lab-based science course bearing one credit (i.e. Environmental Science, Earth and Space Systems Science, Chemistry, Physics, etc.) – OR -- two lab-based science courses bearing 0.5 credit each (i.e. Forensic Lab Science 1 and 2, Microbiology, Medical Science, Genetics, etc.)
***Only students new to the country should be scheduled into Applications in Algebra for ELLs (AiA); all others should be scheduled into Algebra 1 ESOL Common Core or higher for Mathematics.

ASSESSMENT AND SUPPLEMENTAL READING COURSES
BY ESOL ENGLISH COURSE AND GRADE LEVEL

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade(s)</th>
<th>PARCC</th>
<th>Reading course (as needed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESOL Newcomer (135913) and ESOL Newcomer AL (135923)</td>
<td>9</td>
<td>1.0 English credit and 1.0 Elective credit</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>ESOL Beginner (135123) and ESOL Beginner AL (135113)</td>
<td>9/10</td>
<td>1.0 English credit and 1.0 Elective credit</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>ESOL Intermediate (135133) and ESOL Intermediate AL (135213)</td>
<td>9/10/11</td>
<td>1.0 English credit and 1.0 Elective credit</td>
<td>ELA/Literacy Grades 10 and 11 ONLY</td>
</tr>
<tr>
<td>ESOL Advanced (135223) and ESOL Advanced AL (135233)</td>
<td>9/10/11/12</td>
<td>1.0 English credit and 1.0 Elective credit</td>
<td>ELA/Literacy Grades 10 and 11 ONLY</td>
</tr>
</tbody>
</table>

English for Speakers of Other Languages (ESOL)

English/ESOL 1 PT 1/2 (Transfer Students Only)

Course Code:  136100
Prerequisite:  English courses on international transcripts, identified by ESOL/LMP staff
Credit:  0.5 ESOL

This course requires an evaluation by an international counselor and will be recorded on the student transcript during intake at the International Student Counseling Office (ISCO). This course provides students with credit to comparable English classes taken in their native country.

Textbooks: None
English/ESOL 2 PT 1/2 (Transfer Students Only)
Course Code:  136200
Prerequisite:  English courses on international transcripts; identified by ESOL/LMP staff
Credit:   0.5 ESOL
This course requires an evaluation by an international counselor and will be recorded on the student transcript during intake at the International Student Counseling Office (ISCO). This course provides students with credit to comparable English classes taken in their native country.
Textbooks: None

English/ESOL N/C
Course Code:  136601
Prerequisite:  English courses on international transcripts; identified by ESOL/LMP staff
Credit:   0.0
Textbooks: None

English/ESOL N/C
Course Code:  136602
Prerequisite:  English courses on international transcripts; identified by ESOL/LMP staff
Credit:   0.0
Textbooks: None

ESOL 1 AL PT 1/2 (Transfer Students Only)
Course Code:  137100
Prerequisite:  English courses on international transcripts; identified by ESOL/LMP staff
Credit:   0.5 Elective
This course requires an evaluation by an international counselor and will be recorded on the student transcript during intake at the International Student Counseling Office (ISCO). This course provides students with credit to comparable English classes taken in their native country.
Textbooks: None

ESOL 2 AL PT 1/2 (Transfer Students Only)
Course Code:  137200
Prerequisite:  English courses on international transcripts; identified by ESOL/LMP staff
Credit:   0.5 Elective
This course requires an evaluation by an international counselor and will be recorded on the student transcript during intake at the International Student Counseling Office (ISCO). This course provides students with credit to comparable English classes taken in their native country.
Textbooks: None
English ESOL Newcomer
Course Code: 135913
Prerequisites: English Language Learner
Credits: 1.0 English

English Language Learners will be enrolled in the Newcomer class, an English credit class for students who speak little to no English. This course allows students to receive intensive sheltered. Newcomer English support before being enrolled in ESOL Beginning class. This class meets daily for 9th grade students for one whole year.

Textbook(s): Keys to Learning, ISBN 9780132339353

English ESOL Newcomer Accelerated Learning
Course Code: 135923
Prerequisites: Concurrent enrollment in English ESOL Newcomer
Credits: 1.0 Elective

This elective course complements the English ESOL Newcomer class and provides newcomers with additional instructional support in the areas of listening, speaking, reading, and writing.

Textbook(s): Keys to Learning, ISBN 9780132339353

English ESOL Beginner
Course Code: 135123
Prerequisites: WIDA ACCESS score of 1 or 2 in Listening, Speaking, Reading and Writing
Credits: 1.0 English

This language acquisition course develops the beginning English language skills of English Language Learners in listening, speaking, reading and writing. These skills require control of the sound system, grammar, vocabulary and basic sentence structure. Students will build and develop Basic Interpersonal Communication Skills (BICS) while learning how to read, write, and think critically for use in appropriate social, cultural, and academic situations.

Textbook(s): Keystone D, ISBN 9781428434943

English ESOL Beginner Accelerated Learning (AL)
Course Code: 135113
Prerequisites: Concurrent enrollment in English ESOL Beginner
Credits: 1.0 Elective

The English ESOL Beginner course complements English ESOL Beginner and provides beginning English Language Learners with additional instructional support in the areas of Listening, Speaking, Reading and Writing. This course is designed to enhance student’s capacity to read, write, and think critically while building language.

Textbook(s): Keystone D, ISBN 9781428434943

English ESOL Intermediate
Course Code: 135133
Prerequisites: Successful completion of English ESOL Beginner or WIDA ACCESS score of 3
Credits: 1.0 ESOL

This language acquisition course is for English Language Learners whose English language skills and previous educational backgrounds are such that they require a second year of instruction. Students
will continue to acquire English proficiency with emphasis on basic reading comprehension, building vocabulary and paragraph development. This course will develop the student’s Cognitive Academic Language Proficiency (CALP).

Textbook(s): *Keystone D*, ISBN 9781428434943

**English ESOL Intermediate Accelerated Learning (AL)**

*Course Code:* 135213  
*Prerequisites:* Concurrent enrollment in English ESOL Intermediate  
*Credits:* 1.0 Elective  

The English ESOL Intermediate AL course complements English ESOL Intermediate and provides intermediate English Language Learners with additional instructional support in the areas of Listening, Speaking, Reading and Writing.

Textbook(s): *Keystone D*, ISBN 9781428434943

**English ESOL Advanced**

*Course Code:* 135223  
*Prerequisites:* Successful completion of English ESOL Intermediate or WIDA ACCESS score of 4 or above  
*Credits:* 1.0 ESOL  

This language development course continues to develop Cognitive Academic Language Proficiency (CALP) and increased control of English language skills. Students will develop strategies for reading comprehension, writing skills and increase their academic vocabulary. Students will also use critical reading and thinking skills to analyze fiction (including novels) and non-fiction literary genres.

Textbook(s): *Collections*, ISBN 9780544091009

**English ESOL Advanced Accelerated Learning (AL)**

*Course Code:* 135233  
*Prerequisites:* Concurrent enrollment in English ESOL Advanced  
*Credits:* 1.0 Elective  

Concurrent Enrollment Course: English ESOL 3 AL complements English ESOL 3 and provides advanced level English Language Learners with additional instructional support in the areas of Listening, Speaking, Reading and Writing. Book: Language of Literature

Textbook(s): *Collections*, ISBN 9780544087095

**Critical Reading ESOL**

*Course Code:* 582051, 582052, 582053  
*Prerequisites:* Selection by ESOL staff, Enrolled in ESOL Intermediate  
*Credits:* 0.5, 1.0 ESOL  

This semester or year long, single period course is designed for ESOL Intermediate students who need additional support in reading comprehension and fluency.

Textbook(s): Selected readings and novel

**Advanced Reading ESOL**

*Course Code:* 583051, 583052, 583053  
*Prerequisites:* Selection by ESOL staff, enrolled in ESOL Advanced or English 10
**Credits: 0.5, 1.0 ESOL**

This semester or year long, single period course is designed for ESOL Advanced students or English 10 students (previous course ESOL Advanced) who need additional support in reading comprehension and fluency.

Textbook(s): Dr. Janet Allen’s *Plugged Into Reading* series

**Language of Science**

**Course Code:** 137803  
**Prerequisites:** ESOL Newcomer or Beginner  
**Credits:** 1.0 Elective

This year long single period course is designed to teach academic language used in the content area of Science. In addition, learning strategies, basic literacy skills, and classroom survival skills for American classrooms are taught to the ELLs enrolled in this course.

Textbook(s): Gateway to Science, ISBN 9781424003310

**BUILD - Entrepreneurial Management for English Language Learners**

**Course Code:** 574613  
**Prerequisites:** WIDA ACCESS score of 3.0 in Listening, Speaking, Reading, and Writing  
**Credits:** 1.0 Elective

In this year-long course, students will have the opportunity to develop their social and academic English language proficiency skills through experiential learning. This course will allow students to: think outside the box as they learn problem solving skills and practice approaching problems through collaboration and innovation; test their entrepreneurial know-how by reading and responding to several business case studies as well as generate ideas for creating their business prototypes; prepare and present their final business plans, and finally to bring their own businesses to life in the launch phase. This course is aligned with Maryland College and career ready standards and World Class Instructional Design and Assessment (WIDA) English Language Development (ELD) standards highlighting on the four domains of language--speaking, listening, reading, and writing.

Textbook(s): Materials from BUILD Program

**Language of American History**

**Course Code:** 137603  
**Prerequisites:** ESOL Level Newcomer or Beginner students; Approval of ESOL staff  
**Credits:** 1.0 Elective

This year-long, single period course is designed to teach academic language used in the content area of History. In addition, learning strategies, basic study skills, and classroom survival skills for American classrooms are taught to the English Language Learners enrolled in this course.

Textbook(s): *ACCESS American History*, ISBN 9780669508949

**ESOL/AIM Literacy 1**

**Course Code:** 136703  
**Prerequisites:** Selection by ESOL staff  
**Credits:** 1.0 Elective

This year-long, single period course is designed for pre- and non-literate English Language Learners. It teaches fundamental literacy skills through the content areas of Mathematics, Science and Geography.
ESOL/AIM Literacy 2
Course Code: 136803
Prerequisites: Selection by ESOL/LMP staff
Credits: 1.0 Elective
This year-long, single period course is designed for semi-literate English Language Learners who successfully complete the ESOL AIM Literacy 1 class or who, as new registrants in the county, are identified by their in-take tests as being semi-literate.

Textbook(s): ESL Literacy, 9780669509021; Access Newcomer Kit

Health Education

Family Living
Course Code: 744300
Prerequisites: Health Issues; Grades 11 or 12
Credits: 0.5 Elective
Family Living is a half-credit, dynamic health education elective course designed to meet the needs of seniors and mature eleventh grade students. This seminar type discussion oriented course examines personal development, independent living, relationships, marriage, pregnancy, parenthood, and family crises. Through a process of introspection and self-discovery, this course facilitates the development of a greater appreciation and understanding of what it takes to create and maintain healthy relationships.

Textbook(s): Interpersonal Relationship, ISBN 9781631265761

Health Issues
Course Code: 744200, 744250, 744270
Prerequisites: None
Credits: 0.5 Health
This semester course equips students with the skills to access valid health information and to identify the impact of family, peers, culture, media and technology on health behaviors. Through these skills, students are able to develop a functional knowledge of the core health concepts of personal and consumer health, mental and emotional health, nutrition and fitness, family life and human sexuality, first aid and safety, substance abuse prevention and disease prevention and control. The family life and human sexuality unit requires prior written parental permission. All students are required to complete the Health Issues course to satisfy the half credit graduation requirement. Students cannot earn credit for this course by examination.

Textbook(s): Health, ISBN 9780021407071

Sports Medicine
Course Code: 747000
Prerequisites: Health Issues
Credits: 0.5 Elective
This semester long elective course introduces the student to the field of sports medicine and athletic
training. It provides for the scientific examination of the physiology of exercise; and the skillful application of first aid, taping, rehabilitation, care and prevention of athletic emergency injuries, and CPR training.


### International Baccalaureate

The International Baccalaureate (IB) Diploma Program is a rigorous, two-year course of study for 11th and 12th grade students emphasizing an integrated global perspective. Attainment of the IB Diploma can create a course fulfillment similar to that taken during the first year of many colleges and universities. This can result in a possible savings of enrollment costs. It is suggested that students entering the IB program as rising 9th graders are prepared to take Algebra 1 and have completed a minimum of Level 1 World Language with a grade of C or better. Those students entering the program as rising 10th graders are prepared to take Geometry and have completed Level 2 World Language with a grade of C or better.

#### International Baccalaureate Ab Initio Spanish I

**Course Code:** 169503  
**Prerequisites:** International Baccalaureate Admission  
**Credits:** 1.0 World Language Level 1; Weighted

In Ab Initio Spanish I, students learn to communicate orally through functions and topics. The sounds of language are learned through dialogues, situations and practice activities. Students learn to practice the four language modes (listening, speaking, reading and writing) in a variety of situations. The main focus of the program this first year is communication using the three communicative modes: interpersonal, interpretive and presentational. These modes are aligned with National Standards and the Maryland state framework. For the interpretive and interpersonal modes, students focus on listening to and interacting with the teacher and classmates on selected topics that relate to self, family, friends and community but can also include other topics from the above-mentioned themes, depending on the proficiency of the students. Students will also demonstrate an understanding of the language by using verbal and non-verbal visual cues and reading to understand and convey messages by using CDs, videocassettes, pictures, flashcards and open-ended sentences. For the presentational mode, students will focus on presenting skits and projects and using the three communicative modes. They will also explore careers in the target language and present reports on aspects of different Hispanic and Spanish cultures.

Textbook(s): *IB Spanish Ab Initio*, ISBN 9781596573819

#### International Baccalaureate Ab Initio Spanish II

**Course Code:** 169603  
**Prerequisites:** International Baccalaureate Ab Initio Spanish I  
**Credits:** 1.0 World Language Level 2; Weighted

The development of skills begun in the first year is continued. Great emphasis is placed on vocabulary building and on reading and writing material not practiced orally first. The primary focus of this second year course is to improve listening, speaking, reading and writing, using the three communicative modes. Knowledge of grammar is expanded beyond the present tense and includes more complex structures such as direct and indirect object pronouns. Students will develop and demonstrate their mastery through guided composition writing in which they will use new structures and vocabulary on a variety of topics. The second year program also focuses on developing deeper awareness of and appreciation for Hispanic and Spanish cultures through discussions both in English and Spanish on
different cultural aspects of several countries.

Textbook(s): *IB Spanish Ab Initio*, ISBN 9781596573819

**International Baccalaureate Advanced Independent Research and Study Skills**

**Course Code:** 803003  
**Prerequisites:** *International Baccalaureate Diploma Candidate*  
**Credits:** 1.0 Elective; Weighted

The aim of this course is designed to help IB Diploma Candidates improve their learning effectiveness, attitudes, and awareness. The following skills are included in the curriculum – time management, concentration and stamina, study skills, close reading and annotation, formal writing, note-taking skills, textbook study methods, assessment strategies, and critical thinking skills. In addition, students will be guided by their instructor/advisor to access digital resources recommended for their various IB subjects, as well as enhance their communication and presentation skills. Students will also appropriately apply and reinforce learned research skills to complete assigned IB assessments. The outcome for this class is for students to produce a well-developed authentic essay that demonstrates their ability to formulate a research question, choose a relevant topic worthy of investigation, plan and use an appropriate range of resources, gather and organize data, demonstrate knowledge and understanding through a detailed, logical, cohesive presentation that is stated precisely with appropriate terminology. Students will be required to collaborate with their peers, maintain a portfolio for this class, and post weekly blogs on their performance expectations and learned outcomes.

Textbook(s): None

**International Baccalaureate Art/Design 1**

**Course Code:** 615103  
**Prerequisites:** Art 1 or Art Appreciation; Grade 11 student  
**Credits:** 1.0 Fine Art; Weighted

IB Art/Design 1 offers students opportunities to acquire techniques in the use of a variety of media and to relate art to its historical and social context. Each student develops an inquiring attitude towards visual phenomena and a comprehension of the aesthetic and technical problems encountered in studio practice. Students acquire sufficient technical skills to produce works of quality and an ability to present this work appropriately. Course topics vary by students who choose and pursue independent studies.

Textbook(s): *Launching the Imagination*, McGraw-Hill

**International Baccalaureate Art/Design 2**

**Course Code:** 615203  
**Prerequisites:** IB Art/Design 1  
**Credits:** 1.0 Fine Art; Weighted

IB Art/Design 2 offers students opportunities to acquire techniques in the use of a variety of media and to relate art to its historical and social context. Each student develops an inquiring attitude towards visual phenomena and a comprehension of the aesthetic and technical problems encountered in studio practice. Students acquire sufficient technical skills to produce works of quality and an ability to present this work appropriately. Course topics vary by students who choose and pursue independent studies.

Textbook(s): *Launching the Imagination*, McGraw-Hill
International Baccalaureate Biology 1
Course Code:  421003
Prerequisites:  Biology and Chemistry
Credits:  1.0 Science; Weighted

IB Biology 1 offers the equivalent to a college introductory biology course. It is structured to offer a rigorous and demanding curriculum. The assessments are both internally and externally graded. Students are expected to take the IB test in Biology. Course topics include genetics, evolution, ecology, and options as outlined in the teacher subject guide from the International Baccalaureate Organization.


International Baccalaureate Biology 2
Course Code:  421103
Prerequisites:  IB Biology 1
Credits:  1.0 Science; Weighted

IB Biology 2 offers the equivalent to a college introductory biology course. It is structured to offer a rigorous and demanding curriculum. The assessments are both internally and externally graded. Students are expected to take the IB test in Biology. Course topics include genetics, evolution, ecology, and options as outlined in the teacher subject guide from the International Baccalaureate Organization.


International Baccalaureate Business and Management SL
Course Code:  553223
Prerequisites:  International Baccalaureate student
Credits:  1.0 Elective; Weighted

The business management course is designed to develop students' knowledge and understanding of business management theories, as well as their ability to apply a range of tools and techniques. This course is taught on a one year format and culminates in May assessments. External assessment for HL and SL students consists of two written examination papers. Paper one is based on a pre-seen case study issued in advance, and paper two consists of structured questions based on stimulus material and an extended response question that assesses students' understanding of the key concepts of the course. Internal assessment for HL students is a research project and for SL students a written commentary. In both tasks, students study real world business organizations. These are internally marked by subject teachers and then externally moderated by IB examiners.

Textbook(s): IB Business Management Course Book, ISBN 9780198392811

International Baccalaureate Chemistry 1
Course Code:  431003
Prerequisites:  Biology and Chemistry
Credits:  1.0 Science; Weighted

IB Chemistry students are introduced to the Core Topics of Chemistry and the Options. Performance criteria are demanded with greater intensity and accuracy. Practical work is in greater detail and lab reports are more elaborate. Topics include Stoichiometry, Atomic theory, Periodicity, Chemical bonding, States of matter, Energetics, Kinetics, Equilibrium, Oxidation and reduction, Organic chemistry

Textbook(s): Chemistry Student Guide for Assessed Practical Work, IB Source; IB Diploma Program Chemistry Course  ISBN 9781471829055
**International Baccalaureate Chemistry 2**

Course Code: 431203  
Prerequisites: IB Chemistry 1  
Credits: 1.0 Science; Weighted

IB Chemistry 2 is sequential to IB Chemistry 1. Students are also required to conduct a joint investigation with the Biology students for a Group 4 project, a mandated internal assessment. The research question of this project must incorporate the applications of chemistry and biology concepts. The core topic of Organic Chemistry and the Options are taught at this level with applications and related ness of the other core topics.

Textbook(s): *Chemistry Student Guide for Assessed Practical Work*, IB Source; *IB Diploma Program Chemistry Course Companion* by Geoffrey Neuss; *Chemistry for the IB Diploma*, ISBN 9780198392811

**International Baccalaureate Dance 1**

Course Code: 723213  
Prerequisites: Dance 1 or Dance 2  
Credits: 1.0 Fine Art; Weighted

Dance is a unique medium for learning about self and the world. It is one essential component of artistic, aesthetic and cultural education, and develops creative potential through physical expression. In dance, the integration of body, mind and spirit helps participants learn skills that are transferable to other disciplines and to their daily lives. The IB dance program aims for a holistic approach to dance and embraces a variety of dance traditions and dance cultures—past, present and looking towards the future. Performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum provides students with a liberal arts orientation to dance. This orientation facilitates the development of students who may become choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance. In IB Dance 1, students will focus on the fundamentals of dance, develop technical ability, as well as explore the world of dance. They will begin preparation for personal and group performances.

Textbook(s): TBA

**International Baccalaureate Dance 2**

Course Code: 723223  
Prerequisites: International Baccalaureate Dance 1  
Credits: 1.0 Fine Art; Weighted

This course continues the foundation laid in IB Dance 1 with additional emphasis on enhancement of technical skill. The primary focus of this level of the IB Dance curriculum is accomplishing the IB Dance course requirements. Specific focus will be on Composition and Analysis, a research investigation of dance styles around the world, and performances by the student as an individual as well as in a group.

Textbook(s): TBA

**International Baccalaureate Design Technology**

Course Code: 803013  
Prerequisites: Foundations of Technology or Technology Solutions  
Credits: 1.0 Elective; Weighted

IB Design Technology focuses on analysis, design development, synthesis and evaluation. The
creative tension between theory and practice is what characterizes design technology within the
Diploma Programme (DP) sciences subject group. Inquiry and problem-solving are at the heart of
the subject. DP design technology requires the use of the DP design cycle as a tool, which provides
the methodology used to structure the inquiry and analysis of problems, the development of feasible
solutions, and the testing and evaluation of the solution. In DP design technology, a solution can be
defined as a model, prototype, product or system that students have developed independently.

Textbook(s): Design & Technology, ISBN 9781876659196

**International Baccalaureate Economics SL Online**

*Course Code:* 792613  
*Prerequisites:* 11th or 12th grade International Baccalaureate student  
*Credits:* 1.0 Elective; Weighted

Economics SL is the study of economic theory and its applications in the world today. Students will
interpret economic data and statistics, apply relevant theory, and demonstrate this knowledge using
written prose, diagrams and economic terminology.

Textbook(s): None

**International Baccalaureate Film A Online**

*Course Code:* 796133  
*Prerequisites:* International Baccalaureate student  
*Credits:* 1.0 Elective; Weighted

The Diploma Programme 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.

Textbook(s): None

**International Baccalaureate Film B Online**

*Course Code:* 796143  
*Prerequisites:* IB Film A  
*Credits:* 1.0 Elective; Weighted

The Diploma Programme 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.

Textbook(s): None

**International Baccalaureate French 1**

*Course Code:* 159003  
*Prerequisites:* French 1, 2, and 3; Grade 11 student  
*Credits:* 1.0 World Language; Weighted

The students will demonstrate accuracy in their use of both the spoken and written language. They
will be able to understand, respond, and enter into discussions to express their opinions. The students
will demonstrate an awareness and appreciation of the different perspectives of people from other
cultures and understand how languages embody these differences. Course topics include food,
leisure, education, the media, music, and relationships in a global society.
International Baccalaureate French 2
Course Code: 159103
Prerequisites: Grade 12 student; Completion of IB French 1
Credits: 1.0 World Language; Weighted

IB French B students will demonstrate accuracy in their use of both the spoken and written language; be able to understand, respond, and enter into discussions and debate in order to express their opinions; demonstrate an awareness and appreciation of the different perspectives of people from other cultures; and understand how language embodies these cultures. Course topics include young people in a global society; women in society; work; the environment; changes in technology. Textbook: *Tout Droit*, Rod Hares and David Mort ISBN 0719575338; *Au Point* ISBN 0174491352; *Café Crème* ISBN 2011551226; *L'Etranger*, Albert Camus in French

International Baccalaureate Geography 1
Course Code: 266203
Prerequisites: International Baccalaureate student
Credits: 1.0 Elective; Weighted

IB Geography 1 includes both human and economic geography as complementary and reinforcing concepts. Topics include geology, geomorphology, atmospheric and oceanic systems, biospheres, population geography, urban geography, economic development and trade, agriculture, and industrial and transport geography. Students apply a modern scientific approach by using statistical methods in investigation. They also interpret topographic maps and conduct fieldwork. Textbook(s): *Planet Geography*

International Baccalaureate Geography 2
Course Code: 266503
Prerequisites: IB Geography 1
Credits: 1.0 Elective; Weighted

IB Geography 2 includes both human and economic geography as complementary and reinforcing concepts. Topics include geology, geomorphology, atmospheric and oceanic systems, biospheres, population geography, urban geography, economic development and trade, agriculture, and industrial and transport geography. Students apply a modern scientific approach by using statistical methods in investigation. They also interpret topographic maps and conduct fieldwork. Textbook(s): *Planet Geography*

International Baccalaureate History of the Americas
Course Code: 266403
Prerequisites: IB Modern World History; Grade 12 student
Credits: 1.0 Elective; Weighted

IB History of Americas is an examination of the history of the western hemisphere to include US, Latin American and Canadian history. Course topics include Slavery and the New World, Independence Movements, Imperialism, American Civil War, Reconstruction, America as a Global Power, Mexican-American War, Progressive Era, Great Depression, World War II, The Cold War, Civil Rights and

**International Baccalaureate Information Technology in a Global Society**

*Course Code:* 864303  
*Prerequisites:* Admission to an International Baccalaureate Program  
*Credits:* 1.0 Elective; Weighted

There are four assessment objectives for the SL and HL Diploma Programme ITGS course. Having followed the course at SL or HL, students will be expected to demonstrate the following.

Knowledge and understanding of specified content (Demonstrate an awareness of IT applications and developments in specified scenarios; demonstrate an awareness of the social and ethical significance of specified IT applications and developments; demonstrate technical knowledge of ITGS terminology, concepts and tools; demonstrate technical knowledge of IT systems; and demonstrate knowledge and understanding of topics related to the annually issued case study (HL paper 3 only)

Application and analysis (Explain the impacts of IT applications and developments in specified scenarios; analyze the social and ethical significance of specified IT applications and developments; transfer IT knowledge and make connections between specific scenarios; and apply technical knowledge of IT systems acquired through independent research to provide supporting evidence in possible decisions relating to future courses of action related to the annually issued case study (HL paper 3 only)

Synthesis and evaluation (Evaluate local and global impacts of specified IT developments through individually researched studies; evaluate a solution involving IT to a specified problem using knowledge of IT systems; discuss the social and ethical implications of specified IT policies and developments; and evaluate, formulate and justify possible strategic courses of action related to the annually issued case study (HL paper 3 only)

Use of ITGS skills (Demonstrate evidence of project management in the development of a well-organized product to resolve a specific issue; use IT tools and the product development life cycle (PDLC) to create an original product in consultation with a client; and demonstrate evidence of the use of appropriate techniques to develop an original IT product

*Textbook(s):* TBA

**International Baccalaureate Japanese B Ab initio (SL)**

*Course Code:* Ab initio A -150403  
*Course Code:* Ab initio B -150503  
*Prerequisites:*  
Ab initio A – grade 11 student; Japanese 3  
Ab initio B – grade 12 student; IB Japanese B Ab initio A  
*Credits:* 1.0 World Language; Weighted

IB Japanese B Ab initio is a foreign language course designed for complete beginners. Students are prepared to use the language appropriately in a variety of settings. Each course develops students’ powers of expression in a second language, provides them with a resource for the study of other subjects, and brings them into contact with ways of thought that may differ from their own. Exercises in grammar, reading and writing, and culture are presented with such topics as hobbies and leisure activities, weather and climate, everyday life, food, shopping, travel, at home, transportation, the body and health, life and careers, and communication and media.

*Textbook(s):* Yookoso!
International Baccalaureate Language and Literature 1
Course Code: 112203
Prerequisites: English 9 Honors and English 10 Honors or English 9 PDP and English 10 PDP
Credits: 1.0 English; Weighted

IB Language and Literature is a comprehensive and rigorous two-year curriculum for students enrolled in the IB Diploma Programme. The course is a study of both language and literature, and students question the meaning generated by language and texts and focus closely on the language of the texts they study and become aware of the role of each text's wider context in shaping its meaning. Students develop skills of textual analysis and the understanding that texts, both literary and non-literary, can be seen as autonomous yet simultaneously related to culturally determined reading practices. Students will also develop powers of expression in oral and written communications, and a portion of their work will be externally assessed by international examiners.

Textbook(s): IB Recommended Novels and Texts

International Baccalaureate Language and Literature 2
Course Code: 112213
Prerequisites: English 9 Honors and English 10 Honors or English 9 PDP and English 10 PDP and IB Language and Literature 1
Credits: 1.0 English; Weighted

IB Language and Literature is a comprehensive and rigorous two-year curriculum for students enrolled in the IB Diploma Programme. The course is a study of both language and literature, and students question the meaning generated by language and texts and focus closely on the language of the texts they study and become aware of the role of each text's wider context in shaping its meaning. Students develop skills of textual analysis and the understanding that texts, both literary and non-literary, can be seen as autonomous yet simultaneously related to culturally determined reading practices. Students will also develop powers of expression in oral and written communications, and a portion of their work will be externally assessed by international examiners.

Textbook(s): IB Recommended Novels and Texts

International Baccalaureate Math Studies 1 and 2
Course Code: 377103, 386003
Prerequisites: Grade 11 or 12 student; Algebra 1 and 2 and Geometry
Credits: 1.0 Mathematics; Weighted

The course concentrates on mathematics that can be applied to contexts related as far as possible to other subjects, to common real-world occurrences and to home, work, and leisure situations. The course includes project work, a feature unique within this group of courses. Students must produce a project, a piece of written work based on personal research, guided and supervised by a teacher. This process allows students to ask their own mathematics questions and to take responsibility for a part of their own course of studies in mathematics. Course topics include introduction to the graphic display calculator; number and algebra; sets, logic and probability; functions; geometry and trigonometry; statistics; introductory differential calculus; and financial mathematics.

International Baccalaureate Modern World History
Course Code: 266103
Prerequisites: Grade 11 student; Local, State, National Government Course or Advanced Placement US Politics and Government
Credits: 1.0 World History; Weighted

This course studies 20th century events from a global perspective. Emphasis is on 20th century wars and the rise of single party states as well as the cold war. Course topics include World War I, the Russian Revolution, Stalin's Dictatorship, the Inter War years, Nazi Germany, World War II, and the Cold War.

Textbook(s): Discovering the Twentieth Century World: A Look at the Evidence, IB Source; Modern World History

International Baccalaureate Music
Course Code: 645203
Prerequisites: Advanced theory or teacher recommendation
Credits: 1.0 Elective; Weighted

Having followed the music course at SL or HL, students will be expected to demonstrate knowledge, understanding and perception of music in relation to time, place and cultures; appropriate musical terminology to describe and reflect their critical understanding of music; comparative analysis of music in relation to time, place and cultures (unlike at SL, HL students are also expected to demonstrate this in response to pieces not previously studied); creative skills through exploration, control and development of musical elements (SLC, HL); performance skills through solo music making (SLS, HL) or group music making (SLG); and critical-thinking skills through reflective thought.

Textbook(s): TBA

International Baccalaureate Music 2
Course Code: 645213
Prerequisites: Advanced theory or teacher recommendation and Include IB Music 1
Credits: 1.0 International Baccalaureate

Having followed the first year of the music course at SL or HL, students will continue to demonstrate knowledge, understanding and perception of music in relation to time, place and cultures; appropriate musical terminology to describe and reflect their critical understanding of music; comparative analysis of music in relation to time, place and cultures (unlike at SL, HL students are also expected to demonstrate this in response to pieces not previously studied); creative skills through exploration, control and development of musical elements (SLC, HL); performance skills through solo music making (SLS, HL) or group music making (SLG); and critical-thinking skills through reflective thought. IB Music 2 will result in IB assessments and performances that are assessed internally and by IB.

Textbook(s): TBA

International Baccalaureate Philosophy A Online
Course Code: 792203
Prerequisites: International Baccalaureate student
Credits: 1.0 Elective; Weighted

IB Philosophy A 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? Students learn how to think systematically, analyze arguments, study philosophical themes and look at problems facing contemporary society, including those resulting from increased international interaction.
**International Baccalaureate Philosophy B Online**

*Course Code:* 792213  
*Prerequisites:* IB Philosophy A  
*Credits:*  1.0 Elective; Weighted  

IB Philosophy B 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? Students learn how to think systematically, analyze arguments, study philosophical themes and look at problems facing contemporary society, including those resulting from increased international interaction.

**Textbook(s):** None

**International Baccalaureate Psychology 1**

*Course Code:* 266303  
*Prerequisites:* Current Grade 11 or 12 student  
*Credits:*  1.0 Elective; Weighted  

Psychology is the systematic study of behavior and experience. IB Psychology 1 major areas of study include biological, cognitive, learning, humanistic, cultural psychological, social psychology, research methodology, and experimental study. Overall, higher level psychology includes four compulsory perspectives, two options, quantitative research methods, qualitative research methods and ethics, and one experimental study.

**Textbook(s):** TBA

**International Baccalaureate Psychology 2**

*Course Code:* 266603  
*Prerequisites:* Current Grade 11 or 12 student  
*Credits:*  1.0 Elective; Weighted  

IB psychology examines the interaction of biological, cognitive and sociocultural influences on human behavior, thereby adopting an integrative approach. Understanding how psychological knowledge is generated, developed and applied enables students to achieve a greater understanding of themselves and appreciate the diversity of human behavior. The ethical concerns raised by the methodology and application of psychological research are key considerations in IB psychology.

**Textbook(s):** TBA

**International Baccalaureate Research Practicum**

*Course Code:* 803000  
*Prerequisites:* Diploma Program Candidate status  
*Credits:*  0.5 Elective; Weighted  

IB Research Practicum is intended to assist students prepare their Extended Essays, original research papers of no more than 4000 words. Students choose a topic in one of the subjects available in the IB Diploma curriculum and become acquainted with the kind of independent research and writing skills expected at university level. A faculty supervisor provides general guidance on time management and on the overall structure and presentation of the paper.

**Textbook(s):** *The Research Essay*
**International Baccalaureate Spanish 1**

*Course Code:* 169003  
*Prerequisites:* Grade 11; Spanish I, II, III  
*Credits:* 1.0 World Language; Weighted  

Students will demonstrate accuracy in their use of the spoken and written language; understand, respond, and enter into discussions to express their opinions; demonstrate an awareness and appreciation of the perspectives of people from other cultures; and understand how language embodies these differences. Course topics include women and their roles in society, homelessness in the world, roles of family members, the changes in technology over the years, and the environment.

Textbook(s): *Panorama de la Prensa; Lecturas Periodisticas; Conversacion y Controversia*

**International Baccalaureate Spanish 2**

*Course Code:* 169103  
*Prerequisites:* Grade 12 student; IB Spanish 1  
*Credits:* 1.0 World Language; Weighted  

Students will demonstrate accuracy in their use of the spoken and written language. They will also be able to understand, respond, and enter into discussions to express their opinions. The students will demonstrate an awareness and appreciation of the different perspectives of people from other cultures and understand how language embodies these differences. Course topics include relationships, violence, the environment, medicine, and technology’s effect on society.

Textbook(s): *Panorama de la Prensa; Lecturas Periodisticas; Conversacion y Controversia*

**International Baccalaureate Sports Exercise and Health Issues**

*Course Code:* 498503  
*Prerequisites:* Biology and Chemistry  
*Credits:* 1.0 Science  

The Diploma Programme course in Sports, Exercise and Health Science involves the study of the science that underpins physical performance and provides the opportunity to apply principles of health and well being. The course incorporates the traditional disciplines of anatomy and physiology, biomechanics, psychology and nutrition, which are studied in the context of sport, exercise and health. Students will cover a range of core and option topics and carry out practical (experimental) investigations in both laboratory and field settings. This will provide an opportunity to acquire the knowledge and understanding necessary to apply scientific principles and critically analyze human performance. Where relevant, the course will address issues of international dimension and ethics by considering sport, exercise and health relative to the individual and in a global context. The course is taught in a one year format and culminates in May assessments.

*Human Physiology with Vernier*, ISBN 9781929075393

**International Baccalaureate Theatre 1**

*Course Code:* 645013  
*Prerequisites:* Drama 1 or Drama 2  
*Credits:* 1.0 Elective; Weighted  

The IB Theatre course is designed to encourage students to examine theatre in its diversity of forms around the world. This may be achieved through a critical study of the theory, history and culture of theatre, and will find expression through workshopping, devised work or scripted performance.
Students will come to understand that the act of imagining, creating, presenting and critically reflecting on theatre in its past and present contexts embodies the individual and social need to investigate and find explanations for the world around us. The theatre course emphasizes the importance of working individually and as a member of an ensemble. Students are encouraged to develop the organizational and technical skills needed to express themselves creatively in theatre. At the core of the theatre course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement and imaginative synthesis—all of which should be achieved through practical engagement in theatre. The theatre course at SL consists of four interdependent components: theatre in the making (the acquisition and development of all skills required to create, present and observe theatre), theatre in Performance (the application of skills developed in theatre in the making. This involves students in various aspects of presenting theatre, where their practical skills can be applied in different roles (as performers and as part of the production team), theatre in the world (a practical and theoretical exploration of a range of theatre traditions and cultural practices around the world) and the independent project.

Textbook(s): The Wadsworth Anthology of Drama

**International Baccalaureate Theatre 2**

*Course Code: 645023*

*Prerequisites: International Baccalaureate Theatre 1*

*Credits: 1.0 Elective; Weighted*

This course carries out the foundation of the IB Theatre 1 course and helps prepare students for further theatrical practice and study. Students will continue to focus on the primary components of the IB course: theatre in the making, theatre in performance, and the independent project. Students will not only focus on completing the IB requirements for the course but also continuing to grow in their knowledge of theatre and their practice of it in a variety of roles. Particular attention is paid to the Theater Independent Project, an independent research project on an aspect of theatre that is of interest to the student. IB Theatre in its second year will still encourage students to examine theatre in various forms around the world, and ask them to use that knowledge in their IB culminating assessments. Students will continue to critically study the theory, history, and culture of theatre, and express themselves in workshops, scripted performances, and assignments designed to help them meet the challenges of the IB assessments they encounter this year.

Students will begin more independent projects and continue to work as an ensemble cast. Students will continue to work on productions in a variety of roles and study the impact theatre has on individuals, groups, and societies in both the past and present.

Textbook(s): The Wadsworth Anthology of Drama

**International Baccalaureate World Literature 1**

*Course Code: 112003*

*Prerequisites: English 9 Honors and English 10 Honors or English 9 PDP and English 10 PDP*

*Credits: 1.0 English 11; Weighted*

IB World Literature is a comprehensive and rigorous two year curriculum which is required of students enrolled in the IB program. Students enrolled in this course will read selected literary works from a four part syllabus. They will also develop powers of expression in both oral and written communications. In addition to other course work, they will also be expected to submit original projects which will be externally assessed by international examiners.

Textbook(s): TBA
International Baccalaureate World Literature 2

Course Code:  112103
Prerequisites:  International Baccalaureate World Literature 1
Credits:  1.0 English 12; Weighted

IB World Literature is a comprehensive and rigorous two year curriculum which is required of students enrolled in the IB program. Students enrolled in this course will read selected literary works from a four part syllabus. They will also develop powers of expression in both oral and written communications. In addition to other course work, they will also be expected to submit original projects which will be externally assessed by international examiners.

Textbook(s): TBA

International Baccalaureate Theory of Knowledge 1

Course Code:  802000, 802003
Prerequisites:  Grade 11 or 12 International Baccalaureate student
Credits:  0.5 - 1.0 Elective; Weighted

TOK1 is not a learning course; it is a thinking course. It challenges students to reflect critically on diverse ways of knowing and areas of knowledge, and to consider the role which knowledge plays in the global society. It encourages students to become aware of themselves as thinkers, to become aware of the complexity of knowledge, and to recognize the need to act responsibly in an increasingly interconnected world. Course topics include the nature of knowing; knowers and sources of knowledge; justification of knowledge claims; linking questions; perception; language; reason; and emotion.

Textbook(s): Theory of Knowledge for the IB Diploma, IB Source; Theory of Knowledge for the IB Diploma Candidate, ISBN 9780199129737

International Baccalaureate Theory of Knowledge 2

Course Code:  806000
Prerequisites:  IB Theory of Knowledge 1
Credits:  0.5 Elective; Weighted

TOK2 is not a learning course; it is a thinking course. It challenges students to reflect critically on diverse ways of knowing and areas of knowledge, and to consider the role which knowledge plays in the global society. It encourages students to become aware of themselves as thinkers, to become aware of the complexity of knowledge, and to recognize the need to act responsibly in an increasingly interconnected world. Course topics include the nature of knowing; knowers and sources of knowledge; justification of knowledge claims; linking questions; perception; language; reason; and emotion.

Textbook(s): Theory of Knowledge for the IB Diploma, IB Source; Theory of Knowledge for the IB Diploma Candidate, ISBN 9780199129737

Online and Blended Learning

High quality online and blended courses approved for credit offer PGCPS high school students the opportunity to take courses through virtual instruction.

These offerings provide challenging courses aligned to the Maryland content standards and other appropriate standards. Students participating in blended or online courses must have reliable access to a computer during the day and after school. Blended and Online courses are offered by two different programs in PGCPS. The Educational Online Program (EOP) offers blended courses and the Maryland Virtual Learning Opportunities (MVLO) program offers completely online courses. There is an application process for both of these programs.
Online or Blended Art

Online Advanced Placement Art History

Course Code: 796110, 796120
Prerequisites: Approval; Online survey
Credits: 0.5 Fine Arts, Weighted

Art through the Ages is a 36-week course with 28 lessons, each of which takes approximately 1-1/2 weeks. Students will investigate the history of art and the intricacies of composition, color and presentation. Students begin by studying art of the ancient world and progress through the ancient Near East, Egypt, Aegean, Greek, Etruscan, Roman and Early Christian art to the art of the Middle Ages. Students also study about art beyond Europe and investigate the native arts of Asia, the Americas and of Oceania before returning to study the Renaissance, Baroque, Rococo, Modern and Post modern art. During the course they will visit as many online art displays as possible, participate in local field trips to museums and art galleries and demonstrate mastery of some of the techniques of color, composition and presentation by preparing art work of their own in different styles. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Textbook(s): Gardner’s Art Through the Ages, Volumes 1 and 2. ISBN 0155070851

Online Art Appreciation

Course Code: 796123
Prerequisites: Approval; Online survey
Credits: 0.5 Fine Art

Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting.
Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course’s primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas. Coverage of each artistic movement highlights historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. Art Appreciation is based on national standards developed by the Consortium of National Arts Education Associations, as well as key state standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art. (Vendor course approved through school year 2020)

Textbook(s): Vendor Provided

### Blended Art Appreciation

**Course Code:** 796130  
**Prerequisites:** Approval  
**Credits:** 0.5 Fine Art

Art Appreciation is a survey of the history of Western visual arts, with a primary focus on painting. Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Students then explore prehistoric and early Greek and Roman art before they move on to the Middle Ages. Emphasis is placed on the Renaissance and the principles and masters that emerged in Italy and northern Europe. Students continue their art tour with the United States during the 20th century, a time of great innovation as abstract art took center stage. While Western art is the course’s primary focus, students will finish the course by studying artistic traditions from Africa, Asia, Oceania, and the Americas. Coverage of each artistic movement highlights historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. Art Appreciation is based on national standards developed by the Consortium of National Arts Education Associations, as well as key state standards. It encompasses a variety of skills to enable students to critique, compare, and perhaps influence their own works of art.

Textbook(s): TBA

### Online Introduction to Drawing

**Course Code:** 796140  
**Prerequisites:** Approval; Online survey  
**Credits:** 0.5 Fine Art

Learning to draw is like learning any new skill: it takes practice, practice, practice. Introduction to Drawing is a one-semester course for beginning and intermediate artists that provides training in the application of artistic processes and skills. In this course, you will learn the basics of line, contour, shading, texture, perspective, composition, and action drawing. You will examine artwork and demonstrate your newly learned skills by creating several original works of art and compiling a portfolio of your artwork.

Textbook(s): Vendor Provided
Online Intro to Graphic Design A

Course Code: 796010
Prerequisites: Art 1 or Basic Design
Credits: 0.5 Fine Art

Can people communicate without using words? Do different colors invoke different emotions? Can artists use various textures to communicate a range of ideas? Absolutely! Designed to develop an understanding and appreciation for design, the Introduction to Graphic Design A course teaches the student to interpret visual representations and to communicate his or her own ideas and information graphically. By raising the student’s awareness of design, this intermediate-level course establishes a strong foundation in the basic principles of graphic design. This course, the first in a two-semester series, introduces the student to scenarios that can be solved by applying creative techniques that yield innovative and effective design solutions. Though the course is structured around computer-assisted graphic design, the student will examine other types of design as well. The student will also learn to use Inkscape, an image-editing program that is provided and will create several design compositions using this program.

Resource(s): Vendor Provided

Online Intro to Graphic Design B

Course Code: 796020
Prerequisites: Art 1 or Basic Design
Credits: 0.5 Fine Art

Understanding the history of any area of study is important to learning about and appreciating society today. In Introduction to Graphic Design B, the second course in a two-semester series, the student will be introduced to the history of design and how various design movements have contributed to the field of design. The student will get answers to questions such as “What role does design play in society?” and “How does the field of design relate to other facets of society?” Understanding where the field of design comes from will help the student to appreciate the aesthetics and purposes for design today. In addition, this course expands on foundational knowledge in the basic principles of graphic design. The student will learn to communicate visually through effective layout and interface design. The student will also be introduced to appropriate techniques for the evaluation of art and design. Though the course is structured around computer-assisted graphic design, the student will examine other types of design as well. The student will learn to use Inkscape, an image-editing program that is provided for him or her, and will create several design compositions using this program.

Resource(s): Vendor Provided

Online or Blended Career and Computer Science

Online Accounting 1A and 1B

Course Code: 795010, 795020
Prerequisites: Approval; Online survey; Algebra
Credits: 0.5 Elective

Basic Accounting is a 36-week course with 15 lessons. Each lesson takes 6-7 hours to complete and includes an assessment. During the semester, students study the basic concepts of accounting by relating accounting to real-life situations. This course introduces students to accounting concepts and principles, financial statements, internal control design, and accounting for partnerships. By the end
of the course, students will be able to define terms related to business accounting, apply accounting
concepts and principles, prepare financial statements, analyze financial statements for decision
making, evaluate internal controls, account for partnership transactions, and differentiate international
financial reporting standards from generally accepted accounting principles.

Students may take the first semester of the course without taking the second semester, but may not
take semester 2 without taking semester 1.

Resource(s): Vendor Provided

Online Advanced Placement Computer Science A

Course Code: 793410, 793420
Prerequisite: Approval; Algebra 1, Geometry and Algebra 2
Credits: 0.5 Math; Weighted

AP Computer Science A is an introductory computer course. A large part of the course involves
developing the skills to write programs or parts of programs that correctly solve specific problems.
The course also emphasizes the design issues that make programs understandable, adaptable, and
when appropriate, reusable. At the same time, the development of useful computer programs and
classes is used as a context for introducing other important concepts in computer science, including
the development and analysis of algorithms, the development and use of fundamental data structures,
and the study of standard algorithms and typical applications. In addition an understanding of the
basic hardware and software components of computer systems and the responsible use of these
systems are integral parts of the course.

The goals of the AP Computer Science course are comparable to those in the introductory sequence of
courses for computer science majors offered in college and university computer science departments.
Students completing the AP Computer Science course will be able to design and implement computer-
based solutions to problems in a variety of application areas; use and implement commonly-used
algorithms and data structures; develop and select appropriate algorithms and data structures to
solved problems; code fluently in an object-oriented paradigm using the programming language Java;
and read and understand a large program consisting of several classes and interacting objects;
identify the major hardware and software components of a computer system, their relationship to one
another, and the roles of these components within the system; and recognize the ethical and social
implications of computer use. Students may take the first semester of the course without taking the
second semester but may not take semester 2 without taking semester 1.

Computer Science Case Study. (Available from College Board)

Required Software: Java, a free download for either a Macintosh or a Windows platform

Blended Financial Literacy for Teens

Course Code: 795023
Prerequisites: Approval; Online survey
Credits: 1.0 Elective

Mathematics of Personal Finance focuses on real-world financial literacy, personal finance, and
business subjects. Students apply what they learned in Algebra I and Geometry to topics including
personal income, taxes, checking and savings accounts, credit, loans and payments, car leasing
and purchasing, home mortgages, stocks, insurance, and retirement planning.

Students then extend their investigations using more advanced mathematics, such as systems
of equations (when studying cost and profit issues) and exponential functions (when calculating
interest problems). To assist students for whom language presents a barrier to learning or who
are not reading at grade level, Mathematics of Personal Finance includes audio resources in both
Spanish and English.
This course is aligned with state standards as they apply to Mathematics of Personal Finance and adheres to the National Council of Teachers of Mathematics’ (NCTM) Problem Solving, Communication, Reasoning, and Mathematical Connections Process standards.

Textbook(s): None

Online or Blended Career and Technical Education

Online Intro to Homeland Security
Course Code: 999000
Prerequisites: None
Credits: 0.5 Elective
In this course you will examine the elements involved in the homeland security function, as well as the challenges managers in government and industry can face while maintaining mission operations and staff accountability in the midst of multiple overlapping roles and responsibilities. The key functions of threat prevention, asset protection, crisis response, and operations recovery are addressed from a variety of perspectives. By the end of the course, you will be able to compare national security policy before and after 9/11; describe the formation, purpose, and organization of the Department of Homeland Security; examine the types and effects of terrorism; analyze intelligence; describe the United States’ approach to emergency management; describe the purpose, structure and function of the Incident Command System (ICS); and examine the role of various fields in preparing for and responding to emergencies.

Textbook(s): Online Curriculum

Online or Blended English

Online Advanced Placement English Language and Composition
Course Code: 791130, 791140
Prerequisites: Approval; B or better in English 10
Credits: 0.5 English, Weighted
AP English Literature and Composition immerses students in novels, plays, poems, and short stories from various periods. Students read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices. The key foci of this course are comprehension, interpretation, and analysis. More specifically, the course focuses on close and thematic reading skills. The writing students undertake is overwhelmingly of an analytical nature; students analyze meaning and how meaning is created. The equivalent of an introductory college-level survey class, this course prepares students for the AP Exam and for further study in creative writing, communications, journalism, literature, and composition. The content aligns to the scope and sequence specified by the College Board and to widely used textbooks. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.
Online Advanced Placement English Literature and Composition

Course Code: 791150, 791160
Prerequisites: Approval; Online survey; B or better in English 10
Credits: 0.5 English, Weighted

AP English Literature and Composition immerses students in novels, plays, poems, and short stories from various periods. Students read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and class discussions to assess and improve their skills and knowledge. The course places special emphasis on reading comprehension, structural and critical analysis of written works, literary vocabulary, and recognizing and understanding literary devices. The key foci of this course are comprehension, interpretation, and analysis. More specifically, the course focuses on close and thematic reading skills. The writing students undertake is overwhelmingly of an analytical nature; students analyze meaning and how meaning is created. The equivalent of an introductory college-level survey class, this course prepares students for the AP Exam and for further study in creative writing, communications, journalism, literature, and composition. The content aligns to the scope and sequence specified by the College Board and to widely used textbooks. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Resource(s): Vendor Provided

Online English 9

Course Code: 791023
Prerequisites: Approval; Online survey; High School Student
Credits: 1.0 English 9

English 9 provides an introduction to informational and literary genres and lays a foundation of critical reading and analytical writing skills. Through texts that range from essays, speeches, articles and historical documents to a novel, a play, poetry and short stories, students analyze the use of elements of literature and nonfiction. As they develop their writing skills and respond to claims, students learn to formulate arguments and use textual evidence to support their position. To hone their listening and speaking skills, students engage with a variety of media types through which they analyze and synthesize information, discuss material, create presentations, and share their work. English 9 supports all students in developing the depth of understanding and higher order skills required by the Common Core. Students break down increasingly complex readings with close reading tools, guided instruction and robust scaffolding as they apply each of the lesson’s concepts back to its anchor text. Students build their writing and speaking skills in journal responses, discussions, frequent free response exercises, and essays or presentations, learning to communicate clearly and credibly in narrative, argumentative, and explanatory styles. Throughout the course students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments. This course is aligned with the Common Core State Standards for English Language Arts.

Textbook(s): Vendor Provided
Blended English 9

Course Code: 791003
Prerequisites: Approval
Credits: 1.0 English 9

English 9 provides an introduction to informational and literary genres and lays a foundation of critical reading and analytical writing skills. Through texts that range from essays, speeches, articles and historical documents to a novel, a play, poetry and short stories, students analyze the use of elements of literature and nonfiction. As they develop their writing skills and respond to claims, students learn to formulate arguments and use textual evidence to support their position. To hone their listening and speaking skills, students engage with a variety of media types through which they analyze and synthesize information, discuss material, create presentations, and share their work.

English 9 supports all students in developing the depth of understanding and higher order skills required by the Common Core. Students break down increasingly complex readings with close reading tools, guided instruction and robust scaffolding as they apply each of the lesson’s concepts back to its anchor text. Students build their writing and speaking skills in journal responses, discussions, frequent free response exercises, and essays or presentations, learning to communicate clearly and credibly in narrative, argumentative, and explanatory styles. Throughout the course students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments.

Resource(s): Vendor Provided

Blended English 10

Course Code: 791043
Prerequisites: Approval; Online survey; English 9; High School Student
Credits: 1.0 English 10

English 10 builds upon students’ foundation of critical reading and analytical writing skills. Through texts that range from investigative journalism, essays, articles and historical documents to a novel, drama, poetry and short stories, students analyze the use of elements of literature and nonfiction. As they develop their writing skills and respond to claims, students learn to refine arguments and organize evidence to support their position. To hone their listening and speaking skills, students engage with a variety of media types through which they analyze and synthesize information, discuss material, create presentations, and share their work. English 10 supports all students in developing the depth of understanding and higher order skills required by the Common Core. Students break down increasingly complex readings with close reading tools, guided instruction and robust scaffolding as they apply each of the lesson’s concepts back to its anchor text. Students build their writing and speaking skills in journal responses, discussions, frequent free response exercises, and essays or presentations, learning to communicate clearly and credibly in narrative, argumentative, and explanatory styles. Throughout the course students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments. This course is aligned with the Common Core State Standards for English Language Arts.

Textbook(s): TBA

Online English 11

Course Code: 791050, 791060
Prerequisites: Approval; English 9 and English 10
Credits: 0.5 English 11

Students explore the themes of technology and nature, language, illusion, ethnicity, gender,
culture, family, and identity by reading culturally diverse selections within a variety of genres. Students will investigate and respond to some of the major themes in American literature and see how they encompass and are influenced by diverse historical, cultural, geographic, gendered, and class perspectives; explore, interpret, analyze, and respond to diverse genres (short story, novel, poetry, drama, nonfiction, testimony, and autobiography), and verse perspectives (history, culture, geography, age, gender, sexual orientation, and class); experience writing as a form of thinking, self-expression, and communication through reading other writers’ works and through their own writing; learn grammatical and compositional information in the context of reading and writing; gain further understanding of themselves and others, and critically examine their own beliefs and attitudes through reading and discussion; and develop multicultural awareness through reading, reflection, application, and writing. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Textbook(s): Vendor Provided

**Blended English 11**

**Course Code:**  791053  
**Prerequisites:**  Approval; Online survey; High School Student; English 9 and English 10  
**Credits:**  1.0 English 11  

In English 11, students examine the belief systems, events, and literature that have shaped the United States. Starting with the Declaration of Independence, students explore how the greatest American literature tells the stories of individuals who have struggled for independence and freedom, freedom of self, freedom of thought, freedom of home and country. Students reflect on the role of the individual in Romantic and Transcendentalist literature that considers the relationship between citizens and government, and they question whether the American Dream is still achievable while examining Modernist disillusionment with American idealism. As well, reading the words of Frederick Douglass and those of the Civil Rights Act, students look carefully at the experience of African Americans and their struggle to achieve equal rights. Finally, students reflect on how individuals cope with the influence of war, cultural tensions, and technology in the midst of trying to build and secure their own personal identity.

English 11 supports all students in developing the depth of understanding and higher order skills required by the Common Core. Students break down increasingly complex readings with close reading tools, guided instruction, and robust scaffolding as they apply each of the lesson’s concepts back to its anchor text. Students build their writing and speaking skills in journal responses, discussions, frequent free response exercises, and essays or presentations, learning to communicate clearly and credibly in narrative, argumentative, and explanatory styles. Throughout the course, students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments. This course is aligned with the Common Core State Standards for English Language Arts.

Textbook(s): None

**Online English 12**

**Course Code:**  791070, 791080  
**Prerequisites:**  Approval; English 9, English 10, and English 11  
**Credits:**  0.5 English 12  

English 12 is a survey of British and world literature organized both chronologically and thematically. Beginning with the Anglo-Saxons and continuing to modern authors, students read literature from many different genres including poetry, drama, essay, novel, and short story. The course focuses on utilizing reading strategies, improving writing skills, mastering new vocabulary and honing critical
thinking skills. After completing the course, students will be able to name the characteristics of each period of British literature, how they differ, and how they drew on elements from the past; use the rules of good grammar and logical writing to produce written opinions about the literature they read; recognize more vocabulary words and know where to find the meaning of words that they don’t understand; recognize some basic elements of literary types; identify the basic rules of grammar; identify the steps in clear, logical writing; and read with more skill and more confidence. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Textbook(s): Vendor Provided

Blended English 12

Course Code: 791073
Prerequisites: Approval; Online survey; High School Student; English 9, English 10, and English 11;
Credits: 1.0 English 12

English 12 asks students to delve into the mingled history of British and World literature. It asks students to imagine: Face to face with a human being unlike any you’ve seen before, do you feel fear, awe, or curiosity? Do you look for what you can give, what you can take, or what you can share? Do you find unfamiliar people and customs magical, mysterious, or monstrous? Students explore how humans interact with and influence each other — historically, socially, and otherwise — and examine the complexities of cultural identity in our global and fast-changing world.

English 12 supports all students in developing the depth of understanding and higher order skills required by the Common Core. Students break down increasingly complex readings with close reading tools, guided instruction, and robust scaffolding as they apply each of the lesson’s concepts back to its anchor text. Students build their writing and speaking skills in journal responses, discussions, frequent free response exercises, and essays or presentations, learning to communicate clearly and credibly in narrative, argumentative, and explanatory styles. Throughout the course, students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments.

This course is aligned with the Common Core State Standards for English Language Arts.

Textbook(s): TBA

Online Health Education

Online General Health and Wellness

Course Code: 797010
Prerequisites: Approval; Online survey; Parent Permission for Family life Unit
Credits: 0.5 Health

General Health and Wellness has six units: Mental Health; Tobacco, Alcohol, and Other Drugs; Nutrition and Fitness; Safety and Injury prevention; Family Life and Human Sexuality; and Disease Prevention and Control. Personal and Consumer Health is interwoven into other units. During the course, students study the basics of health and wellness, learning to make informed decisions concerning their physical, mental and social health. They learn skills to build self-esteem and manage stress, cope with loss and how to prevent violence and abuse. Students study physical fitness, weight and nutrition planning, and the ramifications of using alcohol, tobacco, and other illegal drugs. Students also study how to prevent infectious diseases and how to recognize and deal with other diseases and disabilities. They study the process of going from adolescence, to adulthood, marriage, and parenthood. They also study the reproductive system, pregnancy, and development of the fetus.
Online HTML and Web Design

Online Web Design 1 (Part A and Part B)

Course Code: 795103
Prerequisites: Approval; Online survey; One semester of Algebra I and strong computer skills; To participate in this course students using Mac must have a PowerPC® processor for Mac OS X, not an Intel® processor.
Credits: 1.0 Technology Education

The student is introduced to website design and development by learning the basic website design principles. Topics include networking, audience analysis, internet security, project management, and website navigation. Students will apply the principles to design and evaluate their own websites and the sites of others. Students will learn development languages such HTML and CSS. Throughout the course, students will complete practice activities, homework assignments and projects that allow them to apply the skills they have learned.

Resources: Vendor Provided

Online or Blended Mathematics

Online Advanced Placement Calculus AB

Course Code: 793150, 793160
Prerequisite: Approval; Online survey; Algebra 2; Geometry; Trig and Pre-Calculus or Math Analysis
Credits: 0.5 Math, Weighted

In AP Calculus AB, students learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Instead of simply getting the right answer, students learn to evaluate the soundness of proposed solutions and to apply mathematical reasoning to real-world models. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. The equivalent of an introductory college-level calculus course, AP Calculus AB prepares students for the AP Exam and further studies in science, engineering, and mathematics. Upon completion of this course students will be able to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal; understand the connections among these representations; understand the meaning of the derivative in terms of a rate of change and local linear approximation and be able to use derivatives to solve a variety or problems; understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change and should be able to use integrals to solve a variety of problems; and understand the relationship between the derivative and the definite integral as expressed in both parts of the fundamental theorem of calculus. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Required resources: TI-83 or TI-83 Plus calculator. Read “Getting Started” and Chapter 1 in the TI Guidebook before your course starts.

Online Advanced Placement Calculus BC

Course Code: 793170, 793180
Prerequisite: Approval; Online survey; Calculus or AP Calculus AB
Credits: 0.5 Math, Weighted

This curriculum covers all of the material outlined by the College Board as necessary to prepare students to pass the AP Calculus BC exam. This course is designed to acquaint students with calculus principles such as derivatives, integrals, limits, approximation, applications and modeling, and sequences and series. Students gain experience in the use of calculus methods and learn how calculus methods may be applied to practical applications. Upon completion of this course students will be able to work with functions represented in a variety of ways: graphical, numerical, analytical, or verbal; understand the connections among these representations; understand the meaning of the derivative in terms of a rate of change and local linear approximation and be able to use derivatives to solve a variety or problems; understand the meaning of the definite integral both as a limit of Riemann sums and as the net accumulation of change and should be able to use integrals to solve a variety of problems; and understand the relationship between the derivative and the definite integral as expressed in both parts of the fundamental theorem of calculus. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.


Online Advanced Placement Statistics, Part A, Part B

Course Code: 793210, 793220
Prerequisites: Approval; Algebra II or Math Analysis
Credits: 0.5 Math, Weighted

AP Statistics is a 36-week Advanced Placement course. Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. Students learn to design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography, and business. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Required resources: A TI-83+ or TI-84+ graphing calculator is required for this course.

Textbook(s): Provided Resources

Blended Algebra 1

Course Code: 793023
Prerequisites: Approval; Online survey; Preceding math course
Credits: 1.0 Algebra 1

Algebra I build students’ command of linear, quadratic, and exponential relationships. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include problem-solving with basic equations and formulas; measurement; an introduction to functions and problem solving; linear equations and systems of linear equations; exponents and exponential functions; sequences and functions; descriptive statistics; polynomials and factoring; quadratic equations and functions; and function transformations and inverses. This course supports all students as they develop computational fluency, deepen conceptual understanding, and apply Common Core’s eight mathematical practice skills. Students begin each lesson by discovering new concepts through guided instruction, and
then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them. Throughout the course students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments. This course is aligned with the Common Core State Standards for Mathematics.

Textbook(s): None

**Online Geometry**

*Course Code:* 793050, 793060  
*Prerequisites:* Approval; Algebra 1  
*Credits:* 0.5 Geometry

Geometry is a 36-week course with 36 lessons broken into two semesters (A and B) with 18 lessons during each semester. Each lesson takes 5-6 hours to complete and includes a quiz or assessment. Geometry begins by reviewing common terms and basic building blocks of Geometry. Students study all the different components of geometry including segments, rays, angles, chords, and transformations. The course is skill oriented, interactive, informative, and enjoyable. Students use a wide variety of online resources. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Textbook(s): Vendor Provided

**Blended Geometry**

*Course Code:* 793063  
*Prerequisites:* Approval; Online survey; Algebra 1  
*Credits:* 1.0 Geometry

Geometry builds upon students' command of geometric relationships and formulating mathematical arguments. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations. Course topics include reasoning, proof, and the creation of sound mathematical arguments; points, lines, and angles; triangles and trigonometry; quadrilaterals and other polygons; circles; congruence, similarity, transformations, and constructions; coordinate geometry; three-dimensional solids; and applications of probability. This course supports all students as they develop computational fluency, deepen conceptual understanding, and apply Common Core's eight mathematical practice skills. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them. Throughout the course students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments.

This course is aligned with the Common Core State Standards for Mathematics.

Textbook(s): TBA
Online Algebra 2

Course Code: 793030, 793040
Prerequisites: Approval; Online survey; Algebra 1; Geometry preferred
Credits: 0.5 Algebra 2

Algebra 2 is a 36-week course broken into two semesters (A and B) with 18 lessons during each semester. Each lesson takes 5-6 hours to complete and includes textbook readings, interactive chat, threaded discussion, online activities, and a quiz or assessment. Students review Algebra 1 concepts and explore further the concepts of equations, algebraic functions, exponential and trigonometric functions, analytic geometry, discrete mathematics, statistics, and probability. Each lesson includes Internet-based activities that complement the material taught in the lesson. Students use many online resources including LOGAL interactive activities, calculator activities, and research topics. There is a midterm, a review week, and final exam during each semester. Students are encouraged to participate in group research projects and activities throughout the course, so that they may collaborate with other students and instructors. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Required resources: Graphing computer software or a graphing calculator with a computer connection that allows uploading of graphics for inclusion in printed assignments.

Textbook(s): Algebra 2, Online 2004 edition, available from Holt, Rinehart, and Winston. This textbook is available entirely online in digital format. If students choose to use the digital format, they should purchase the one-year online subscription.

Blended Algebra 2

Course Code: 793043
Prerequisites: Approval; Online survey; High School Student; Algebra 1; Geometry preferred
Credits: 1.0 Mathematics

Algebra II introduces students to advanced functions, with a focus on developing a strong conceptual grasp of the expressions that define them. Students learn through discovery and application, developing the skills they need to break down complex challenges and demonstrate their knowledge in new situations.

Course topics include quadratic equations; polynomial functions; rational expressions and equations; radical expressions and equations; exponential and logarithmic functions; trigonometric identities and functions; modeling with functions; probability and inferential statistics; probability distributions; and sample distributions and confidence intervals.

This course supports all students as they develop computational fluency, deepen conceptual understanding, and apply Common Core’s eight mathematical practice skills. Students begin each lesson by discovering new concepts through guided instruction, and then confirm their understanding in an interactive, feedback-rich environment. Modeling activities equip students with tools for analyzing a variety of real-world scenarios and mathematical ideas. Journaling activities allow students to reason abstractly and quantitatively, construct arguments, critique reasoning, and communicate precisely. Performance tasks prepare students to synthesize their knowledge in novel, real-world scenarios and require that they make sense of multifaceted problems and persevere in solving them. Throughout the course students are evaluated through a diversity of assessments specifically designed to prepare them for the content, form, and depth of the Common Core assessments.

This course is aligned with the Common Core State Standards for Mathematics.

Textbook(s): TBA
**Blended PreCalculus**

*Course Code:* 793073  
*Prerequisites:* Approval; Online survey; High School Student; Algebra 2  
*Credits:* 1.0 Mathematics

Precalculus is a course that combines reviews 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. The first semester includes linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers. Within each Precalculus lesson, students are supplied with a post-study Checkup activity that provides them the opportunity to hone their computational skills by working through a low-stakes problem set before moving on to formal assessment. Unit-level Precalculus assessments include a computer-scored test and a scaffolded, teacher-scored test.

The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

Textbook(s): TBA

**Blended Probability and Statistics**

*Course Code:* 793083  
*Prerequisites:* Approval; Online survey; High School Student; Algebra 2  
*Credits:* 1.0 Probability and Statistics

Probability and Statistics provides a curriculum focused on understanding key data analysis and probabilistic concepts, calculations, and relevance to real-world applications. Through a "Discovery-Confirmation-Practice"-based exploration of each concept, students are challenged to work toward a mastery of computational skills, deepen their understanding of key ideas and solution strategies, and extend their knowledge through a variety of problem-solving applications. Course topics include types of data; common methods used to collect data; and the various representations of data, including histograms, bar graphs, box plots, and scatterplots. Students learn to work with data by analyzing and employing methods of prediction, specifically involving samples and populations, distributions, summary statistics, regression analysis, transformations, simulations, and inference.

Ideas involving probability — including sample space, empirical and theoretical probability, expected value, and independent and compound events — are covered as students explore the relationship between probability and data analysis. The basic connection between geometry and probability is also explored. To assist students for whom language presents a barrier to learning or who are not reading at grade level, Probability and Statistics includes audio resources in English. The content is based on the National Council of Teachers of Mathematics (NCTM) standards and is aligned with state standards.

Textbook(s): TBA

**Online Honors Calculus**

*Course Code:* 793130, 793140  
*Prerequisites:* Approval; Algebra II or Math Analysis  
*Credits:* 0.5 Math

Calculus is a 36-week course with 36 lessons, each of which takes 5-6 hours. The text emphasizes multiple representations of concepts and an abundance of worked examples. Calculus is explored through the interpretation of graphs and tables as well as through the application of analytical methods.
Online exercises include graphical and data based problems as well as real-life applications in biology, business, chemistry, economics, engineering, finance, physics, the social sciences and statistics. Stepped Explorations throughout the text provide guided investigations of key concepts and assist students in building problem-solving skills. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Required resources: A TI-83+ or TI-84+ graphing calculator is required for this course.

Textbook(s): Additional Vendor Provided Resources

**Online Music**

**Online Music Appreciation**

*Course Code:* 796203  
*Prerequisites:* Approval; Online survey  
*Credits:* 1.0 Fine Art

Music Appreciation is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms, classical music, and American jazz. The second semester presents the rich modern traditions, including: gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet are bringing musical forms together in new ways from all around the world.

Textbook(s): Vendor Provided

**Blended Music Appreciation**

*Course Code:*  
*Prerequisites:* Approval  
*Credits:* 0.5 Fine Arts

Blended Music Appreciation is a streamlined course that introduces student to the history, theory, and genres of music, from the most primitive surviving examples, through the classical to the most contemporary in the world at large. The course is offered in a two-semester format: The first semester covers primitive musical forms, classical music, and American jazz. The second semester presents the rich modern traditions, including: gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip-hop. The course explores the interface of music and social movements and examines how the emergent global society and the Internet are bringing musical forms together in new ways from all around the world.

Resource(s): Vendor Provided

**Online Science**

**Online Advanced Placement Biology, Part A, Part B**

*Course Code:* 794110, 794120  
*Prerequisites:* Approval; Biology and Chemistry  
*Credits:* 0.5 Science, Weighted
In AP Biology, students build the conceptual framework necessary to understand science as a process. The course is divided into three sections with correlating laboratory exercises: molecules and cells; heredity and evolution; and organisms and populations. Students will also explore evolution, energy transfer, continuity and change, the relationship of structure to function, regulation, interdependence in nature, and the balance of science, technology, and nature. AP Biology is equivalent to an introductory college-level biology course and prepares students for the AP Exam and for further study in health sciences. The content aligns to the scope and sequence specified by the College Board. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Required resources: Vendor Provided. There may be additional costs for lab materials.

**Online Advanced Placement Chemistry**

**Course Code:** 794330, 794340  
**Prerequisites:** Approval; Online survey; Chemistry and Algebra II  
**Credits:** 0.5 Science, Weighted

AP Chemistry builds students’ understanding of the nature and reactivity of matter. After studying the structure of atoms, molecules, and ions, students move on to solve quantitative chemical problems and explore how molecular structure relates to chemical and physical properties. Students will examine the molecular composition of common substances and learn to predictably transform them through chemical reactions. The equivalent of an introductory college-level chemistry course, AP Chemistry prepares students for the AP Exam and for further study in science, health sciences, or engineering.

The content aligns to the scope and sequence specified by the College Board. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Required resources: The majority of the required instructional material for this course is available to students online and is equivalent to a college-level textbook. Students will need a lab supervisor and materials specified in the course. Each laboratory activity is self-contained; no manual is needed. A collection of lab reports is comparable to a lab manual or notebook. There may be additional costs for lab materials.

**Online Advanced Placement Environmental Science**

**Course Code:** 794230, 794240  
**Prerequisites:** Approval  
**Credits:** 0.5 Science, Weighted

This curriculum covers all of the material outlined by the College Board as necessary to prepare students to pass the AP Environmental Science exam. This course is designed to acquaint students with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the inter-relationships between humans and the natural environment. The course shows how ecological realities and the material desires of humans often clash, leading to environmental degradation and pollution. The course covers the following topics: Earth’s Systems, Human Population Dynamics, Natural Resources, Environmental Quality, Global Changes, and Environment and Society. Upon completion of this course students will know and understand the levels of the ecological hierarchy, appreciate the integration of natural processes that govern the natural world, appreciate the importance of maintaining a sustaining biosphere for the continued presence of a human population on the earth, understand the pragmatic and realistic difficulties of integrating human societal needs without further compromising ecological processes, become familiar with the ecological background to global environmental problems, and realize the consequences of our individual and joint actions upon the biosphere. Students may take the first
semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Textbook(s): Principles of Environmental Science: Vendor Provided

**Online Biology**

*Course Code:*  794113  
*Prerequisites:* Approval; Integrating the Sciences  
*Credits:*  1.0 Biology  

Biology focuses on the mastery of basic biological concepts and models while building scientific inquiry skills and exploring the connections between living things and their environment.  

The course begins with an introduction to the nature of science and biology, including the major themes of structure and function, matter and energy flow, systems, and the interconnectedness of life. Students then apply those themes to the structure and function of the cell, cellular metabolism, and biogeochemical cycles. Building on this foundation, students explore the connections and interactions between living things by studying genetics, ecosystems and natural selection, and evolution. The course ends with an applied look at human biology. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about the concepts.

Textbook(s): Vendor Provided

**Blended Biology**

*Course Code:*  794123  
*Prerequisites:* Approval  
*Credits:*  1.0 Biology  

This year-long high school course engages students in the study of life and living organisms, and examines biology and biochemistry in the real world. The course encompasses traditional concepts in biology and encourages exploration of new discoveries in the field. The components include biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology. This course is aligned with the Next Generation Science Standards, which were developed by states to improve science education for all students. The goals of these standards are to develop a thorough understanding of content as well as improve key skills like communication, collaboration, inquiry, problem solving, and creative thinking.

Resource(s): Vendor Provided

**Online Chemistry**

*Course Code:*  794353  
*Prerequisites:* Approval; Algebra  
*Credits:*  1.0 Chemistry  

Chemistry offers a curriculum that emphasizes students’ understanding of fundamental chemistry concepts while helping them acquire tools to be conversant in a society highly influenced by science and technology. The course provides students with opportunities to learn and practice critical scientific skills within the context of relevant scientific questions. Topics include the nature of science, the importance of chemistry to society, atomic structure, bonding in matter, chemical reactions, redox reactions, electrochemistry, phases of matter, equilibrium and kinetics, acids and bases, thermodynamics, quantum mechanics, nuclear reactions, organic chemistry, and alternative energy. Scientific inquiry skills are embedded in the direct instruction, wherein students learn to ask scientific questions, form and test hypotheses, and use logic and evidence to draw conclusions about concepts. Lab activities reinforce critical thinking, writing, and communication skills and help students
Blended Chemistry

Course Code: 794323
Prerequisites: Approval
Credits: 1.0 Chemistry

This rigorous, full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes eighteen virtual laboratory experiments that encourage higher-order thinking applications, with wet lab options if preferred. The components of this course include chemistry and its methods, the composition and properties of matter, changes and interactions of matter, factors affecting the interactions of matter, electrochemistry, organic chemistry, biochemistry, nuclear chemistry, mathematical applications, and applications of chemistry in the real world.

Resource(s): Vendor Provided

Online Environmental Science

Course Code: 794210, 794220
Prerequisites: Approval
Credits: 0.5 Science

This course is designed to acquaint students with the physical, ecological, social, and political principles of environmental science. The scientific method is used to analyze and understand the inter-relationships between humans and the natural environment. The course shows how ecological realities and the material desires of humans often clash, leading to environmental degradation and pollution. The course covers the earth’s systems, human population dynamics, natural resources, environmental quality, global changes, and environment and society. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Textbook(s): Vendor Provided

Online Physics

Course Code: 794410, 794420
Prerequisites: Approval; Algebra I
Credits: 0.5 Science

The science of physics involves the discovery of patterns and relationships in natural phenomena. Students learn to explain, according to the laws of physics, the events that occur in the world around them. Through text, graphics, and interactive simulations, they will investigate straight-line motion, motion in two dimensions, energy, relativity, properties of matter, change of state, heat, and temperature during the first semester. During the second semester, students will investigate wave motion, sound, light, reflection and refraction, color, magnetism, electricity, and nuclear physics. Students successfully completing this course will be able to increase their knowledge of the physical world by concentrating on major concepts of physics instead of isolated facts and formulas; explore how physics applies to everyday life; and test new ideas by making observations, collecting evidence, searching for patterns, and proposing hypotheses to explain the observed relationships. Students
may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Textbook(s): Vendor Provided

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**Online Social Studies, Political Science, and Economics**

**Online Advanced Placement American History**

Course Code:  792150, 792160  
Prerequisites: Approval; American History; Students in grade 11 or 12 only  
Credits:  0.5 Elective; Weighted  
The AP United States History course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States History. Students will learn to analyze and interpret a variety of historical resources and develop the ability to use documentary materials, maps, pictorial, and graphic evidence of historical events. Students should be able to express themselves with clarity, maturity, and precision. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1. This course may be offered to students in grades 11 and 12 only.

Textbook(s): Vendor Provided

**Online Advanced Placement Art History (Part A and Part B)**

Course Code:  796110, 796120  
Prerequisites: Approval; Successful completion of World History is recommended.  
Credits:  .5 Fine Arts per segment, Weighted  
AP Art History is a 36-week course with 28 lessons, each of which takes approximately 1-1/2 weeks. Students will investigate the history of art and the intricacies of composition, color and presentation. This course is designed to provide college-level instruction in art history and prepare the student for the AP exam. The student will examine major forms of artistic expression from the past and present and from a variety of cultures. The student will also learn to look at works of art critically, with intelligence and sensitivity, and to articulate what he sees or experiences. Students may take the first semester of the course without taking the second semester but may not take semester 2 without taking semester 1.

Resource(s): Vendor Provided

**Online Advanced Placement Human Geography**

Course Code:  792310  
Prerequisites: Approval; Grade 11 or 12  
Credits:  0.5 Elective; Weighted  
Human Geography includes readings, interactive activities, peer-to-peer learning, threaded discussion, virtual class, and a quiz or an assessment. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface.
Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Course content is aligned to the recommendation of the College Board AP Human Geography Course and either meets or exceeds those recommendations. Students taking Human Geography should demonstrate an above average interest in geography and should be either a junior or a senior in high school.

Textbook(s): Vendor Provided

**Online Advanced Placement Macroeconomics**

**Course Code:** 792410  
**Prerequisites:** Approval; Algebra II or Math Analysis; Students in grade 11 or 12 only  
**Credits:** 0.5 Elective

Macroeconomics is an 18-week Advanced Placement course and is the equivalent of an introductory, one-semester, college-level Macroeconomics course. Students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. The equivalent of a 100-level college-level class, this course prepares students for the AP Exam and for further study in business, political science, and history. This course may be offered as an elective to students in grades 11 and 12 only.

Textbook(s): Vendor Provided

**Online Advanced Placement Microeconomics**

**Course Code:** 792510  
**Prerequisites:** Approval; Algebra I; Students in grade 11 or 12 only  
**Credits:** 0.5 Elective

Microeconomics is an 18-week Advanced Placement course and is the equivalent of an introductory, one-semester, college-level Microeconomics course. Students investigate the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, and at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under different economic conditions. The equivalent of an introductory college level course, AP Microeconomics prepares students for the AP Exam and for further study in business, history, and political science. This course may be offered as an elective to students in grades 11 and 12 only.

Textbook(s): Vendor Provided

**Online American Government (HSA)**

**Course Code:** 792210, 792220  
**Prerequisites:** Approval  
**Credits:** 0.5 Local, State, National Government

Introduction to the American Government prepares students to identify, understand, and work to resolve problems that confront them, their communities, the nation, and the world. To accomplish these tasks and work effectively as citizens, students need to learn about the role that economics, geography, history and sociopolitical concepts have played in the development of their own society and societies around the world. As students progress through public schools in Maryland, they should develop the knowledge and skills to understand and cope with change, resolve conflict, analyze issues and appreciate diversity in a representative democracy. In this course, students study the purpose, forms, and types of political and economic structures, the three branches of government, the development
and implementation of domestic and foreign policy, the role of economic and geography on national, state and local government, and the responsibilities of being an effective citizen. Students engage in analysis and interpretation of documents, events, and issues that affect individuals and groups and the functioning of government. Imbedded activities and resources help low literacy learners. Students analyze primary source documents, policy evaluation, problem-solving decision making, and data use. Students may take the first half-credit of the course without taking the second half-credit but may not take the second half-credit of the course without taking the first half-credit.

Textbook(s): None

**Online International Baccalaureate Psychology SL**

*Course Code: 792143*
*Prerequisites: Approval; Online survey*
*Credits: 1.0 Elective*

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 Online IB Psychology SL is 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 methodology.

Textbook(s): TBA

**Online U.S. History I**

*Course Code: 792110, 792120*
*Prerequisites: High School Student*
*Credits: 0.5 U.S. History*

Upon completion of this course students will demonstrate comprehension of a broad body of historical knowledge; express ideas clearly in writing; work with classmates to research an historical issue; interpret and apply data from original documents; identify underrepresented historical viewpoints; write to persuade with evidence; compare and contrast alternate interpretations of an historical figure, event, or trend. They will also explain how an historical event connects to or causes a larger trend or theme; develop essay responses that include a clear, defensible thesis statement and supporting evidence; effectively argue a position on an historical issue; evaluate primary materials, such as historical documents, political cartoons, and first-person narratives; raise and explore questions about policies, institutions, beliefs, and actions in an historical context; critique and respond to arguments made by others; and evaluate secondary materials, such as scholarly works or statistical analyses. Students may take the first half-credit of the course without taking the second half-credit but may not take the second half-credit of the course without taking the first half-credit.


**Blended US History**

*Course Code: 792163*
*Prerequisites: Approval; Online survey; High School Student*
*Credits: 1.0 US History*

U.S. History traces the nation’s history from the pre-colonial period to the present. Students learn about the Native American, European, and African people who lived in America before it became the United States. They examine the beliefs and philosophies that informed the American Revolution and the subsequent formation of the government and political system. Students investigate the
economic, cultural, and social motives for the nation’s expansion, as well as the conflicting notions of liberty that eventually resulted in civil war. The course describes the emergence of the United States as an industrial nation and then focuses on its role in modern world affairs.

Moving into the 20th and 21st centuries, students probe the economic and diplomatic interactions between the United States and other world players while investigating how the world wars, the Cold War, and the “information revolution” affected the lives of ordinary Americans. Woven through this chronological sequence is a strong focus on the changing conditions of women, African Americans, and other minority groups.

The course emphasizes the development of historical analysis skills such as comparing and contrasting, differentiating between facts and interpretations, considering multiple perspectives, and analyzing cause-and-effect relationships. These skills are applied to text interpretation and in written assignments that guide learners step-by-step through problem-solving activities.

The content is based on standards from the National Council for History Education (1997), the National Center for History in the Schools (1996), and the National Council for Social Studies (1994) and is aligned to state standards.

Textbook(s): TBA

**Blended World Geography**

Course Code: 792330
Prerequisites: Approval; Online survey; High School Student
Credits: 0.5 Social Studies

Geography and World Cultures offers a tightly focused and scaffolded curriculum that enables students to explore how geographic features, human relationships, political and social structures, economics, science and technology, and the arts have developed and influenced life in countries around the world. Along the way, students are given rigorous instruction on how to read maps, charts, and graphs, and how to create them.

Textbook(s): TBA

**Blended Psychology**

Course Code: 792350
Prerequisites: Approval; Online survey; High School Student
Credits: 0.5 Social Studies

Psychology provides a solid overview of the field’s major domains: methods, biopsychology, cognitive and developmental psychology, and variations in individual and group behavior. By focusing on significant scientific research and on the questions that are most important to psychologists, students see psychology as an evolving science. Each topic clusters around challenge questions, such as “What is happiness?” Students answer these questions before, during, and after they interact with direct instruction. The content is based on the American Psychological Association’s National Standards for High School Psychology Curricula. The teaching methods draw from the National Science Teachers Association (NSTA) teaching standards.

Textbook(s): TBA

**Blended Sociology**

Course Code: 792340
Prerequisites: Approval; Online survey
Credits: .5 Social Studies

Sociology examines why people think and behave as they do in relationships, groups, institutions,
and societies. Major course topics include individual and group identity, social structures and institutions, social change, social stratification, social dynamics in recent and current events, the effects of social change on individuals, and the research methods used by social scientists.

In online discussions and polls, students reflect critically on their own experiences and ideas, as well as on the ideas of sociologists. Interactive multimedia activities include personal and historical accounts to which students can respond, using methods of inquiry from sociology. Written assignments provide opportunities to practice and develop skills in thinking and communicating about human relationships, individual and group identity, and all other major course topics. The course content is based on the National Council for the Social Studies (NCSS) Expectations of Excellence: Curriculum Standards for Social Studies.

Textbook(s): TBA

**Blended World History**

*Course Code: 792283*

*Prerequisites: Approval; Online survey*

*Credits: 1.0 Social Studies*

In World History, students learn to see the world today as a product of a process that began thousands of years ago when humans became a speaking, travelling, and trading species. Through historical analysis grounded in primary sources, case studies, and research, students investigate the continuity and change of human culture, governments, economic systems, and social structures.

Students build and practice historical thinking skills, learning to connect specific people, places, events and ideas to the larger trends of world history. In critical reading activities, feedback-rich instruction, and application-oriented assignments, students develop their capacity to reason chronologically, interpret and synthesize sources, identify connections between ideas, and develop well-supported historical arguments. Students write throughout the course, responding to primary sources and historical narratives through journal entries, essays and visual presentations of social studies content. In discussion activities, students respond to the position of others while staking and defending their own claim. The course’s rigorous instruction is supported with relevant materials and active learning opportunities to ensure students at all levels can master the key historical thinking skills.

This course is aligned to state standards and the Common Core State Standards for Literacy in Social Studies.

Textbook(s): TBA

**Online World Languages**

**Online AP French Language A**

*Course Code: 791270*

*Prerequisites: French 3*

*Credits: 0.5*

Designed by the College Board to parallel third-year college-level courses in French language, AP French Language and Culture courses build upon prior knowledge and develop students’ ability to express ideas, exchange opinions, and present information in French, both orally and in writing. These courses also help students in understanding and interpreting written and spoken French. In addition, students explore the culture of French-speaking people in historical and contemporary contexts.

Textbook(s): TBA
**Online AP French Language B**
*Course Code: 791280*
*Prerequisites: French 4*
*Credits: 0.5*

Designed by the College Board to parallel third-year college-level courses in French language, AP French Language and Culture courses build upon prior knowledge and develop students’ ability to express ideas, exchange opinions, and present information in French, both orally and in writing. These courses also help students in understanding and interpreting written and spoken French. In addition, students explore the culture of French-speaking people in historical and contemporary contexts.

Textbook(s): TBA

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**Online Advanced Placement French Language and Culture**
*Course Code: 791393*
*Prerequisites: Approval; Online survey; French 4*
*Credits: 1.0 Foreign Language*

In this full-year course, students will master the concepts of the language needed to succeed on the AP exam and be able to use the language to translate text, as well as use the language both verbally and in writing. Students will use the French language to present information and personal opinions and feelings; understand and interpret written and spoken language on diverse topics from diverse media; understand that different languages use different patterns to communicate and apply this knowledge to the use of the French language; demonstrate, in writing and in speaking, an ability-appropriate understanding of the structures and uses of French verb forms; demonstrate, in writing and in speaking, an ability-appropriate understanding of parts of speech and their use in the French sentence. The course includes AP exam practice items.

Textbook(s): TBA

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**Online Advanced Placement Spanish Language and Culture**
*Course Code: 791493*
*Prerequisites: Approval; Online survey; Spanish 4*
*Credits: 1.0 Foreign Language*

In this full-year course, students will master the concepts of the language needed to succeed on the AP exam and be able to use the language to translate text, as well as use the language both verbally and in writing. Students will use the Spanish language to present information and personal opinions and feelings; understand and interpret written and spoken language on diverse topics from diverse media; understand that different languages use different patterns to communicate and apply this knowledge to the use of the Spanish language; demonstrate, in writing and in speaking, an ability-appropriate understanding of the structures and uses of Spanish verb forms; demonstrate, in writing and in speaking, an ability-appropriate understanding of parts of speech and their use in the Spanish sentence. The course includes AP exam practice items.

Textbook(s): Vendor Provided
Online Chinese, French, Latin, or Spanish 1

Course Code: 791210, 791220 Chinese 1
541310, 791320 French 1
791510, 791520 Latin 1
791410, 791420 Spanish 1

Prerequisites: Approval; Online survey

Credits: 0.5 Foreign Language

Students will master the beginning concepts of the language and be able to use the language to translate text, as well as use the language both verbally and in writing. This course will give students a solid grounding in the structure of the language. Students will engage in short conversations about personal interests, including what they do, are doing, and plan to do; understand spoken and written language on familiar topics that incorporates basic structures and strong visual support; make short presentations and write simple sentences on familiar topics regarding what they do, are doing, or plan to do; and identify and describe cultural practices in the target countries and discuss their importance. They also will identify and describe the products within the target culture and discuss their importance; access and apply information and skills from other content areas to extend knowledge and skills in the target language; demonstrate a greater understanding of various topics by examining them from the perspectives of other cultures where the language is spoken; gain insight into the nature of their own language by comparing how a different language system expresses meaning and reflects culture; compare the perspectives, practices, and products of people in different cultures; and use and extend their language proficiency and cultural knowledge through face-to-face encounters and/or the use of technology both within and beyond the school setting. Students may take the first half-credit of the course without taking the second half-credit but may not take the second half-credit of the course without taking the first half-credit.

Textbook(s): TBA

Online French, Latin, and Spanish 2

Course Code: 791330, 791340 French 2
791530, 791540 Latin 2
791430, 791440 Spanish 2

Prerequisites: Approval; Online survey; Same Language Level 1

Credits: 0.5 Foreign Language

Students will master the emerging (intermediate) concepts of the language and be able to use the language to translate text, as well as use the language both verbally and in writing. This course will give students a solid grounding in the structure of the language. Students will engage in short conversations about personal interests, including what they do, are doing, and plan to do; understand spoken and written language on familiar topics that incorporates basic structures and strong visual support; make short presentations and write simple sentences on familiar topics regarding what they do, are doing, or plan to do; demonstrate knowledge and understanding of another people’s way of life, and the relationship between their patterns of behavior, and the underlying beliefs and values that guide and shape their lives; identify and describe the products within the target culture and discuss their importance; access and apply information and skills from other content areas to extend knowledge and skills in the target language; demonstrate a greater understanding of various topics by examining them from the perspectives of other cultures where the language is spoken; compare the perspectives, practices, and products of people in different cultures; and use and extend their language proficiency and cultural knowledge through face-to-face encounters and/or the use of technology both within and beyond the school setting; and explore opportunities both at home and abroad and have access to a wider variety of resources where they can pursue topics of personal interest. Students
may take the first half-credit of the course without taking the second half-credit but may not take the second half-credit of the course without taking the first half-credit.

Textbook(s): TBA

**Online French, Latin, and Spanish 3**

- **Course Code:** 791350, 791360 French 3  
  791550, 791560 Latin 3  
  791450, 791460 Spanish 3

- **Prerequisites:** Approval; Same Language Level 2

- **Credits:** 0.5 Foreign Language

Students will master the concepts of the language at the developing level and be able to use the language to translate text, as well as use the language both verbally and in writing. Students will engage in short conversations about personal interests, including what they do, are doing, and plan to do; understand spoken and written language on familiar topics that incorporates basic structures and strong visual support; make short presentations and write simple sentences on familiar topics regarding what they do, are doing, or plan to do; demonstrate knowledge and understanding of another people’s way of life, and the relationship between their patterns of behavior, and the underlying beliefs and values that guide and shape their lives; identify and describe the products within the target culture and discuss their importance; access and apply information and skills from other content areas to extend knowledge and skills in the target language; demonstrate a greater understanding of various topics by examining them from the perspectives of other cultures where the language is spoken; gain insight into the nature of their own language by comparing how a different language system expresses meaning and reflects culture; compare the perspectives, practices, and products of people in different cultures; use and extend their language proficiency and cultural knowledge through face-to-face encounters and/or the use of technology both within and beyond the school setting; and explore opportunities both at home and abroad and have access to a wider variety of resources where they can pursue topics of personal interest. Students may take the first half-credit of the course without taking the second half-credit but may not take the second half-credit of the course without taking the first half-credit.

Textbook(s): TBA

**Online French 1**

- **Course Code:** 791323

- **Prerequisites:** Approval

- **Credits:** 1.0 World Language French

Students learn to greet people, describe family and friends, talk about hobbies, and communicate about other topics, such as sports, travel, and medicine. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Vocabulary includes terms to describe school subjects, parts of the body, and people, as well as idiomatic phrases. Instruction in language structure and grammar includes the verb system, adjective agreement, formal and informal address, reflexive verbs, and past tense. Students also gain an understanding of the cultures of French-speaking countries and regions within and outside Europe, as well as insight into Francophone culture and people.

The material in this course is presented at a moderate pace. The content is based on the American Council on the Teaching of Foreign Languages (ACTFL) standards.

Textbook(s): TBA
**Blended French 1**

*Course Code: 791300*

*Prerequisites: Approval*

*Credits: 1.0  French 1*

French I teaches students to greet people, describe family and friends, talk about hobbies, and communicate about other topics, such as sports, travel, and medicine. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Vocabulary includes terms to describe school subjects, parts of the body, and people, as well as idiomatic phrases. Instruction in language structure and grammar includes the verb system, adjective agreement, formal and informal address, reflexive verbs, and past tense. Students also gain an understanding of the cultures of French-speaking countries and regions within and outside Europe, as well as insight into Francophone culture and people.

*Resource(s): Vendor Provided*

**Online Spanish 1**

*Course Code: 791423*

*Prerequisites: Approval; Online survey*

*Credits: 1.0  World Language*

Students learn to greet people, describe family and friends, talk about hobbies, and communicate about other topics, such as home life, occupations, travel, and medicine. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Vocabulary includes terms to describe school subjects, parts of the body, and people, as well as idiomatic phrases. Instruction in language structure and grammar includes the structures and uses of present-tense verb forms, imperatives, adjective agreement, impersonal constructions, formal and informal address, and reflexive verbs. Students explore words used in different Spanish-speaking regions and learn about the cultures of Spanish-speaking countries and regions within and outside Europe.

The material in this course is presented at a moderate pace. The content is based on the American Council on the Teaching of Foreign Languages (ACTFL) standards. (APEX course approved through school year 2019)

*Textbook(s): TBA*

**Blended Spanish 1**

*Course Code: 791043*

*Prerequisites: Approval*

*Credits: 1.0  Spanish 1*

Spanish I teaches students to greet people, describe family and friends, talk about hobbies, and communicate about other topics, such as home life, occupations, travel, and medicine. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Vocabulary includes terms to describe school subjects, parts of the body, and people, as well as idiomatic phrases. Instruction in language structure and grammar includes the structures and uses of present-tense verb forms, imperatives, adjective agreement, impersonal constructions, formal and informal address, and reflexive verbs. Students explore words used in different Spanish-speaking regions and learn about the cultures of Spanish-speaking countries and regions within and outside Europe.

*Resource(s): Vendor Provided*
Online Spanish 2

Course Code: 791443
Prerequisites: Approval; Online survey; Spanish 1
Credits: 1.0 World Language

Building on Spanish I concepts, Spanish II students learn to communicate more confidently about themselves, as well as about topics beyond their own lives - both in formal and informal situations. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Students expand their vocabulary in topics such as cooking, ecology, geography, and architecture. Instruction in language structure and grammar includes a review of present-tense verb forms, an introduction to the past tense, the conditional mood, imperatives, impersonal constructions, and reported speech. Students deepen their knowledge of Spanish-speaking regions and cultures by learning about history, literature, culture, and contemporary issues. The material in this course is presented at a moderate pace. The content is based on the American Council on the Teaching of Foreign Languages (ACTFL) standards. (APEX course approved through school year 2019)

Textbook(s): None

Blended Spanish 2

Course Code: 791413
Prerequisites: Approval; Spanish 1
Credits: 1.0 Spanish 2

Building on Spanish I concepts, Spanish II students learn to communicate more confidently about themselves, as well as about topics beyond their own lives - both in formal and informal situations. Each lesson presents vocabulary, grammar, and culture in context, followed by explanations and exercises. Students expand their vocabulary in topics such as cooking, ecology, geography, and architecture. Instruction in language structure and grammar includes a review of present-tense verb forms, an introduction to the past tense, the conditional mood, imperatives, impersonal constructions, and reported speech. Students deepen their knowledge of Spanish-speaking regions and cultures by learning about history, literature, culture, and contemporary issues.

Resource(s): Vendor Provided

Mathematics

Advanced Placement Calculus (AB)

Course Code: 380003
Prerequisites: Successful completion of Pre-Calculus
Credits: 1.0 Math, Weighted

Students who study AP Calculus (BC) will learn all of the topics covered in AP Calculus (AB) as well as the analysis of planar curves given in parametric form, polar form, and vector form; geometric interpretation of differential equations via slope fields; advanced techniques for antidifferentiation; models for logistic growth; and the convergence and divergence of series including the use of Taylor polynomials. The Advanced Placement Calculus BC exam is expected of all students in this course. Students must successfully complete Pre-Calculus before they can enroll in AP Calculus BC.

Textbook(s): TBD
Dual Credit: Earning credit for MAT 2410 Calculus 1 at Prince George’s Community College makes a student eligible for 380023 Calculus AB DE credit.

**Advanced Placement Calculus (BC)**

**Course Code:** 380103  
**Prerequisites:** Successful completion of Pre-Calculus  
**Credits:** 1.0 Math, Weighted

Students who study AP Calculus (BC) will learn all of the topics covered in AP Calculus (AB) as well as the analysis of planar curves given in parametric form, polar form, and vector form; geometric interpretation of differential equations via slope fields; advanced techniques for antidifferentiation; models for logistic growth; and the convergence and divergence of series including the use of Taylor polynomials.

Textbook(s): *TBD*

**Advanced Placement Computer Science**

**Course Code:** 345003  
**Prerequisites:** Successful completion of Algebra 2  
**Credits:** 1.0 Math, Weighted

This full year course provides programming experiences, which include features of programming languages, data types and structures, algorithms, applications of computing, games, and computer systems. The programming language taught in this course is JAVA. This course prepares a student to take the AP Computer Science Exam. The Advanced Placement Computer Science exam is expected of all students in this course. Students must successfully complete Algebra 2 before they can enroll in Advanced Placement Computer Science.

Textbook(s): *TBD*

**Advanced Placement Statistics**

**Course Code:** 398003  
**Prerequisites:** Successful Completion of Algebra 2  
**Credits:** 1.0 Math, Weighted

The AP Statistics course is an excellent option for any student who has successfully completed Algebra 2, Probability Statistics or Trigonometry. This course is comprised of four content themes: exploring data to describe patterns and departures from patterns, sampling and experimentation to plan and conduct a study, anticipating patterns by exploring random phenomena using probability and simulation, and statistical inference through estimating population parameters and testing hypotheses. The Advanced Placement Statistics exam is expected of all students in this course. Students must successfully complete Algebra 2 before they can enroll in AP Statistics.

Textbook(s): *TBD*

Dual Credit: Earning credit for MAT 1140 Introduction to Statistics at Prince George’s Community College makes a student eligible for 374000 Introduction to Statistics DE credit.

**Algebra 1**

**Course Code:** 323503  
**Prerequisites:** Math 8 or Foundations for Algebra  
**Credits:** 1.0 Algebra 1

Algebra 1 formalizes and extends the mathematics students learned in the middle grades. Six critical
areas comprise Algebra 1: Relationships Between Quantities and Reasoning with Equations, Linear Functions, Exponential Functions, Quadratic Functions, Descriptive Statistics, and a survey of other Nonlinear Functions. The critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

323533 Supported Inclusion - This course is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs;

323573, 323673 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

323583, 323683 - Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education education program.

323513 S/T, 323553 ESOL


**Algebra 1 Lab**

**Course Codes**: 323703

**Prerequisites**: Math 8 or Foundations for Algebra, Concurrent enrollment in Algebra 1

**Credits**: 1.0 Elective

Algebra 1 Lab is a gateway course for all students in high school, and builds upon a number of key algebraic topics that will later lead into both Geometry and Algebra 2 courses. The Algebra 1 Lab is designed for 9th students currently enrolled in Algebra 1 to reinforce the same essential math content they will encounter in their Algebra 1 class. Algebra 1 Lab is NOT a remedial program. Students will acquire transferable knowledge in Algebra content allowing them to draw on these experiences with confidence and persistence when in their Algebra 1 classroom. Students will be placed based on assessment proficiency and previous course grades. The course provides an elective credit, however it does NOT satisfy the graduation requirement for a mathematics credit nor the 4th year mathematics enrollment requirement.


**Algebra 2**

**Course Code**: 362403, 362433, 362473

**Prerequisites**: Successful completion of Geometry

**Credits**: 1.0 Math

Algebra 2 continues to work with linear, quadratic, and exponential functions. Students extend their repertoire of functions to include polynomial, rational, radical, and trigonometric functions. In this course rational functions are limited to those whose denominators are of degree at most one and denominators of degree at most 2; radical functions are limited to square roots or cube roots of at most quadratic polynomials. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics
as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students must successfully complete Geometry before they can enroll in Algebra 2.

362433 Support Inclusion - This course is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs;

362473 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

362453 ESOL

Textbook(s): *enVision Algebra 2, ISBN 9780328931569*

Dual Credit: Earning credit for MAT 1350 College Algebra at Prince George's Community College makes a student eligible for 381003 College Algebra DE credit.

**Application in Algebra for ELLs**

Course Code: 301003  
Prerequisites: English Language Learner  
Credits: 1.0 Math

In this course, students take a broader look at computational and problem-solving skills while learning the language and concepts of algebra. The focal points in this course include translating word phrases and sentences into mathematical expressions, determining whether a relation is a function and how to describe its domain and range, and developing algebraic fluency by developing the skills needed to solve equations and perform manipulations with numbers and variables. Additionally, students will learn to read and understand word problems, communicate about mathematics, build disciplinary and academic vocabulary, and develop practices in mathematics by engaging in “Language of Math”. This course addresses all of the essential knowledge and skills for mathematics and is designed to prepare students for Algebra 1. This course addresses the required content as well as provides language support to students whose first language is not English.

Textbook(s): Teacher created workbook

**Calculus 2**

Course Code: 395100  
Prerequisites: Successful completion of Advanced Placement Calculus AB  
Credits: 0.5 Math, Weighted

This is a semester course taken concurrently with Differential Equations. This course will allow students to continue their study of calculus from AP Calculus with topics in advanced techniques of integration, infinite series, parametric equations, polar coordinates, and conic sections. Students must successfully complete Advanced Placement Calculus AB before they can enroll in Calculus 2.

Textbook(s): *TBD*

Dual Credit: Earning credit for MAT 2420 Calculus 2 at Prince George’s Community College makes a student eligible for 395110 Calculus 2 DE credit.

**Differential Equations**

Course Code: 396000  
Prerequisites: Successful completion of Advanced Placement Calculus AB or BC  
Credits: 0.5 Math, Weighted

This is a semester course that can be taken concurrently with Calculus 2. This course provides
students with experiences in ordinary differential equations and their applications. Students will study first order equations, linear second order equations, Fourier and Laplace transformations and first order systems of equations. Students must successfully complete Advanced Placement Calculus AB before they can enroll in Differential Equations.

Textbook(s): TBD

**Foundations for College Algebra**

*Course Code:* 353123, 353153 (ESOL)

*Prerequisites:* Successful completion of Algebra 2

*Credits:* 1.0 Mathematics

Foundations for College Algebra reviews topics from Algebra 1 Common Core and Algebra 2 Common Core while extending to topics from advanced algebra. Concepts include systems of equations and inequalities; linear, exponential, and quadratic functions; polynomial, rational, and radical expressions and functions; and applications of complex numbers, logarithms. Additional topics will include conics, sequences and series and the binomial theorem. This course is designed to prepare students for success in post-secondary mathematics as well as the SAT, ACT and Accuplacer assessments. Students must successfully complete Algebra 2 before they can enroll in Foundations for College Algebra.

Textbook: TBA

Dual Credit: Earning credit for MAT 1250 Applied College Algebra at Prince George’s Community College makes a student eligible for 399013 Finite Mathematics DE credit.

**Geometry**

*Course Code:* 344003,

*Prerequisites:* Students must pass Algebra I to enroll in Geometry

*Credits:* 1.0 Geometry

Geometry formalizes and extends students’ geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Six critical areas comprise the Geometry course: Congruence, Proof and Constructions, Connecting Algebra and Geometry through Coordinates, Similarity, Proof and Trigonometry, Extending to Three Dimensions, and Circles With and Without Coordinates. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students must pass Algebra I to enroll in Geometry. Students must pass Geometry to enroll in Financial Algebra or Algebra 2.

344033 Supported Inclusion - This courses is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs;

344073 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

344083 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education education program.

344013 S/T, 344053 ESOL
Geometry Pre-Diploma Program

Course Code: 344023
Prerequisites: Algebra I; International Baccalaureate student
Credits: 1.0 Geometry; Weighted

Students must pass Algebra I to enroll in Geometry. Students must pass Geometry to enroll in Financial Algebra or Algebra 2

Textbook(s): enVision Geometry, ISBN 9780328931552

Maryland College and Career Ready Mathematics Transition

Course Code: 353110
Prerequisites: Students in need of MCCR determination
Credits: 0.5 Math

This is a semester long transition course for 12th grade students needing additional foundation in high school mathematics to become college and career ready. Concept modules will include systems of equations and inequalities; linear, exponential, and quadratic functions; and polynomial, rational, and radical expressions. This course will prepare students for post-secondary mathematics as well as the Accuplacer, SAT or ACT assessments. This course may be paired with Trigonometry or semester length Probability and Statistics.

Textbook(s): TBD

Pre-Calculus

Course Code: 375203
Prerequisites: Successful completion of Algebra 2
Credits: 1.0 Math

Pre-Calculus focuses on standards to prepare students for a more intense study of mathematics. The critical areas, organized in six units, delve deeper into content from previous courses. The six units are polynomial, rational, and radical functions; exponential and logarithmic functions, trigonometric functions; analytic geometry; matrix algebra; and sequences, series, and limits. Students synthesize their conceptual understanding of algebraic and transcendental function families. This improved understanding of functions is applied to solving real world problems that require students to build and/or interpret functions. Students also improve their understandings of the properties of mathematics that allow them to hone their ability to manipulate algebraic expressions, equations and inequalities. The study of circles and parabolas is extended to include other conics such as ellipses and hyperbolas. Trigonometric functions are further developed to include inverses, general triangles and identities. Matrices provide an organizational structure in which to represent and operate upon vectors. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students must successfully complete Algebra 2 before they can enroll in Precalculus.

Textbook(s): TBD

Dual Credit: Earning credit for MAT 1370 Pre-Calculus at Prince George’s Community College or MATH 126 Pre-Calculus at Bowie State University makes a student eligible for 381043 Pre-Calculus DE credit.
**Probability/Statistics**

*Course Code:* 373000  
*Prerequisites:* Successful completion of Algebra 2  
*Credits:* 0.5 Math

In this semester course, students will study descriptive and inferential statistics. Students will explore topics including descriptive statistics, probability, normal distribution, confidence intervals, hypothesis testing, and regression. Students will use graphing calculators in activities that are appropriate to the topics being studied. This course may be paired with Maryland College and Career Ready Mathematics or Trigonometry. Students must successfully complete Algebra 2 before they can enroll in Probability and Statistics.

Textbook(s): *Statistics and Probability with Applications, ISBN 9781464122163*

**Probability/Statistics**

*Course Code:* 373103  
*Prerequisites:* Successful completion of Algebra 2  
*Credits:* 1.0 Math

This course provides an elementary introduction to probability and statistics with applications in both descriptive and inferential statistics. Students will explore topics including descriptive statistics, probability, probability distributions, normal distribution, confidence intervals, hypothesis testing, correlation, and regression. Students will use graphing calculators in activities that are appropriate to the topics being studied. Students must successfully complete Algebra 2 before they can enroll in Probability and Statistics.

Textbook(s): *Statistics and Probability with Applications, ISBN 9781464122163*

Dual Credit: Earning credit for MAT 1190 Probability at Prince George’s Community College makes a student eligible for 373113 Probability and Statistics DE credit.

Dual Credit: Earning credit for MATH 155 Intro to Probability & Statistics at Bowie State University makes a student eligible for 373113 Probability and Statistics DE credit.

**Quantitative Modeling**

*Course Code:* 353303  
*Prerequisites:* Successful completion of Geometry  
*Credits:* 1.0 Math

Quantitative Modeling algebra is a college and career preparatory course that integrates algebra, geometry, probability, and statistics to solve financial problems that occur in everyday life. An emphasis is placed on the integration of concepts from Algebra 1 and Geometry as well as introductory concepts from Algebra 2. Real-world problems in investing, banking, consumer credit, employment, income tax, automobile ownership, and independent living are solved through applying the relevant mathematics. This course will prepare students for Algebra 2 as well as either the Accuplacer, SAT or ACT assessments. Each student enrolled in Quantitative Modeling will participate in a culminating hands-on budgeting simulation that is implemented at a JA Finance Park facility in Prince George’s County. Students must successfully complete Algebra 1 and Geometry before they can enroll in Quantitative Modeling.

353333 Supported Inclusion - This courses is designed for general education and special education students in a small class environment that will incorporate instructional practices and strategies based on student learning styles and individual needs;
353373 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

353383 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education education program.

353353 ESOL

Textbook(s): Financial Algebra, Advanced Algebra with Financial Applications

Seminar for Advanced Placement (Calculus, Statistics or Computer Science)
Course Code: 380013 Calculus; 398013 Statistics
Prerequisites: Concurrently enrolled in an AP course
Credits: 0.5 Elective

This seminar course will cover topics of current interest and provide in-depth coverage of selected topics from the concurrent AP course. Students will receive intensive assistance in the concepts and skills tested by the AP exams. This course prepares students who require additional practice, guidance, and experiences beyond those available in their standard AP courses preparing them for success on the AP exams, possible exemption from freshman mathematics, and/or undergraduate elective credit.

Textbook(s): TBA

Trigonometry
Course Code: 371000
Prerequisites: Successful completion of Algebra 2
Credits: 0.5 Math

In this semester course, students will study descriptive and inferential statistics. Students will explore topics including descriptive statistics, probability, normal distribution, confidence intervals, hypothesis testing, and regression. Students will use graphing calculators in activities that are appropriate to the topics being studied. This course may be paired with Maryland College and Career Ready Mathematics or Probability and Statistics (semester). Students must successfully complete Algebra 2 before they can enroll in Trigonometry.

Textbook(s): TBA

Military Science:
Junior Reserve Officer Training Corps (JROTC)
The goal of the Junior Reserve Officer Training Corps (JROTC) is to provide secondary school students the opportunity to become informed, responsible citizens prepared for high school graduation. The curriculums focus on academics including United States military history; exploration of national security issues; the study of meteorology and astronomy; communications and advanced technologies employed by the Armed Services; navigation and survival skills; healthy lifestyles and physical fitness; organizational skills and financial management; career exploration in a wide variety of fields (both military and nonmilitary); and the foundations of responsible leadership. Cadets learn and continue to develop leadership skills and application of military courtesies and customs as they complete each year of their JROTC programs. Each of the four branches structures its curriculum for success in high school and beyond. Through the demonstration of discipline, honor, self-respect, and commitment cadets gain increasing responsibilities within their programs. JROTC cadets and units must complete civic action projects and community
service. The program also provides field trips to historical military sites and institutions; visits to colleges/ universities and military academies to increase awareness and opportunities; and participation on one of the various Drill Teams could include travels to neighboring counties, states, and possibly to competitions held nationwide. Students will have an opportunity to earn up to 9 college credits. Success completion of 3/4 years of JROTC qualifies for an advancement in military science.

**Military Science:**

**Aerospace Science Program**

The mission of the Aerospace Science program is to provide the climate, opportunity, and motivation for cadets to experience success in academic studies and their development as leaders. Cadets learn about the aerospace environment and how the technology of aerospace science affects them individually, our society, our nation, and our way of life. Cadets learn and master effective followership and leadership qualities and skills. The program promotes community service and instills responsibility, character, self-discipline, and a sense of accomplishment.

**Aerospace Science 1**

*Course Code:* 999100, 999103

*Prerequisites:* Agreement to meet grooming and discipline standards

*Credits:* 0.5 - 1.0 Elective

The introductory year and first year course taken by students entering AFJROTC is designed to acquaint students with the heritage of flight, development of air power, and evolution of air power from WW II to the present. Leadership education concentrates on learning basic and intermediate military drill and ceremonies, as well as military customs and courtesies.

*Textbook(s):* All instructional materials provided by the Air Force Center for Officer Accessions and Citizens Development

**Aerospace Science 2**

*Course Code:* 999203

*Prerequisites:* Aerospace Science 1; Agreement to meet grooming and discipline standards; Instructor approval

*Credits:* 1.0 Elective

The second year is a science course designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. The course begins with a discussion of the atmosphere and weather. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. The portion on the Human Requirements of Flight is a survey course on human physiology. Discussed here are the human circulatory systems, the effects of acceleration and deceleration, and protective equipment. Leadership Education stresses communication skills and cadet corps activities. Written reports and speeches complement academic materials.

*Textbook(s):* All instructional materials provided by the Air Force Center for Officer Accessions and Citizens Development
**Aerospace Science 2/3 (Hybrid)**

*Course Code:* 999213  
*Prerequisites:* Aerospace Science I and Aerospace Science II  
*Credits:* 1.0 Elective

This course is designed to acquaint the cadet with the aerospace environment, the human requirements of flight, principles of aircraft flight and principles of navigation. Additionally, it covers understanding group and teams while preparing them for leadership, problem solving, conflict resolution and personal development.

*Textbook(s):* Prescribed Air University textbooks and instructional materials

**Aerospace Science 3**

*Course Code:* 999303  
*Prerequisites:* Aerospace Science 2; Agreement to meet grooming and discipline standards; Instructor approval  
*Credits:* 1.0 Elective

The third year is a science course which examines our Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. Issues critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, space probes, guidance and control systems are explained. The manned spaceflight sections cover major milestones in the endeavor to land on the Moon, and to safely orbit humans and crafts in space for temporary and prolonged periods. It also covers the development of space stations, the Space Shuttle and its future, and international laws for the use of and travel in space. Leadership education emphasis is Management Theories, Stress, Financial Management, Introduction to Ethics, and Citizenship.

*Textbook(s):* All instructional materials provided by the Air Force Center for Officer Accessions and Citizens Development

**Aerospace Science 4**

*Course Code:* 999403  
*Prerequisites:* Aerospace Science 3; Agreement to meet grooming and discipline standards; Instructor approval  
*Credits:* 1.0 Elective

**Aerospace Science 4/Leadership Education: (AFJROTC) consists of three options:**

Option 1: Management of the Cadet Corps: The cadets manage the entire Corps during the fourth year. This hands-on experience affords the cadets the opportunity to put the theories of previous leadership courses into practice. The cadets manage all the planning, organizing, coordinating, directing, controlling, decision-making, personal interaction, managerial, and organizational skills.

Option 2: The Exploration of Space. It is designed to help students apply scientific concepts and principles discussed in the texts. The geography portion of the course adds to the basic knowledge of the Earth's surface and the processes that shape it; of places and their connections to other places; and of the relationship between people and environments. The survival section presents “good to know” information that would be useful in any situation. Survival instruction will provide training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival.
Option 3: Global and Cultural Studies is a multidisciplinary course that introduces students to various regions of the world from a geographic, historical and cultural perspective. The course provides increased international awareness and insight into foreign affairs that permits a more educated understanding of other cultures and enhanced knowledge of America’s interests and role in the world. Geopolitical issues such as terrorism, economics, politics, military issues, migration of peoples and other cultural issues will be examined. The regional areas included in this course are Europe, the Middle East, South Asia, Africa, and Latin America.

Textbook(s): All instructional materials provided by the Air Force Center for Officer Accessions and Citizens Development

Aerospace Science 5

Course Code: 999903
Prerequisites: Aerospace Science 4; Agreement to meet grooming and discipline standards; Instructor approval; Students entering their Junior year request Honors Ground School course and complete AS 5/6 as a JROTC four-year completer

Credits: 1.0 Elective

Aerospace Science 5, Aviation Honors Ground School is a course designed for a foundation for cadets/students interested in receiving a private pilot’s license. When the course is completed the cadets/students should be prepared to take and pass the Federal Aviation Administration (FAA) written examination. Cadets/students will indicate, through oral/written assessments proficiency in all requirements for successful completion of the FAA written exam. Cadets/students will show familiarity with pilot training programs, opportunities in aviation and human elements associated with the license of a private pilot. In addition, the instructor will ensure the cadet has a basic understanding of policies and procedures applicable to the corps’ pilot training program and association with private pilot training institutions. Course overall objectives will enable the cadets to comprehend: Fundamentals of Flight, Aircraft Operation, Aircraft Systems, Aircraft Performance, Flight operations/Aircraft Maneuvering, Atmosphere and its effect on aircraft operations, Basics of navigation, GPS, and using charts and radio aids, Application of principles of aeronautical decision-making and flight-related physiological factors.


Aerospace Science 6

Course Code: 999913
Prerequisites: SASI Approval

Credits: 1.0 Elective

Aerospace Science 6, Flight School is a course designed for completion of the FAA private/recreational pilot license for cadets/students interested in receiving a private pilot’s license through concentrated flying lessons. When the course is completed the cadets/students should be prepared to take and pass the Federal Aviation Administration (FAA) Flight Examination. Cadets/students will indicate, through oral/written assessments proficiency in all requirements for successful completion of the FAA Flight Evaluation. Cadets/students will partner with local pilot training programs for individual flying lessons. In addition, the instructor will ensure the cadet has continuity in association with private pilot training instructions. The course overall objectives will enable the cadets to demonstrate proficiency in flight and knowledge in order to successfully complete the FAA requirements for obtaining the Private/Recreational Pilot License. (3) Computer flight evaluations, (2) Solo computer flight, (1) Cross-country simulator flight (student planned). *The Flight Instruction will be contracted between
the individual cadets and JROTC instructor approved Flight Instruction Facilities within the local area. Limited funds available for school sponsored flight lessons; however, flight scholarships are available with local flight Institutions. The Civil Air Patrol provides one orientation flight at no cost to the students to determine flight lesson feasibility.


Interactive Computer Practice tests. Flight Simulator: Simulator flight lessons, (6) eight individual computer graded simulator lessons

### Military Science:
The Army JROTC Program

Army JROTC (AJROTC) focuses on the development of better citizens through the instruction of skills in leadership, citizenship, life success, geography, and wellness in a structured interactive environment. AJROTC is one of the Army’s contributions to assisting America’s youth to become better citizens. The program produces successful cadets and productive adults while fostering in each cadet a more constructive and disciplined learning environment. This program makes substantial contributions to many communities and ultimately to the nation’s future. It is the centerpiece of the Department of Defense’s commitment to America’s Promise for Youth through its emphasis on community service and teen anti-drug efforts.

### Army JROTC (Leadership, Education and Training 1)

**Course Code:** 998000, 998003  
**Prerequisites:** Agreement to meet grooming and discipline standards  
**Credits:** 0.5, 1.0 Elective

The Army JROTC program includes instruction in the history, organization, and functions of the Army. Leadership Laboratory I is an introduction to leadership development; students learn the principals, positive traits, values, and attributes of leadership; communication - both oral and written; map reading and navigation; drill and ceremonies; first aid; personal hygiene; and living a healthy life. Students learn critical thinking strategies and complete lessons focused on high school graduation.

Textbook(s): All instructional materials provided by U.S. Army Cadet Command

### Army JROTC (Leadership, Education and Training 2)

**Course Code:** 998103  
**Prerequisites:** ARJROTC 1; Agreement to meet grooming and discipline standards; Instructor approval  
**Credits:** 1.0 Elective

This course continues the core instruction and laboratory lessons in LET I. The course introduces equal opportunity, sexual harassment, wellness, fitness, first aid, drug awareness, advance map skill, identification of geographic features and environmental awareness. Behavioral traits and leadership styles are identified in students through the use of practical exercises, self assessments and evaluations. Students further their lessons in leadership theory instruction.

Textbook(s): All instructional materials provided by U.S. Army Cadet Command
Army JROTC (Leadership, Education and Training 3)

Course Code: 998203
Prerequisites: ARJROTC2; Agreement to meet grooming and discipline standards; Instructor approval
Credits: 1.0 Elective

This course continues and expands the instruction and skills taught in LET I and LET II. Students investigate the functions US Government, civic actions and political responsibility, explore U.S. Army’s role in American history. The course continues to develop leadership skills focusing on decision-making, problem-solving skills, management skills including goal setting, identification of performance indicators, enhancement of negotiations skills, implementation of processes, span of control and proper staff procedures, mediation of conflict, project development and execution.

Textbook(s): All instructional materials provided by U.S. Army Cadet Command

Army JROTC (Leadership, Education and Training 4)

Course Code: 998303
Prerequisites: ARJROTC 3; Agreement to meet grooming and discipline standards
Credits: 1.0 Elective

This course continues the instruction and expands the skills taught in LET I- III. Cadets assume responsibility for the planning, execution, and operations of the AJROTC unit by filling key leadership and staff positions. Focused on positive leadership experiences, cadets develop staffs, conduct meetings, and use project management skills to lead and supervise subordinates in the execution of the battalion’s missions. Cadets participate in military events to demonstrate their understanding of military protocol, etiquette, formal dining and decorum. Career exploration and college preparation are the main focus of the curriculum. Students complete career portfolios and use various resources to investigate college admission requirements, financial preparedness, and success strategies after high school graduation.

Textbook(s): All instructional materials provided by U.S. Army Cadet Command

Military Science:
The Navy JROTC Program

The purpose of Navy JROTC is to instill in students the value of citizenship, service to the United States, personal responsibility and a sense of accomplishment. Specific goals for the NJROTC program and course work include patriotism, developing informed citizens and responsible citizens; promoting habits of orderliness and precision; developing a high degree of self-discipline and leadership; promoting an understanding of the basic elements and requirements for national security; developing respect for and an understanding of the need for constituted authority in a democratic society; providing incentives to live healthy and drug-free lives; developing leadership potential; promoting high school completion; providing information on the military services as a possible career.
Naval Science 1
Course Code:  999500, 999503
Prerequisites:  Agreement to meet grooming and discipline standards
Credits:  0.5, 1.0 Elective
The NJROTC program emphasizes each person’s responsibilities in democratic society. The program includes classroom instruction, physical fitness, and military drill, wearing the correct uniform, practicing military customs and courtesies, and basic leadership training. Students will be introduced to leadership theories on ethics and values. Instructional topics also include naval ships and aircraft, citizenship and U.S. government and other forms of government, wellness and fitness, geography and survival skills.
Textbook(s): All instructional materials provided by the Naval Service Training Command

Naval Science 2
Course Code:  999603
Prerequisites:  NJROTC 1; Agreement to meet grooming and discipline standards; Instructor approval
Credits:  1.0 Elective
This course continues the instruction offered in Naval Science 1 at an advanced level. The second level course is intended to meet the needs of cadets who desire further training in Naval subjects and to gain additional leadership experiences. Topics include: Maritime History, Leadership, Maritime Geography, Meteorology, Astronomy, Physical Science, and Oceanography. Naval Science 2 and 3 topics may be alternated annually if approved by the senior instructor and the school principal.
Textbook(s): All instructional materials provided by the Naval Service Training Command

Naval Science 3
Course Code:  999703
Prerequisites:  NJROTC 2; Agreement to meet grooming and discipline standards; Instructor approval
Credits:  1.0 Elective
The third level course is designed to meet the needs of cadets who desire advanced training in Naval subjects and to gain additional leadership experiences while holding cadet officer positions. NJROTC-3 cadets may also be selected to staff positions. Topics include: National Security, Naval Operations and Support Functions, Military Law, International Law, Ship Construction, Shipboard Organization, Seamanship, Navigation, Naval Weapons and Aircraft.
* Naval Science 2 and 3 topics may be alternated annually if approved by the senior instructor and the school principal.
Textbook(s): All instructional materials provided by the Naval Service Training Command

Naval Science 4
Course Code:  999803
Prerequisites:  NJROTC 3; Agreement to meet grooming and discipline standards; Instructor approval
Credits:  1.0 Elective
The fourth level course is designed to meet the needs of senior cadets participating in the full four-year NJROTC program. Fourth year NJROTC cadets comprise the majority of the command staff responsible for planning, organizing, and administering unit activities. NJROTC-4 cadets also receive course work in advance leadership and organizational theory; ethics and complete workshops on college preparation; and career exploration.
Textbook(s): All instructional materials provided by the Naval Service Training Command
Music: Instrumental

All instrumental music courses will enable students to gain an appreciation and sensitivity to various musical styles representing differing cultures and histories and develop skills and techniques necessary to perform music of the selected ensemble. These skills include:

1. Read music;
2. Hold instrument/bow correctly;
3. Develop correct embouchure (winds);
4. Develop correct hand position;
5. Play in tune with good tone quality;
6. Understand the musical terminology included in the materials used in class;
7. Tune instruments correctly;
8. Sight read compositions of a basic level;
9. Listen to recordings to develop an awareness of the components of various musical periods, styles, and cultures;
10. Utilize technology appropriate for the class; and
11. Develop critical listening skills.

Attendance at outside school performances/rehearsals is a requirement for these courses.

Basic Band

Course Code: 636003, 636013, 636023
Prerequisites: Audition and/or teacher approval
Credits: 1.0 Fine Art

This class has a performance based curriculum which requires participation in performances which occur outside of school hours. Designed for students who have not developed the necessary skills for placement in the intermediate or advanced bands, enrollment in this class is subject to the approval of the instrumental teacher in order to insure appropriate placement.

Textbook(s): Accent on Achievement Book 1; Standard of Excellence Book 1; Essential Elements, 2000 Book 1

Intermediate Band

Course Code: 636113, 636133, 636143, 636183, 636193
Prerequisites: Audition and/or teacher approval
Credits: 1.0 Fine Art

This class has a performance based curriculum which requires participation in performances which occur outside of school hours. Designed for wind and percussion students who have able to perform intermediate level band music. Sectional or ensemble instruction should be scheduled. Enrollment in this class is subject to the approval of the instrumental teacher in order to insure appropriate placement.

Textbook(s): Accent on Achievement Bk 2, Standard of Excellence Bk. 2, Essential Elements 2000 Bk.2, Foundations for a Superior Performance, Belwin Intermediate, Sixteen Weeks to a Better Band and intermediate band literature; MBDA III or IV
Advanced Band
Course Code:  636213, 636233, 636243, 636283, 636293
Prerequisites:  Audition and/or teacher approval
Credits:  1.0 Fine Art
This class has a performance based curriculum which requires participation in performances which occur outside of school hours. Emphasizing a high standard of musical excellence in the preparation and performance of band literature, the band provides an opportunity for instrumentalist to continue their instruction and to gain performing experience on a daily basis. Small group and ensemble instruction should be scheduled. This class is subject to the approval of the instrumental teacher in order to insure appropriate placement.
Textbook(s): Foundations for a Superior Performance, Belwin Intermediate, Sixteen Weeks to a Better Band, Symphonic Warm ups; MBDA IV, V, or VI

Basic Orchestra
Course Code:  641003, 641013, 641023
Prerequisites:  Audition and/or teacher approval
Credits:  1.0 Fine Art
This class has a performance based curriculum which requires participation in performances which occur outside of school hours. Designed for students playing an orchestral string instrument who have not yet developed the skills necessary to be placed in intermediate or advanced orchestra, the emphasis is on the development and remediation of musical skills rather than public performance. This class is subject to the approval of the instrumental teacher in order to insure appropriate placement.
Textbook(s): Essential Elements 2000 Bk. 1, Artistry in Strings Bk. 2, String Explorer Bk. 1, and beginning ensemble literature

Intermediate Orchestra
Course Code:  641113, 641133, 641143
Prerequisites:  Audition and/or teacher approval
Credits:  1.0 Fine Art
This class has a performance based curriculum which requires participation in performances which occur outside of school hours. Instruction is aimed primarily at the fundamentals of string playing and performance of intermediate orchestral literature in an acceptable manner. The wind and percussion players should be added periodically to perform the orchestral literature. This class is subject to the approval of the instrumental teacher in order to insure appropriate placement.
Textbook(s): Essential Technique for Strings, Essentials for Strings, Strictly Strings Bk. 2, Daily Warm-ups for String Orchestra, and intermediate ensemble literature; MODA III or IV

Advanced Orchestra
Course Code:  641213, 641233, 641243, 641283, 641293
Prerequisites:  Audition and/or teacher approval
Credits:  1.0 Fine Art
This class has a performance based curriculum which requires participation in performances which occur outside of school hours. Emphasizing a high standard of musical excellence in the preparation and performance of orchestral literature, the orchestra provides an opportunity for string instrumentalists to continue their instruction and to gain performing experience on a daily basis. Small group or ensemble instruction should be scheduled. This class is subject to the approval of the instrumental teacher in order to insure appropriate placement.
Jazz Ensemble
Course Code:  647213, 647223, 647233
Prerequisites:  Concurrent enrollment in Advanced, Intermediate, or Basic Band or Orchestra; teacher approval
Credits:  1.0 Fine Arts

This performance based course will focus on a variety of jazz styles such as blues, swing, bebop, Latin jazz, and New Orleans jazz. Enrollment in the course is limited to traditional jazz band instruments (sax, trumpet, trombone, keyboard, rhythm section, guitar) and competent music reading is required. This course does not fulfill the MSDE fine arts graduation requirement. Students are required to participate in after school rehearsals and concerts.

Textbook(s): TBA

Special Instrumental Ensemble
Course Code:  641303, 641343, 641353
Prerequisites:  Teacher approval; Concurrent enrollment in Intermediate /Advanced Band/Orchestra
Credits:  1.0 Fine Art

This class has a performance based curriculum which requires participation in performances which occur outside of school hours. This course is designed for instrumental music students desiring to enhance their musical experience through the study and performance of literature for the smaller instrumental ensemble. Possible offerings are string or wind chamber music, jazz ensemble, instrumental choirs, and percussion ensemble. This course does not fulfill Fine Arts Graduation requirement. Instructional materials will be provided as appropriate and dictated by the type of ensemble (string/chamber music/jazz ensemble, percussion ensemble, etc.). This class is subject to the approval of the instrumental teacher in order to insure appropriate placement.

Textbook(s): TBA

Music: Vocal and General

General/Vocal Performance Courses

Schools must offer a minimum of two levels of chorus. Student ability will determine the levels of courses to be offered. In accordance with Title IX regulations, if Intermediate Chorus-Soprano and Alto are offered, Intermediate Chorus-Tenor and Bass must also be offered. Attendance at outside school performances/rehearsals is a requirement for these courses.

Musicianship Courses

Schools must offer one musicianship course or combination each semester according to the ability of the students. A school must decide which Musicianship courses it should offer. Two or more levels might be taught simultaneously, according to instructional needs of students.

Special Interest-General Music Courses

Schools must offer a minimum of two different special interest-general music courses each semester selected from those listed. Student interest will determine the courses to be offered. (Additional General/Vocal Performance Courses such as Vocal Ensemble and Music Theatre may be substituted for General Music Courses if student interests warrant.)
**Advanced Placement Music Theory**

**Course Code:** 647613  
**Prerequisites:** Successful completion of Theory IV and/or Advanced Piano courses or equivalent; Teacher recommendation  
**Credits:** 1.0 Fine Art, Weighted

This full-year course for 11th or 12th grade students is designed to offer experienced advanced music students abilities to develop greater technical ability, good independent practice skills, and written theory. Additionally sight singing, aural dictation, and computer application will enhance instruction. Topics may include seventh chords, modulation, secondary dominate, and classical music form and style. Students that will be attending college as Music majors are encouraged to take this course.


**Intermediate Chorus - Mixed**

**Course Code:** 630003, 630023, 630033, 630043, 630053  
**Prerequisites:** Beginning choir or teacher recommendation  
**Credits:** 1.0 Fine Art

This full-year course offers instruction in intermediate vocal techniques, score reading and includes study and performance of mixed chorus literature. The teacher will select students through prior audition. This group has out-of-school performances, which may require after-school rehearsals. Student grades will be reflective of attendance and successful completion of all follow-up assignments. At this level, students will rehearse and perform music that is three & four part medium level chorus literature. Students are required to participate in the Choral Performance Assessments.

Textbook(s): Teacher selected choral repertoire as outlined in the Maryland Choral Educator’s Association; The Singing Musician Level III and IV; MusicFirst

**Intermediate Chorus - Men's Ensemble**

**Course Code:** 630243, 630253, 630263, 630273  
**Prerequisites:** Audition and/or teacher recommendation  
**Credits:** 1.0 Fine Art

This full year course offers instruction in intermediate (two and three parts medium level choral literature) vocal techniques, score reading and includes study and performance of men’s choral literature. The teacher selects students through prior audition. This group has out-of-school performances, which may require after-school rehearsals. Student grades will be reflective of attendance and successful completion of all follow-up assignments. At this level, students are encouraged to participate in the county Vocal Solo and Ensemble festival and are required to participate in the Choral Performance Assessments.

**Intermediate Chorus - Women's Ensemble**

**Course Code:** 630203, 630213, 630223, 630233  
**Prerequisites:** Audition and/or teacher recommendation  
**Credits:** 1.0 Fine Art

This full year course offers instruction in intermediate (two and three part medium level choral literature) vocal techniques, score reading and includes study and performance of women’s choral literature. The teacher selects students through prior audition. This group has out-of-school performances, which may require after-school rehearsals. Student grades will be reflective of attendance and successful completion of all follow-up assignments. At this level, students are encouraged to participate in
the county Vocal Solo and Ensemble assessments and are required to participate in the Choral Performance Assessments.

Textbook(s): Teacher selected choral repertoire as outlined in the Maryland Choral Educator’s Association; *The Singing Musician Level III and IV*; MusicFirst

**Advanced Chorus - Concert/Chamber Choir**

*Course Code:* 631103, 631123, 631133, 631143, 631153, 632103, 643823

*Prerequisites:* Previous choral experience or teacher recommendation

*Credits:* 1.0 Fine Art

This full-year course offers instruction in, and study and performance of, advanced vocal techniques, score reading and large ensemble or chamber chorus literature. The teacher selects students through prior audition. This group may perform extensively in out-of-school performances, which may require after-school rehearsals. Student grades will be reflective of attendance and successful completion of all follow-up assignments. At this level, students will perform four part medium to advanced chorus literature.

Textbook(s): Teacher selected choral repertoire as outlined in the Maryland Choral Educator’s Association; *The Singing Musician Level III and IV*; MusicFirst

**Applied Music Voice**

*Course Code:* 646403, 646413, 646423, 646433

*Prerequisites:* VPA acceptance through audition

*Credits:* 1.0 Fine Art

This course is intended to enhance students’ vocal ability. Students receive individual vocal instruction reflecting appropriate vocal technique, tone production, and voice-part specific literature and repertoire in the classical and sacred genres appropriate for college auditions. Students will be required to participate in recitals and juries throughout the year. Juniors and seniors will be required to participate in the county Vocal Solo and Ensemble Festival.

Textbook(s): Teacher selected choral repertoire as outlined in the Maryland Choral Educator’s Association; *The Singing Musician Level III and IV*; MusicFirst

**Choral Ensemble**

*Course Code:* 643503, 643523, 643533, 643543, 647103

*Prerequisites:* None

*Credits:* 1.0 Fine Art

This full-year course includes performance and study of historical development of one or more current styles of music, such as popular, folk, rock, and gospel. This group has out-of-school performances, which may require after-school rehearsals. Student grades will be reflective of attendance and successful completion of all follow-up assignments. At this level, students will perform three and four part medium to advanced chorus literature. Participation in the Choral Performance Assessments is also required.

Textbook(s): Teacher selected choral repertoire as outlined in the Maryland Choral Educator’s Association; *The Singing Musician Level III and IV*; MusicFirst
Music Survey
Course Code: 645100, 645103
Prerequisites: None
Credits: 0.5, 1.0 Fine Art
This course is a full-year or semester course for the student who wishes to become a knowledgeable consumer of music. Students will explore performing artists and composers from the Renaissance through today and the various genres they represent. This course will also include the fundamentals of music literacy.
Textbook(s): Music! Its Role and Importance in our Society, ISBN 978-0078297564
Dual Credit: Earning credit for MUS 1010 Music Appreciation at Prince George’s Community College makes a student eligible for 645113 Music Survey DE credit.

Musicianship 1A
Course Code: 623000
Prerequisites: None
Credits: 0.5 Fine Art
This is a beginning semester course in music that includes theory, ear training, dictation, and analysis of simple musical form and structure.
Textbook(s): Teacher selected materials as identified in the Curriculum Framework Overview

Musicianship 1B
Course Code: 624000
Prerequisites: Musicianship 1A or equivalent knowledge
Credits: 0.5 Fine Art
This is a continuation of the beginning semester course that includes theory, ear training, dictation, and analysis of simple form and structure.
Textbook(s): Teacher selected materials as identified in the Curriculum Framework Overview

Musicianship 2A
Course Code: 625000
Prerequisites: Musicianship 1B or equivalent knowledge
Credits: 0.5 Fine Art
This is an intermediate semester course in music theory, ear training, dictation, analysis of musical forms, and arranging for voice and instruments.
Textbook(s): Teacher selected materials as identified in the Curriculum Framework Overview

Musicianship 2B
Course Code: 626000
Prerequisites: Musicianship 2A or equivalent knowledge
Credits: 0.5 Fine Art
Continuation of semester course in music theory, ear training, dictation, analysis of musical forms, and arranging for voice and instruments.
Textbook(s): Teacher selected materials as identified in the Curriculum Framework Overview
Musicianship 3A
Course Code: 627000
Prerequisites: Musicianship 2B or equivalent knowledge
Credits: 0.5 Fine Art
This is an advanced semester course designed and offered to students who are gifted in music and plan careers in music composition. Instruction includes composition, aural analysis, and orchestration.
Textbook(s): Teacher selected materials as identified in the Curriculum Framework Overview

Musicianship 3B
Course Code: 628000
Prerequisites: Musicianship 3A or equivalent knowledge
Credits: 0.5 Fine Art
This is a continuation of semester course designed and offered to students who are gifted in music and plan careers in music composition. Instruction includes composition, aural analysis, and orchestration.
Textbook(s): Teacher selected materials as identified in the Curriculum Framework Overview

Principles of Recording Technology
Course Code: 647700, 647713
Prerequisites: None
Credits: 0.5 Fine Art
This semester course helps students understand the process involved in creating high quality recordings. Students may practice these skills at various school and community events. Additionally, students will use technology to compose digital music. After SY 2013, all students must take FOT or a designated course (to be determined) to earn Technology Education credit.
Textbook(s): Audio Fundamentals

Basic Guitar
Course Code: 643000, 643010, 643020, 643030, 643040, 643050, 643060, 643070, 643080
Prerequisites: None
Credits: 0.5 Fine Art
In this semester course students will begin to learn the skills necessary for playing the guitar. Students will explore units in basic notation, parts of a guitar, how to read a chord chart, and strumming techniques. Some performance is required.
Textbook(s): Basic guitar instruction book and literature as identified in the Curriculum Framework Overview.

Intermediate Guitar
Course Code: 643100, 643110, 643120, 643130, 643140, 643150, 643160, 643170, 643180
Prerequisites: Basic guitar or equivalent skill
Credits: 0.5 Fine Art
This semester course includes an opportunity to learn intermediate techniques for playing the guitar.
The emphasis will be on folk and classical styles of guitar playing. Performance is recommended. Students taking this course are eligible to participate in the county Solo and Ensemble festival.

Textbook(s): Intermediate guitar instruction book and literature as identified in the Curriculum Framework Overview.

**Advanced Guitar**

Course Code:  643800, 643810, 643820, 643830, 643840, 643850, 643860, 643870, 643880

Prerequisites: Intermediate Guitar, teacher recommendation

Credits:  0.5 Fine Art

This course includes opportunities to perform using folk, rock, blues, and classical techniques. Music theory and original composition appropriate to the student’s level is required. Students taking this course are eligible to participate in the Solo and Ensemble festival.

Textbook(s): Teacher selected solo and ensemble literature as identified in the Maryland Orchestral Director’s Association

**Basic Piano**

Course Code:  643200, 643210, 643220, 643230, 643240, 643250, 643260, 643270, 643280

Prerequisites:  None

Credits:  0.5 Fine Art

This semester course is designed for students who wish to learn the fundamentals of keyboard performance. Students with no previous piano background will explore; basic notation, pitch and its notation, manuscript writing and music symbols specific to reading and playing keyboard music with artistry and appropriate technique.

Textbook(s): Teacher selected books as identified in the Curriculum Framework Overview

**Intermediate Piano**

Course Code:  643300, 643310, 643320, 643330, 643340, 643350, 643360, 643370, 643380

Prerequisites:  Basic Piano or equivalent skill, Teacher Recommendation

Credits:  0.5 Fine Art

This semester course is designed to increase keyboard skills to a degree which will permit the students to play a variety of music for self-enjoyment. Students are eligible to participate in the county Solo and Ensemble festival.

Textbook(s): Teacher selected books as identified in the Curriculum Framework Overview

**Advanced Piano**

Course Code:  643400, 643410, 643420, 643430, 643440, 634450, 634460, 634470, 634480

Prerequisites: Intermediate Piano or equivalent skill, teacher recommendation

Credits:  0.5 Fine Art

This semester course is designed for the experienced student who wishes to develop a greater technical ability, and develop good independent practice skills. Students are also introduced to standard piano repertoire in preparation for college auditions.

Textbook(s): Teacher selected books as identified in the Curriculum Framework Overview
Physical Education

A student in Prince George’s County is required to complete one-half (0.5) credit in physical education in order to graduate. Personal Fitness is the course to fulfill the Physical Education graduation requirement.

A student will be expected to enroll in the one-half (0.5) credit physical education course in the ninth grade. With the principal’s permission, enrollment may be delayed until grade 10, 11, or 12.

Health education courses may not be substituted for physical education courses. Dance courses do not count as physical education courses. However, dance courses do count toward the completion of the fine arts credit requirement.

Students may not be exempt or waivered from physical education for any reason. Accommodations will be made as necessary, to meet IEP goals.

Personal Fitness

Course Code: 718010, 718020, 718050, 718060, 718070, 718080
Prerequisites: None
Credits: 0.5 Physical Education

The course will provide students with the opportunity to explore their personal fitness levels, engage in lifetime physical activities, analyze their personal well-being, nutritional choices and attitudes observed during social physical activities which can be measured by the Healthy Fitness Zone component of Fitnessgram. The students will use the knowledge they gain to develop a well-rounded personal fitness plan that will support living an active healthy lifestyle.

Textbook(s): Fitness For Life, ISBN 9780736066754

Dual Credit: Earning credit for PED 1030 Lifetime Fitness and Leisure Activities at Prince George’s Community College makes a student eligible for 718000 Personal Fitness DE credit.

Lifetime Sports 1

Course Code: 717010, 717020, 717050, 717060, 717070, 717080
Prerequisites: Personal Fitness
Credits: 0.5 Elective

Students will experience a variety of activities which will provide them with the skills and knowledge necessary to successfully participate in leisure time activities throughout life. Activities in this course must be offered as co-educationally. (Mandated Title IX).

Textbook(s): None

Lifetime Sports 1 Dual Enrollment

Course Code: 717000
Prerequisites: Personal Fitness
Credits: 0.5 Elective

Students will experience a variety of activities which will provide them with the skills and knowledge necessary to successfully participate in leisure time activities throughout life. Activities in this course must be offered as co-educationally. (Mandated Title IX).

Textbook(s): None
Team Sports 1
Course Code:  719010, 719020, 719050, 719060, 719070, 719080
Prerequisites:  Personal Fitness
Credits:  0.5 Elective
The student will learn rules, terms, historical background and basic skills for a variety of sports. The student will be able to understand team strategy in a competitive situation. Activities in this course must be offered co-educationally (mandated Title IX).
Textbook(s): None

Team Sports 2
Course Code:  719110, 719120, 719150, 719160
Prerequisites:  Personal Fitness and Team Sports 1
Credits:  0.5 Elective
The students will improve their knowledge of game rules and basic skills. The student will experience the concept of teamwork in competition situations. Activities in this course must be offered co-educationally (mandated Title IX).
Textbook(s): None

Physical Training
Course Codes:  719470, 719480
Prerequisites:  Personal Fitness
Credits:  0.5 Elective
This semester course is designed as a conditioning course for students who wish to improve Strength and endurance. Areas that may be explored are physical fitness, circuit training, isometrics, weight training, body mechanics, jogging and/or running and fundamental theories of body conditioning. Activities must be offered co-educationally (mandated Title IX).
Textbook(s): None

Science

Advanced Placement Biology Lab
Course Code:  498023
Prerequisites:  Concurrent Enrollment in AP Biology
Credits:  1.0 Science
“his year-long course is offered to fulfill College Board’s Advanced Placement Laboratory requirements for AP Biology. This laboratory section of the course addresses objectives of laboratories that are recommended by the College Board. They exemplify inquiry, experimental and quantitative, rather than descriptive, laboratory exercises. They are intended to challenge students' abilities to understand problems, develop and implement appropriate experimental designs, manipulate data, draw conclusions, think analytically, and develop hypotheses.
Textbook(s): TBD
Advanced Placement Chemistry Lab
Course Code: 498123
Prerequisites: Enrollment in AP Chemistry
Credits: 1.0 Science
This year-long course is offered to fulfill College Board's Advanced Placement Laboratory requirements for AP Chemistry. This laboratory section of the course addresses objectives of laboratories that are recommended by the College Board. They exemplify inquiry, experimental and quantitative, rather than descriptive, laboratory exercises. They are intended to challenge students' abilities to understand problems, develop and implement appropriate experimental designs, manipulate data, draw conclusions, think analytically, and develop hypotheses.
Textbook(s): TBD

Advanced Placement Environmental Science
Course Code: 498323
Prerequisites: Enrollment in AP Environmental Science
Credits: 1.0 Science
This year-long course is offered to fulfill College Board's Advanced Placement Laboratory requirements for AP Environmental Science. This laboratory section of the course addresses objectives of twelve laboratories that are recommended by the College Board. They exemplify experimental and quantitative, rather than descriptive, laboratory exercises. They are intended to challenge students' abilities to understand problems, develop and implement appropriate experimental designs, manipulate data, draw conclusions, think analytically, and develop hypotheses.

Advanced Placement Physics 1
Course Code: 441113
Prerequisites: Algebra 1
Credits: 1.0 Science
This algebra-based AP physics course promotes focused, hands-on learning. It enables students to develop deep understanding of the content and to focus on applying their knowledge through inquiry labs. This course also allows time for teachers to include physics contents that are normally covered in our school’s Physics ST, the Physics Course for Science and Technology Program students. This course covers Newtonian mechanics; work, energy, and power; mechanical waves and sound, electric circuits, static electricity, magnetic field, optics and a little bit of modern physics. This course also emphasizes the understanding of physics concepts and the development of problem solving and critical thinking skills. Demonstrations are used to illustrate physical concepts and phenomena; and applications to real-life are highlighted throughout the course. Labs, demonstrations, and real-life applications are used to foster student-centered guided inquiry and open inquiry into the world around them.
Textbook(s): TBD

Advanced Placement Physics 1 Lab
Course Code: 441123
Prerequisites: Concurrent Enrollment in AP Physics 1
Credits: 1.0 Elective
AP Physics 1 Lab is the laboratory companion for AP Physics 1. AP Physics 1: Algebra-Based is the
equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits.

Textbook(s): TBD

Advanced Placement Physics 2

Course Code: 441133
Prerequisites: AP Physics 1
Credits: 1.0 Science

Advanced Placement Physics 2: Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics.

Textbook(s): Physics Principles with Applications (AP), ISBN 0131142860

Anatomy and Physiology

Course Code: 492100
Prerequisites: Biology, Chemistry
Credits: 0.5 Elective

This course is designed to provide students opportunities to apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) as they relate to human biological structure and function. Throughout this course, students will develop a solid knowledge base of how the human body’s organ systems function simultaneously to help maintain homeostasis in the human body. Much of the content in this course will be explored through collaborative laboratory exercises that provide hands-on experiences for the student. Extensive laboratory work and individual research is required.


Dual Credit: Earning credit for BIO 2050 Human Anatomy and Physiology I at Prince George’s Community College makes a student eligible for 492110 Anatomy and Physiology DE credit.

Biology

Course Code: 420603
Prerequisites: 8th Grade general science
Credits: 1.0 Life Science

This course is designed to emphasize the study of the interrelationships of living organisms with respect to their environment. Students will engage in laboratory investigations, scientific discussions, and phenomena based instruction in order to apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to explain cell structures and processes, ecosystem interactions, inheritance of traits, and evolution. Students will use observations, experiments, models, theories, and technology to make sense of the natural world. Emphasis is placed on important biological and geophysical phenomena that support the understanding of the cycling of matter and flow of energy in living organisms, gene expression, and biodiversity. This course will also involve students developing solutions to authentic problem-based life science issues and investigations, while exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).

420673 Co-Teach- This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students
have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students.

420683 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program.

420653 ESOL

420693 - Honors - Prerequisites: 8th Grade Science grade of ‘A or B’ and successful completion of Algebra 1

Textbook(s): Science Dimensions: Biology, ISBN 9780544861787

Dual Credit: Earning credit for BIO 1010 General Biology at Prince George’s Community College makes a student eligible for 420413 Biology DE credit.

### Biology Pre-Diploma Program

**Course Code:** 494193  
**Prerequisites:** 8th Grade Science grade of ‘A or B’ and successful completion of Algebra 1 for 9th graders  
**Credits:** 1.0 Life Science; Weighted

Honors Biology is an accelerated comprehensive laboratory course designed to give students a more conceptual and in-depth understanding of life processes. Students will apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to explain how organisms adapt to meet the challenges of living in their environment, and to demonstrate the relationships between structure and function and change over time. Scientific discussions, and phenomena based instruction will be the hallmark of this course. Students will engage in the practices of science and engineering to construct their understanding of the process of evolution and its relationship to the diversity and unity of life; the use of free energy by biological systems to grow, reproduce, and maintain homeostasis; the storage retrieval, transmission, and response of living systems to information essential to life processes; and the interaction of biological systems. Active and extensive engagement in independent research, quarterly engineering projects, and laboratory work including the design of experiments are fundamental to the course. Upon successful completion of this course, students will be prepared for enrollment in Advanced Placement Chemistry and/or Advanced Placement Biology. Note: Animals will be dissected in this course. Alternatives to dissection are available.

Textbook(s): Science Dimensions: Biology, ISBN 9780544861787

### Biology Science and Technology Honors

**Course Code:** 420793  
**Prerequisites:** Enrollment in the Science and Technology Program  
**Credits:** 1.0 Life Science; Weighted

Biology S/T Honors is laboratory-based science class in which students will study the cell, the molecular basis of heredity, biological evolution, interdependence of organisms, matter and energy, organization in living systems and the behavior of organisms. This course begins the journey into research and open-ended experimentation for the science and technology student. The course follows PGCPS Honors Biology Course derived from Next Generation Science Standards (NGSS) with curricular additions that provide additional opportunities for students to engage in problem based learning, and utilize STEM processes and standards of practices. Note: Animals may be dissected in this course. Alternatives to dissection are available.

Textbook(s): Science Dimensions: Biology, ISBN 9780544861787
**Biology Summit**

*Course Code:* 420093

*Prerequisites:* Successful completion of Algebra 1 in the 8th grade for 9th graders; Integrating the Sciences grade of ‘A’ and successful completion of Algebra 1 for 10th graders

*Credits:* 1.0 Life Science; Weighted

Biology Summit is laboratory-based science class in which students will study the cell, the molecular basis of heredity, biological evolution, interdependence of organisms, matter and energy, organization in living systems and the behavior of organisms. The course follows PGCPS Honors Biology Course derived from Next Generation Science Standards (NGSS) with curricular additions that provide additional opportunities for students to engage in research topics and additional projects. Note: Animals may be dissected in this course. Alternatives to dissection are available.


**Biogeochemical Systems**

*Course Code:* 420803, 420863

*Prerequisites:* Biology

*Credits:* 1.0 Earth and Space Science or Physical Science

This course is designed to illustrate the role of chemical processes, inclusive of photosynthesis and cellular respiration, in the cycling of carbon among Earth’s spheres. Students will explore the study of matter and its interactions, motion, stability, and force through laboratory investigations, scientific discussions, and phenomena based instruction. Students will apply the science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to explain systems interactions: the flow of energy among organisms in an ecosystem, the control of weather and climate with a major emphasis on the mechanisms and implications of climate change, and the importance of biological and geophysical phenomena that support student explanations of chemical processes such as the release of energy. This course will involve students developing solutions to authentic problem-based science issues and investigations, while exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM). *Content from Biogeochemical Systems and the 9th Grade Biology course will be assessed on the High School Maryland Integrated Science Assessment (MISA).*

420873 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students.

420883 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program.

420853 ESOL


**Chemistry**

*Course Code:* 430003, 430013, 430063

*Prerequisites:* Biology, Biogeochemical Systems, and successful completion of Algebra 1

*Credits:* 1.0 Physical Science

This course is designed to explore the study of matter and its interactions through laboratory investigations, scientific discussions, and phenomena based instruction. Students will apply science
and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to explain the structure, function and interactions of matter, at the macroscopic and the molecular-atomic levels. Students are expected to develop an understanding of chemical reactions, including rates of reactions and energy changes in terms of collisions of molecules, and the rearrangements of atoms as they make sense of their physical world through real world connections. Emphasis is placed on important biological and geophysical phenomena that support student explanations of the formation and abundance of elements, chemical bonding, radioactivity, and the release of energy. Students will apply an understanding of the process of optimization in engineering design to chemical reaction systems. This course will also involve students developing solutions to authentic problem-based physical science issues and investigations, while exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).

430083 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program.

420193 - Honors - Prerequisites Honors Biology
430293 Pre-Diploma Program
430393 Science and Technology Honors

Textbook(s): Chemistry, ISBN 9781323202296

Co-Academic Environmental Biology Lecture
Course Code: 425100
Prerequisites: Students must be rising 11th and 12th graders and have passed all HSA’s
Credits: 0.5 Science

This course involves a survey of basic scientific principles needed to understand current environmental problems and evaluate alternatives for solving those problems. Students who satisfy all conditions are eligible to earn three college credits.

Textbook(s): The Science Behind The Stories, ISBN 9780131357051

Co-Academic Environmental Biology Lab
Course Code: 425200
Prerequisites: Concurrent enrollment in Science 525100
Credits: 0.5 Science

This course supplements Science 425200. It provides laboratory and field experiences relevant to environmental issues. Students who satisfy all conditions are eligible to earn three college credits.

Textbook(s): The Science Behind The Stories, ISBN 9780131357051

Co-Academic Forensic Biology
Course Code: 425303
Prerequisites: Students must be rising 11th and 12th graders and have passed all HSA’s
Credits: 1.0 Science

This course is an introduction to the principles and concepts of the biological aspects of forensic science and an examination of the role of the laboratory in criminal investigation and human identification using forensic pathology, serology, anthropology, molecular biology and other specializations. Students who satisfy all conditions are eligible to earn four college credits.

Textbook(s): TBA
Earth and Space Systems Science

Course Code: 493003
Prerequisites: Biology, Biogeochemical Systems or Chemistry Honors
Credits: 1.0 Earth and Space Science

This course is designed to allow students to explore the Earth and beyond while learning skills that will enable them to apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to real world Earth and space science situations. Earth and Space Systems integrate key areas of science disciplinary core ideas including biology, chemistry, physics, geology and astronomy. This approach to learning affords students opportunities to distinguish among the four spheres that are essential to the study of the Earth (hydrosphere, geosphere, atmosphere, and biosphere), to recognize the delicate balance among these spheres, and to analyze the dramatic results when that balance is disrupted. This course will involve students developing solutions to authentic problem-based earth and space sciences' issues and investigations, while also exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).

Textbook(s): Geology, the Environment, and the Universe, ISBN 9780076587131

Dual Credit: Earning credit for PHSC 101 Earth Science I at Bowie State University makes a student eligible for 493013 Earth Space Sci DE credit.

Environmental Science

Course Code: 491103
Prerequisites: Biology, Biogeochemical Systems or Chemistry Honors
Credits: 1.0 Earth and Space Science or Physical Science

This course is designed as a comprehensive, contemporary environmental science course with emphasis on fieldwork and data collection and analysis. Students will apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to local and global to real-world environmental science issues. Students will also investigate the natural environment and the interrelationships among natural systems including biodiversity and population dynamics. This course will involve students developing solutions to authentic problem-based Environmental issues and investigations, while also exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).

491173 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

491183 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program.

Textbook(s): Environmental Science: Your World Your Turn, ISBN 9780133724752

Dual Credit: Earning credit for BIO 1110 at Prince George’s Community College makes a student eligible for 491213 Environmental Science DE credit.

Dual Credit: Earning credit for ENSP101 Introduction to Environmental Science at University of Maryland College Park makes a student eligible for 491213 Environmental Science DE credit.

Forensic Lab Science 1

Course Code: 433090
Prerequisites: Biology, Biogeochemical Systems or Chemistry Honors
Credits: 0.5 Elective

This course is an integrated science course involving the disciplines of biology, chemistry, Earth
science, archeology, anthropology, law, medicine, and professional/technical writing. Students will apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to real-world investigations involving crime scenes; evaluation of evidence, glass and soil sampling and analysis techniques; organic analysis; microscopic evaluation of evidence; and analysis of hair, fiber, paint, and drugs. This course will involve students developing solutions to authentic problem-based Forensics issues and investigations, while also exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).

Textbook(s): *Forensic Science for High School*, ISBN 9780757585517

**Forensic Lab Science 2**

**Course Code:** 433190  
**Prerequisites:** Biology, Biogeochemical Systems or Chemistry Honors, Forensic Lab Science 1  
**Credits:** 0.5 Elective  
This course is a continuation of the Forensic Lab Science 1 course. This is an integrated science course involving the disciplines of biology, chemistry, Earth science, archeology, anthropology, law, medicine, and professional/technical writing. Students will apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to real-world investigations involving crime scenes; evaluation of evidence, glass and soil sampling and analysis techniques; organic analysis; microscopic evaluation of evidence; and analysis of hair, fiber, paint, and drugs. This course will involve students developing solutions to authentic problem-based Forensics issues and investigations, while also exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).

Textbook(s): *Forensic Science for High School*, ISBN 9780757585517

**Medical Science**

**Course Codes:** 490600, 490680  
**Prerequisites:** Biology, Biogeochemical Systems or Chemistry Honors  
**Credits:** 0.5 Elective  
This course is designed to allow students to explore the science content and careers related to the fields of medicine. This content is inclusive of the exploration of health issues, medical research, ethical issues, cultural diversity awareness and much more.


**Microbiology**

**Course Code:** 440200  
**Prerequisites:** Biology, Biogeochemical Systems or Chemistry Honors  
**Credits:** 0.5 Elective  
This course is designed for those students who want to study microorganisms and their activities. It is concerned with the form, structure, reproduction, physiology, metabolism and identification of microbes. Students will apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to real-world investigations involving the study of microorganisms’ distribution in nature, their relationship to each other and other living things, their effects on humans, and changes they make in their environment. The technical aspects of lab work are emphasized. This course will involve students developing solutions to authentic problem-based Microbiological issues and investigations, while also exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).

Textbook(s): *Microbiology, a Human Perspective*, ISBN 9780073522593
Dual Credit: Earning credit for BIO 2010 Microbiology at Prince George's Community College makes a student eligible for 440210 Microbiology DE credit.

**Physics**

**Course Code:** 440103  
**Prerequisites:** Biology, Biogeochemical Systems and Chemistry or Chemistry Honors, and Concurrent Enrollment in Algebra 2  
**Credits:** 1.0 Physical Science  
This course is designed to explore the study of motion, stability, forces and interactions through laboratory investigations, scientific discussions, and phenomena based instruction. Students will apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to explain the laws of nature (physics). Students are expected to develop an understanding of momentum conservation, and describe and predict the gravitational and electrostatic forces between objects, as they make sense of their physical world. Students will also explore waves and their applications in technologies for information transfer, inclusive of wave properties and electromagnetic radiation. Additionally, students are expected to demonstrate their understanding of engineering ideas by explaining how technological devices use the principles of physics with matter to transmit and capture information and energy. This course will involve students developing solutions to authentic problem-based physical science issues and investigations, while exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).  
Textbook(s): *Physics*, ISBN 9780131371156

Dual Credit: Earning credit for PHY 1010 Introductory Physics at Prince George’s Community College makes a student eligible for 440113 Physics DE credit.

**Physics Honors**

**Course Code:** 440293  
**Prerequisites:** Honors Biology, Honors Chemistry, and Completion of or Concurrent Enrollment in Algebra 2  
**Credits:** 1.0 Physical Science; Weighted  
Honors Physics is a quantitatively rigorous, accelerated laboratory course designed to give students a more conceptual and in-depth understanding of the laws and theories of physics associated with forces and motion, types of interactions, wave properties, electromagnetic radiation, and information technologies and instrumentation. Students will apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to construct their understanding of the quantitative relationships within physics, including designing, conducting, and evaluating scientific investigations of physics phenomena. Significant independent research, quarterly engineering projects, and laboratory work are integral to the learning experience and will emphasize planning and carrying out investigations, analyzing, interpreting, and reporting data, and using algebraic expressions and exponents to solve complex equations as they develop solutions to real-world problems. This course will also involve students developing solutions to authentic problem-based physical science issues and investigations, while exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM). Upon successful completion of this course, students will be prepared for enrollment in Advanced Placement Physics.  
Textbook(s): *Physics*, ISBN 9780131371156
Science and Technology Program S/T

Enrollment in Science and Technology Program or Aerospace Engineering and Aviation Technology Program is required.

Architectural Drafting and Design S/T
Course Code: 811103
Prerequisites: Architectural Graphics ST
Credits: 1.0 Advanced Technology Education

Students in this level two course will use drafting equipment and tools to produce plans for a residential building and a model of their plans. Course topics include Residential House Design, Plot Planning, Reading a Contour, House Construction Techniques, Foundations, Insulation, Exterior Siding Materials, City Planning Issues, Land Use Controls, and Eco Friendly Design. Experiences and instruction will pertain to residential design considerations; architectural styling; floor plan development; drafting of floor plans, plot plans, foundations, elevations, details, and rendered (shaded and colored) pictorial illustrations: and model building procedures, materials, and techniques.

Textbook(s): Architecture
Materials: Building homes of our Own Design Software, ProDesktop Design Software

Architectural Graphics S/T
Course Code: 811200
Prerequisites: Engineering Foundations 2 S/T or Engineering Foundations and Research Design S/T
Credits: 0.5 Advanced Technology Education

This course requires students to use drafting equipment and computers (CAD) to produce plans for a residential building. Course topics include residential design considerations, architectural styling, floor plan developments, drafting of floor plans, plot plans, foundations, elevations, details, internet design projects, and rendered (shaded and colored) pictorial illustrations.

Textbook(s): Architectural Drafting and Design 4th Edition, Jefferies and Madsen

Organic Chemistry
Course Code: 431313
Prerequisites: Biology S/T, Chemistry S/T, Biology and Chemistry teacher recommendation
AP Biology or AP Chemistry
Credit: 1.0 Elective, Weighted

Organic Chemistry is an advanced level course in which students study the organic chemistry that occurs in biological systems. This course deals with the characteristics, molecular bonding, synthesis and reaction of most classes of organic compounds. The synthesis and metabolism of biochemical compounds are also included. There is a major concentration in the laboratory on the synthesizes, purification, and verification of structure of organic compounds using classical and instrumental means. The course culminates with a major individualized student-directed laboratory analysis of an unknown compound.

Textbook(s): Organic Chemistry, 10e, ISBN 9780073511214
Biology S/T

Course Code: 420793
Prerequisites: Enrollment in Science and Technology Program or Aerospace Engineering & Aviation Technology Program
Credits: 1.0 Science; Weighted

Honors Biology S/T is laboratory-based science class in which students will study the cell, the molecular basis of heredity, biological evolution, interdependence of organisms, matter and energy, and organization in living systems and the behavior of organisms. This course begins the journey into research and open-ended experimentation for the science and technology student. The course follows PGCPS Honors Biology Course derived from Next Generation Science Standards (NGSS) with curricular additions that provide additional opportunities for students to engage in problem based learning, and utilize STEM processes and standards of practices.

Textbook(s): Science Dimensions: Biology, ISBN 97805444861787

Chemistry S/T

Course Code: 430393
Prerequisites: Successful completion of Biology or Honors Biology S/T, and Algebra 1 or Algebra 1 S/T Concurrent or Completed Geometry, Geometry S/T, or Algebra 2 S/T
Credits: 1.0 Science; Weighted

Honors Chemistry S/T is laboratory-based science class in which students will study the structure and properties of matter as they explore chemical reactions, the structure of atoms, conservation and interactions of energy and matter. This course continues the journey into research and open-ended experimentation for the science and technology student. The course follows PGCPS Honors Chemistry Course derived from Next Generation Science Standards (NGSS) with curricular additions that provide additional opportunities for students to engage in problem based learning, and utilize STEM processes and standards of practices. Honors Chemistry S/T emphasizes laboratory orientation, concept development and career study.

Textbook(s): Chemistry, ISBN 9781323202296

Electronics Systems S/T

Course Code: 836103, 836200, 836300
Prerequisites: Engineering Foundations 2 S/T or Engineering Foundations and Research Design S/T
Credits: 0.5, 1.0 Advanced Technology Education

Students will use tools, equipment, and apparatus to work on and produce electronic circuits and systems. Experiences and instruction will pertain to characteristics of alternating current, metering devices, controlling and sensing devices, elementary digital mechanical systems, electronic components, circuit design and fabrication. Course topics include Electronic Theory, Careers in Electronics, Direct Circuit Design, Series and Parallel Circuity, Radio Technology, Fiber Optic Technology, Alternating Circuit Design, Low Voltage Circuity, Sensors, and Electronic Meter Reading and Operation. Sensors and entry level programming in Basic form the center of computer use in this course.

Textbook(s): TBA
Energy Systems S/T
Course Code:  870103, 870200, 870300
Prerequisites: Engineering Foundations 2 S/T or Engineering Foundations and Research Design S/T
Credits:  0.5, 1.0 Advanced Technology Education

Students will use tools and equipment in working on, analyzing, and building devices that convert energy into work, transmit energy from one location to another, and store energy. Course topics include Forms of Energy, Methods of Transforming Power, Energy in Transportation, Energy Sources, Renewable Energy Sources, Environmental Considerations with Energy Use, and Energy Technical and Professional Careers. Experiences and instruction will pertain to gasoline reciprocating engines; diesel engines; conventional electric generators and motors; boilers and furnaces; turbines; external heat engines; solar energy systems; refrigeration systems; mechanical, electrical, fluid, and thermal energy transmitters; and careers in the energy field at the technician and professional levels.

Textbook(s):  Power, Energy Technology

Engineering Drafting and Design S/T
Course Code:  811303
Prerequisites: Engineering Graphics S/T
Credits:  1.0 Advanced Technology Education

Students in this level two course use drafting equipment to produce technical drawings and to solve geometric drafting problems. Course topics include Conventional Drafting Techniques, Computer Aided Design (CAD) Methods, ProDesktop Usage, LandSat Images, schematic drawings, use of scale to produce high quality products, and rapid prototyping. Advanced experiences and instruction will pertain to machine drawing; pattern development; geometric intersections; structural drafting and design; auxiliary views and revolutions; rendered (shaded and colored) pictorial illustrations, schematic diagramming in the areas of electricity, electronics, plumbing, ventilation, and welding; statistical information diagramming; and land feature description (cartography). Computer Aided Design (CAD) programs are introduced and students learn how to project, extrude, revolve, chamfer, render, and export drawing files in other formats.

Textbook(s):  Technical Drawing ISBN 9780078457487

Engineering Foundations and Research Design S/T
Course Code:
Prerequisites: Technology Education Credit
Credits: 1

Engineering Foundations and Research Design is a requirement for tenth grade Science and Technology Program students. Students are introduced to the common components, and control of mechanical, fluid, thermal, electrical, and optical systems. The properties and characteristics of common engineering materials and the processes by which they are cut, formed, shaped, conditioned and assembled for engineering applications will be studied. Students will also apply their knowledge and skills in solving design and development problems through engineering team efforts. As students solve problems, they will build their skill set in research to include technical writing, descriptive statistics, components of research, presentations with use of graphs and tables. Plagiarism and ethics of research will be covered as well.

Textbook(s):  TBD
Engineering Graphics S/T  
**Course Code:** 811400  
**Prerequisites:** Engineering Foundations 2 S/T or Engineering Foundation and Research Design S/T  
**Credits:** 0.5 Advanced Technology Education  

This course requires students to use drafting equipment and computers (CAD) to produce technical drawings and to solve geometric drafting problems. Experiences and instruction will pertain to procedures and techniques for communicating information about the size and shape of objects; pattern development; schematic diagramming; statistical charting, and land feature description (cartography).  

Textbook(s): *Engineering Drafting and Design 3rd Edition*, Madsen

Foundations of Technology S/T  
**Course Code:** 842093  
**Prerequisites:** Enrollment in Science and Technology Program  
**Credits:** 1.0 Technology Education  

Students will develop an understanding of the influence of technology on history by exploring how people of all times and places have increased their capability by using their unique skills to innovate, improvise, and invent. They will gain an understanding of technology innovation and the fact that it often results when ideas, knowledge, or skills are shared within a technology, among technologies, or across other fields of study. Students will develop an understanding of engineering design, the formal process that transforms ideas into products or systems of the designed world. They will select and use manufacturing technologies and understand that modern manufacturing technologies produce quality goods at low prices, enhancing the quality of life for many people. Students will select and use construction technologies and recognize that cultural norms, environmental conditions, and the requirements of enterprises and institutions impact the design of structures. Opportunities will be provided that enable students to select and use energy and power technologies and to explore the processing and controlling of the energy resources that have been important in the development of contemporary technology. They will become familiar with information and communication technologies and their role in maintaining competitive economic growth. The course will conclude with the synthesizing of major ideas through an understanding of the core concepts of technology, with an emphasis on “systems thinking” and related principles.  

Textbook(s): *Technology*, ISBN 9781590707180

Genetics  
**Course Code:** 420503  
**Prerequisites:** Biology, Chemistry  
**Credits:** 1.0 Science  

This course, designed to meet the needs of students who have already taken a course in biology, is an activity oriented, hands-on, investigative program, which will train students in the skills necessary to study the cellular mechanisms of inheritance and extend their study of genetics. Laboratory and student research projects are included in the program. Students will apply science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to real-world investigations involving cellular reproduction, complex traits, DNA structure and replication, the human genome project, population genetics, and human origins. This course will involve students developing solutions to authentic problem-based Genetics issues and investigations, while also exploring career opportunities in Science, Technology, Engineering, and Mathematics (STEM).  

Internship S/T

Course Codes: 806103, 806203
Prerequisites: Assigned by S/T Coordinator and/or selected by Research Practicum Internship Panel
Credits: 1.0, 2.0 Elective

This course is designed to allow students time within the school day to conduct out-of-school research for Research Practicum (RP) project under the guidance of an engineer, scientist or computer scientist at a research facility or approved work site. Students are at the research site 4 days a week and a minimum of 2 ¾ hours each day. One day each week, the student is on campus the entire day, assigned to the RP teacher and/or Internship Coordinator for at least one class period. Each Internship S/T student will be required to maintain daily records of research activity(s) using a prescribed “log book” methodology and develop and maintain electronic and printed copies of a portfolio which includes: description of his/her internship, academic resume/vitae, all components of the 5-chapter RP paper, school report cards, letters of recommendation, and college acceptance letters. This is a 2 credit course that meets everyday. It is expected that students will spend 1 day in the school and 4 days out of the building. (20% in the building, 80% at the internship site)

Textbook(s): None

Physics S/T

Course Code: 440393
Prerequisites: Chemistry S/T, Geometry, Concurrent Algebra 2
Credits: 1.0 Science; Weighted

Honors Physics S/T is a laboratory-based science class in which students will study the fundamentals of the physical world of matter, energy, basic mechanics and particle physics. The course follows PGCPS Honors Physics Course derived from Next Generation Science Standards (NGSS) with curricular additions that provide additional opportunities for engagement in problem based learning, and utilization of STEM processes and standards of practices as well as engage in research and open-ended experimentation for the science and technology student.

Textbook(s): Physics, ISBN 9780131371156

Production Systems S/T

Course Codes: 870403, 870500, 870600
Prerequisite: Engineering Foundations 2 S/T or Engineering Foundations and Research Design S/T
Credits: 0.5,1.0 Advanced Technology Education

Students will use tools, machines, and materials in developing products, and in experimenting with materials and manufacturing processes. Experiences and instruction will pertain to hot and cold forming of materials; mechanical machining; casting; materials testing; production tooling; such assembling processes as welding, chemical bonding, and mechanical fastening; processes for material conditioning and finishing; characteristics and uses of industrial materials; computer control in industrial production; and careers in manufacturing at the technician and professional levels. Students will work with a varied of robotic devices to learn control and programming while developing an understanding of modern robotic theory. Students will model engineering design and management methods in various challenges while working as individuals and teams.

Textbook(s): Basic Manufacturing Processes, Manufacturing Technology: Today and Tomorrow
ISBN 9781590707807
Research Practicum S/T

Course Codes: 800023 Engineering, 800033 Physical Science, 800043 Biology, 800053 Watershed, 800063 Botany

Prerequisites: Successful completion of Science/Tech Requirements through grade 11, proficiency in Microsoft Office software applications

Credits: 1.0 Elective, Weighted

This course is the support for Science and Technology seniors to complete a research or design & development senior project. Areas of research include biology, chemistry, physics, engineering, and computer science. Requirements include Science Fair Participation, writing of a 5-chapter thesis-type paper, and participation in the Research Practicum (RP) Symposium. Steps of the RP process include topic selection, research design, implementation of research, statistical data analysis, interpretation of research findings, and presentation of research findings. Course topics are Project development, Proposal construction, Technical Writing, Statistics, Ethics, Use of Microsoft Excel, Microsoft Word, Microsoft PowerPoint, information processing, and scientific display of both backboard and poster.

Textbook(s): None

Research Practicum Internship S/T

Course Code: 800313

Prerequisites: Science/Tech Requirements through grade 11, proficiency in Microsoft Office software applications

Credits: 1.0 Elective

This course is the support for Science and Technology seniors to complete a research or design and development senior project from a specific internship experience. Areas of research can include biology, chemistry, physics, engineering, and/or computer science. Requirements include Science Fair Participation, writing of a 5-chapter thesis-type paper, and participation in the Research Practicum (RP) Symposium. Steps of the RP process include topic selection, research design, implementation of research, statistical data analysis, interpretation of research findings, and presentation of research findings. Course topics are Project Development, Proposal Construction, Technical Writing, Statistics, Ethics, use of Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Information Processing, and Scientific display of both backboard and poster.

Textbook(s): None

Structural Systems S/T

Course Code: 870703, 869800, 869900

Prerequisites: Engineering Foundations S/T 1 and 2

Credits: 0.5 Advanced Technology Education

Students will use equipment and materials in constructing a wood-frame structure. Experiences and instruction will pertain to light construction structural design; advanced wood-frame construction; brick masonry; surveying and site plotting; electrical wiring; plumbing systems and piping; insulating; building enclosing; interior finishing; testing of materials and structural components; design and installation of heating, cooling, and ventilating systems; current trends in structural design and engineering such as Code: specification in earthquake and storm surge prone areas; and design of trusses used in bridges, towers and steel structures.

Textbook(s): Static and Structures - Architecture
Social Studies

Academic Validation Government
Course Code: 015200
Prerequisites: High School Assessment eligibility
Credits: 0.00 Elective

This course provides students with the opportunity to complete Academic Validation Projects while preparing for the High School Assessment in Government for graduation.

Textbook(s): TBA

Advanced Placement American Government and Politics
Course Code: 250503
Prerequisites: Teacher approval; Strong reading, writing, and analytical thinking skills; Application and orientation session; U.S. History
Credits: 1.0 Social Studies; Weighted

The Advanced Placement course in American Government and Politics is designed to give students a critical perspective on politics and government in the United States. This course involves both the study of general concepts used to interpret American politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up the American political reality. Course topics to be included are: constitutional underpinnings of American government, political beliefs and behaviors, political parties and interest groups, institutions and policy processes of national government, civil rights and civil liberties. This course will prepare students for the AP exam and the Government HSA.

Textbook(s): American Government Roots and Reform, ISBN 9780132582445

Advanced Placement Comparative Government and Politics
Course Code: 250600
Prerequisites: Teacher approval; Strong reading, writing, and analytical thinking skills; Application and orientation session; U.S. History
Credits: 0.5 Elective; Weighted

The Advanced Placement course in Comparative Government and Politics is designed to help students gain knowledge of the world’s diverse political structures and practices. The course encompasses the study of both specific countries and of general concepts used to interpret the key political relationships found in virtually all-national politics. Five countries form the core of the AP examination. Four of these nations are Great Britain, France, the former Soviet Union/Russia, and China. These nations are included because they are commonly covered in college comparative systems. For the fifth nation, the AP examination will permit candidates to choose from among India, Mexico, and Nigeria.

Textbook(s): TBA

Advanced Placement Economics
Course Code: 290903
Prerequisites: Application and orientation session; Preferably 11th or 12th grade
Credits: 1.0 Elective; Weighted

The AP Economics course offers two separate examinations in economics: one in microeconomics and the other in macroeconomics. The content for this course is considered appropriate for the measurement of skills and knowledge in the fields of introductory microeconomics and macroeconomics. Each
examination is intended for qualified students who wish to complete studies in secondary school equivalent to a one-semester college introductory course. Students can elect to take one or both examinations in a given year. A separate grade will be reported for each examination.

Textbook(s): TBA

**Advanced Placement Human Geography**

*Course Code:* 280503  
*Prerequisites:* Application and orientation session; Preferably 11th or 12th grade  
*Credits:* 1.0 Elective; Weighted

The purpose of the Advanced Placement course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students employ spatial concepts and landscape analysis human social organization and its environmental consequences and learn about the methods and tools geographers use in their science and practice.

Textbook(s): *Introduction to Human Geography* ISBN 9780131346819

**Advanced Placement Macroeconomics**

*Course Code:* 290933  
*Prerequisites:* Application and orientation session; Preferably 11th or 12th grade  
*Credits:* 1.0 Elective; Weighted

The AP Macroeconomics course provides students with a thorough understanding of the principles of economics and how economists use those principles to examine aggregate economic behavior. Students learn how the measures of economic performance, such as gross domestic product (GDP), inflation, and unemployment are constructed and how to apply them to evaluate the macroeconomic conditions of an economy. The course recognizes the global nature of economics and provides ample opportunities to examine the impact of international trade and finance on national economies. Various economic schools of thought are introduced as students consider solutions to economic problems.

Textbook(s): College Board approved text

**Advanced Placement Microeconomics**

*Course Code:* 290923  
*Prerequisites:* None  
*Credits:* 1.0 Elective; Weighted

The purpose of the Advanced Placement course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students employ spatial concepts and landscape analysis human social organization and its environmental consequences and learn about the methods and tools geographers use in their science and practice.

Textbook(s): *Microeconomics*, ISBN 9780716771593

**Advanced Placement Psychology**

*Course Code:* 220103  
*Prerequisites:* Application and orientation session; Preferably 11th or 12th grade student  
*Credits:* 1.0 Elective, Weighted

This year-long course is designed to give the students a fundamental body of knowledge and skills in the area of psychology. The course will involve an investigation of the major approaches to this
study of psychology. It also will involve the use of research methods and statistical measurement to include inferential as well as descriptive statistics. Advanced Placement Psychology builds upon the foundation of the General Psychology course (or the psychology section of Introduction to Social/Behavioral Sciences), which is a prerequisite for this course. It also requires the student use methods and skills acquired in math and science courses as well as computer application. Advanced placement courses are designed for qualified students who wish to complete studies in secondary school that are equivalent to a one-semester college course in psychology. It is expected that upon completion of the course students will take and pass the college Board Advanced Placement test.

Textbook(s): *Psychology*, ISBN 9781464113079

**Advanced Placement United States History**

**Course Code:** 216593  
**Prerequisites:** Application and orientation session; Strong reading, writing, and analytical thinking skills.  
**Credits:** 1.0 U.S. History, Weighted

This year long course is designed for identified Honors and other recommended students. It focuses on American history from the Revolutionary War time period through the late twentieth century. The main goal is to provide students with college level experiences giving them a thorough background in relevant facts, and the skills to examine their significance and context.


**Advanced Placement World History**

**Course Code:** 261503  
**Prerequisites:** Application and orientation session; Strong reading, writing, and analytical thinking skills.  
**Credits:** 1.0 World History, Weighted

The purpose of the Advanced Placement World History course is to develop greater understanding of the evolution of global processes and contact, in interaction with different types of human societies. The course highlights the nature of changes in international frameworks and their causes and consequences.

Textbook(s): *Traditions & Encounters*, ISBN 9780076594382

**African American Studies**

**Course Code:** 234000  
**Prerequisites:** Preferably 11th or 12th grade  
**Credits:** 0.5 Elective

Beginning with a brief study of cultural roots in Africa, this semester course focuses on the African American experience in the United States. Emphasis is placed on understanding the contemporary life of African Americans in light of historical experience. African American involvement and impact on politics, economics and the arts are emphasized.


Dual Credit: Earning credit for HIST 114 African American History to 1865 at Bowie State University makes a student eligible for 234020 African Am Stud 1 DE credit.
African American Studies 2
Course Code: 234010
Prerequisites: African American Studies preferred
Credits: 0.5 Elective
African American Studies 2 will provide a study of the cultural contributions of African Americans to the global society. Emphasis is placed on understanding the contemporary life of African Americans in light of historical experience as well as the impact of African American involvement on politics, economics and the arts. This semester course focuses on the African American experience in the United States and abroad.

Textbook(s): African American History, ISBN 9780131947252; African American Experience; African Americans; Voices of Triumph series

Dual Credit: Earning credit for HIST 115 African American History from 1865 at Bowie State University makes a student eligible for 234030 African Am Stud 2 DE credit.

Anthropology
Course Code: 290600
Prerequisites: Preferably 11th or 12th grade student
Credits: 0.5 Elective
This semester course recommended for juniors and seniors, focuses on the study of humans and their cultures. Students learn some of the research tools and techniques used by professional anthropologists and identify the sub fields of anthropology. The course examines questions such as what factors influence human behavior; why do all societies have the same basic institutions; and how can we apply anthropological procedures to the study of present cultures.

Textbook(s): Anthropology, Ember, Ember and Peregrine, Pearson 2007

Dual Credit: Earning credit for ANTH 102 Introduction to Anthropology at Bowie State University makes a student eligible for 290640 Anthropology DE credit.

Comparative Religions
Course Code: 235100
Prerequisites: Preferably 11th or 12th grade
Credits: 0.5 Elective
This course is designed to introduce students to the history and traditions of the major religions of the world. While the primary focus will be on Hinduism, Buddhism, Judaism, Christianity, and Islam, other religions will also be examined. Students will be expected to understand the basic philosophy and practices of each religion as well as to recognize and appreciate the contribution each has made to mankind.

Textbook(s): Religions of the World; Many Peoples, Many Faiths: Women and Men in the World Religions

Deliberate Talk
Course Code: 291010
Prerequisites: None
Credits: 0.5 Elective
This elective course will provide systematic strategies to increase critical thinking skills for deliberation in the classroom. Students will develop public speaking skills through a variety of classroom simulations
for meaningful discussion about current information. The simulations include targeted content which provide students the opportunity to develop the art of asking the “right” questions, deliberating with reason, obtaining useful data as it relates to the real issues to formulate an informed point of view.

Textbook(s): Open source online resources for simulations

**Economic Issues**
*Course Code:* 290300  
*Prerequisites:* Preferably 11th or 12th grade student  
*Credits:* 0.5 Elective

This semester course acquaints students with some major economic problems facing Americans. Students will become aware of the decision-making processes in today’s mixed economy. Attention will be focused on such goals as wise use of resources, price stability, unemployment, and protection of the consumer. As much as possible, the course involves students in practical experiences with local economic institutions.

Textbook(s): *Economics: Today and Tomorrow,* ISBN 9780078606960; *Current Issues by Close-Up Foundation*

**Foreign Policy Issues**
*Course Code:* 290400  
*Prerequisites:* Preferably 11th or 12th grade student  
*Credits:* 0.5 Elective

This semester course is designed to help students think clearly about America’s role in the community of nations. Emphasis is placed on national goals or interests and the means to achieve them. International conflict is shown to be a result of conflicting national interests, as well as misunderstandings and incomplete information on the part of national decision makers. Students should develop insight into foreign policy issues and the role of American foreign policy in different parts of the world.

Textbook(s): *Open Educational Resources (OER)*  
Dual Credit: Earning credit for HST 2310 History of American Foreign Policy at Prince George’s Community College makes a student eligible for 290410 Foreign Policy Issues DE credit.

**Global Issues**
*Course Code:* 275203  
*Prerequisites:* U.S. History II; Local, State and National Government; World History  
*Credits:* 1.0 Elective

This course addresses foreign policy of the United States as a world power after World War II to the present. Students engage in content using a history day project format.

Textbook(s): Open Source Materials

**Latin American Area Studies**
*Course Code:* 234300  
*Prerequisites:* Preferably 11th or 12th grade student  
*Credits:* 0.5 Elective

This semester course extends student understanding of the Spanish and Portuguese speaking nations of North and South America. Emphasis is placed on the geographic, historical, and economic factors
influencing these nations. Special attention is given to the contributions of the Indian, European, and African peoples in shaping the traditions and present day characteristics of Latin American societies.

Textbook(s): *Latin Studies; The Latino Experience*

**Local, State, and National Government**

*Course Codes:* 213103, 213143, 213153, 213163  
*Prerequisites:* United States History  
*Credits:* 1.0 LSN Government

This year-long course provides students with a comprehensive examination of the basic concepts and principles of our federal system of government. Course study includes a focus on the foundations of government; an overview of the United States political system; study of the legislative, executive, and judicial branches of government; explanation of citizenship rights and responsibilities; examination of structure and functions of state and local governments; and study of global perspective on governmental relationships. Students will take the High School Assessment in Government at the end of this course.


213173 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

213183 Intensive - This course is designed to be a small class environment for special education students enrolled in a designated special education program.

213293 Honors - Prerequisites: United States History, Student that meets 3 of the 6 following criteria: A/B average in previous year’s Social Studies course; Advanced on previous year’s SRI score; Social Studies Teacher recommendation and/or advocacy; 60% or greater on previous year’s Social Studies Post SLO assessment; Student personal statement/letter of interest; Student expresses desire and motivation, work ethic; In most cases, students who are identified as TAG will be placed in an Honors course with these exceptions: there is not an interest in taking the course (perhaps domain-specific strength is in Math), student is reading significantly below reading level.

213393 Pre-Diploma Program - Prerequisites: United States History, Student that meets 3 of the 6 following criteria: A/B average in previous year’s Social Studies course; Advanced on previous year’s SRI score; Social Studies Teacher recommendation and/or advocacy; 60% or greater on previous year’s Social Studies Post SLO assessment; Student personal statement/letter of interest; Student expresses desire and motivation, work ethic

Dual Credit: Earning credit for POS 1010 American National Government and POS 1020 Local and State Government at Prince George’s Community College makes a student eligible for 212210 LSN Government 1 DE and 213310 LSN Government 2 DE credit.

**Philosophy**

*Course Code:* 290620  
*Prerequisites:* Preferably 11th or 12th grade student  
*Credits:* 0.5 Elective

This course is a critical reasoning/informal logic course designed to teach students to evaluate logical arguments in daily life and conversation. Students will learn to recognize arguments, the difference between deductive and inductive reasoning, and to recognize and identify informal fallacies. A large part of the course will be devoted to the logic of induction, including the role it plays in probability theory, statistical methods of reasoning, and marking off the difference between science and superstition.
Students will also learn the role of inductive logic and analogy in legal and moral reasoning, as well as in discovering causal connections.


Dual Credit: Earning credit for PHIL 101 Introduction to Philosophy at Bowie State University makes a student eligible for 290710 Intro Philosophy DE credit.

Dual Credit: Earning credit for PHIL 103 Introduction to the Principles of Reasoning at Bowie State University makes a student eligible for 290720 Intro Reasoning DE credit.

**Political Issues**

*Course Code:* 290200  
*Prerequisites:* Preferably 11th or 12th grade student  
*Credits:* 0.5 Elective

The emphasis in this course is on the processes and problems of the American political system. Questions of political power, authority, leadership, and individual rights are basic to the course. Students are encouraged to be actively involved in political organizations and government agencies.

Textbook(s): *Open Educational Resources (OER)*

**Practical Law**

*Course Code:* 290700  
*Prerequisites:* Grade 11 or 12 Non-Academy student; Pre-Law and Social Justice pathway student and good attendance  
*Credits:* 0.5 Elective

This semester course is designed to provide students an opportunity to pursue their interest in practical aspects of the law. The course will provide a framework for the county’s mock trial program and will involve participation by the Bar Association and law enforcement agencies. The course provides practical information and problem-solving opportunities necessary for survival in our society. The course includes role-playing, small group activities, opinion polls, and visual analysis experiences as well as mock trials.

Textbook(s): *Street Law*, ISBN 9780078799839

**Psychology**

*Course Code:* 220000  
*Prerequisites:* Grade 11 or 12 student  
*Credits:* 0.5 Elective

This semester course recommended for juniors and seniors introduces students to the psychological research and concepts of human behavior. Course topics include research methodologies, biological bases of behavior, sensation and perception, principles of learning and memory, intelligence, personality development, and psychological pathologies.


Dual Credit: Earning credit for PSY 1010 General Psychology credit at Prince George’s Community College makes a student eligible for 200010 Psychology DE credit.

Dual Credit: Earning credit for PSYC 101 General Psychology at Bowie State University makes a student eligible for 200010 Psychology DE credit.
Revolutionaries and Reformers in U.S. History
Course Code: 275103
Prerequisites: Grade 9 American History Scholars student
Credits: 1.0 Elective
This year-long course is required for ninth grade participants in the Gilder-Lehrman American History Scholars Program. It provides in-depth instruction in historical research methods. Students use primary and secondary sources to complete a major project suitable for the National History Day competition. Using a chronological approach to nineteenth century U.S. History, this course complements and supports the required U.S. History course since 1877. Students' interest in U.S. History is engaged by focusing on individuals who made a difference in the evolution of our nation’s story and through use of resources, especially documents, from the Gilder-Lehrman collection. This course is for the American Scholar Program only.

Textbook(s): The American Republic to 1877, ISBN 9780078607127

Social Studies Seminar for AP American Government & Politics
Course Code: 250513
Prerequisites: Current AP American Govt & Politics student
Credits: 1.0 Elective
Advanced Placement Social Studies Seminar is designed to provide additional skill based instruction for the rigors of an Advanced Placement course. The seminar component of each course focuses on the strategies that will build the skills necessary for success in Advanced Placement. Students will be afforded the opportunity to practice the learned skills for success in taking an AP exam that is content specific.

Textbook(s): American Government Roots and Reform, ISBN 9780132582445

Social Studies Seminar for AP Comparative Government & Politics
Course Code: 250610
Prerequisites: Current AP Comparative Govt & Politics student
Credits: 0.5 Elective
Advanced Placement Social Studies Seminar is designed to provide additional skill based instruction for the rigors of an Advanced Placement course. The seminar component of each course focuses on the strategies that will build the skills necessary for success in Advanced Placement. Students will be afforded the opportunity to practice the learned skills for success in taking an AP exam that is content specific.

Textbook(s): TBA

Social Studies Seminar for AP Economics
Course Code: 290993
Prerequisites: Current AP Economics student
Credits: 1.0 Elective
Advanced Placement Social Studies Seminar is designed to provide additional skill based instruction for the rigors of an Advanced Placement course. The seminar component of each course focuses on the strategies that will build the skills necessary for success in Advanced Placement. Students will be afforded the opportunity to practice the learned skills for success in taking an AP exam that is content specific.

Textbook(s): TBA
Social Studies Seminar for AP Psychology
Course Code: 220113
Prerequisites: Current AP Psychology student
Credits: 1.0 Elective
Advanced Placement Social Studies Seminar is designed to provide additional skill based instruction for the rigors of an Advanced Placement course. The seminar component of each course focuses on the strategies that will build the skills necessary for success in Advanced Placement. Students will be afforded the opportunity to practice the learned skills for success in taking an AP exam that is content specific.

Textbook(s): Psychology for AP, ISBN 9781464113079

Social Studies Seminar for AP US History
Course Code: 216603
Prerequisites: Current AP US History student
Credits: 1.0 Elective
Advanced Placement Social Studies Seminar is designed to provide additional skill based instruction for the rigors of an Advanced Placement course. The seminar component of each course focuses on the strategies that will build the skills necessary for success in Advanced Placement. Students will be afforded the opportunity to practice the learned skills for success in taking an AP exam that is content specific.

Textbook(s): The American Pageant, ISBN 9780547166629

Social Studies Seminar for AP World History
Course Code: 261513
Prerequisites: Current AP World History student
Credits: 1.0 Elective
Advanced Placement Social Studies Seminar is designed to provide additional skill based instruction for the rigors of an Advanced Placement course. The seminar component of each course focuses on the strategies that will build the skills necessary for success in Advanced Placement. Students will be afforded the opportunity to practice the learned skills for success in taking an AP exam that is content specific.

Textbook(s): Traditions & Encounters, Glencoe- McGraw/Hill ISBN 9780076594382

Sociology
Course Code: 290610
Prerequisites: Grade 11 or 12 student
Credits: 0.5 Elective
This semester course recommended for juniors and seniors focuses on defining the science of sociology; examines the question of issues involved in the study of humans and their cultures, family and socialization, factors influencing human behavior, and solutions of the individual; institutions; social problems; and the effects of rapid technological changes and urbanization.

Textbook(s): Sociology and You

Dual Credit: Earning credit for SOC 101 Introduction to Sociology at Prince George’s Community College makes a student eligible for 290630 Sociology DE credit.

Dual Credit: Earning credit for SOCI 101 Introduction to Sociology at Bowie State University makes a student eligible for 290630 Sociology DE credit.
**Student Board Member**

*Course Code:* 253003  
*Prerequisites:* Elected by peers to the office  
*Credits:* 1.0 Elective

This course is intended for the student elected by PGCRASG to serve as the student board member for the Prince George's County Public Schools Board of Education for the school year.

Textbook(s): None

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**Student Government Association 101 (Year One High School)**

*Course Code:* 250613  
*Prerequisites:* None  
*Credits:* 1.0 Elective

This course provides a study of the legislative, educational and philosophical basis of student government. The course may include travel to other campuses, local, regional and state conferences and provide the opportunity to participate on faculty and administrative committees. Topics are designed to teach leadership skills and give practical experience in the social and civic responsibilities of student government. An emphasis will be placed on fostering a school-wide environment for all students to express and exchange opinions and ideas, develop leadership skills and promote student representation and involvement in all groups and organizations impacting the lives of students.

Textbook(s): None

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**Student Government Association 102 (Year Two High School)**

*Course Code:* 250623  
*Prerequisites:* Year One Student Government Association  
*Credits:* 1.0 Elective

This course is designed to introduce students to the fundamental elements of leadership as it pertains to student governmental processes, team and community building. Students will examine contemporary leadership models as well as their own values and beliefs to develop a personal philosophy of leadership. Through activities and projects facilitated by student government, students will learn how to apply theory and experience leadership in the high school and community settings. Students interested in broadening their understanding of diverse topics related to self-knowledge, group dynamics and leadership are encouraged to enroll.

Textbook(s): None

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**Student Government Association 103 (Year Three High School)**

*Course Code:* 250633  
*Prerequisites:* Year Two Student Government Association  
*Credits:* 1.0 Elective

This course provides opportunities to study, practice and develop group and individual leadership and organizational skills. These skills include decision-making, problem-solving, effective communication, leadership roles and understanding the need for civic responsibility. Students enrolled in this course will apply these skills in the relationships with peers, administration and community stakeholders. The course is a hands-on and interactive learning approach to leadership. This course is customized to meet the needs of a student government association but can also be adapted to a broader student population.

Textbook(s): None
Student Government Association 104 (Year Four High School)

Course Code: 250643
Prerequisites: Year Three Student Government Association
Credits: 1.0 Elective

This course is a compilation and continuation of the themes and activities of the SGA 101, 102, 103 courses. The course focuses on actual participation in the local political arena and will include a school-wide service learning project and independent study.

Textbook(s): None

Student Government President (PGC Regional)

Course Code: 254003
Prerequisites: Elected by peers to the office
Credits: 1.0 Elective

The President will preside over all meetings, serve as the organization’s official spokesperson, supervise enactment of all meeting approved legislation, be an ex-officio member of all committees created, serve as the official representative of the organization to the Maryland Association of Student Councils, make an address on the state of the organization to the General Assembly at the end of his/her term, present written quarterly reports of the organization’s activities to every member school president, and perform all duties developing from the office.

Textbook(s): None

United States History II Reconstruction to Present

Course Codes: 262903, 262963
Prerequisites: United States History I
Credits: 1.0 U.S. History

This course examines how the American political, economic, and social systems developed. Twentieth century content includes issues related to the development of foreign policy, the role of the United States as a world leader, and the domestic response to a diversified population and issues such as reform and civil rights.

262973 Co-Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general educator and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

262983 Intensive - This course is designed to be a small class environment for special education students enrolled on a designated special education program.

262953 ESOL

262293 - Honors - Prerequisites: United States History I; Student that meets 3 of the 6 following criteria: A/B average in previous year’s Social Studies course; Advanced on previous year’s SRI score; Social Studies Teacher recommendation and/or advocacy; 60% or greater on previous year’s Social Studies Post SLO assessment; Student personal statement/letter of interest; Student expresses desire and motivation, work ethic; In most cases, students who are identified as TAG will be placed in an Honors course with these exceptions: there is not an interest in taking the course (perhaps domain-specific strength is in Math), student is reading significantly below reading level.

262393 Pre-Diploma Program - Prerequisites: United States History I; Student that meets 3 of the 6 following criteria: A/B average in previous year’s Social Studies course; Advanced on previous year’s SRI score; Social Studies Teacher recommendation and/or advocacy; 60% or greater on previous year’s Social Studies Post SLO assessment; Student personal statement/letter of interest; Student
expresses desire and motivation, work ethic. In most cases, students who are identified as TAG will be placed in an Honors course with these exceptions: there is not an interest in taking the course (perhaps domain-specific strength is in Math), student is reading significantly below reading level.

Dual Credit: Earning credit for HST 1410 History of the United States I and HST 1430 History of the United States II at Prince George’s Community College makes a student eligible for 262010 US History Pt 1 DE and 262020 US History Pt 2 DE credit.

Textbook(s): *United States History: Reconstruction to the Present, ISBN 9780544669062*

**United States History through the Arts**

*Course Code:* 275303  
*Prerequisites:* United States History I  
*Credits:* 1.0 Elective

This course is designed in collaboration with the Gilder Lehrman program whereby students engage in a study of United States history through the analysis of 20th Centruey Arts.

Textbook(s): None

**Women’s Studies**

*Course Code:* 219900  
*Prerequisites:* Preferably 11th or 12th grade student  
*Credits:* 0.5 Elective

This course in women’s studies focuses on the experience of women in the United States. It highlights the role(s) of women within society, past and present; the contributions of women; the struggle for equality; and the changing roles of women. This course is concerned with fostering the development of critical thinking, analysis, and research skills. Learning experiences include varied individual and cooperative learning projects, discussion, and hands-on activities.

Textbook(s): *Women, Politics and American Society, ISBN 9780321202314*

**World History**

*Course Code:* 261003  
*Prerequisites:* Local, State, and National Government  
*Credits:* 1.0 World History

This course focuses on modern world history beginning approximately 1400 AD. The course is based on four major themes: human interactions; hemispheric interactions; crisis, progress and change in the 20th century; and the challenges of the 21st century.

261073 Co Teach - This course is designed to have a general education teacher work in collaboration with a special educator in order to ensure that both general educator in order to ensure that both general education and special education students have access to the general education curriculum while incorporating instructional practices and strategies to meet the needs of all students;

261083 Intensive - This course is designed to be a small class environment for special education students enrolled on a designated special education program.

261053 ESOL

261193 - Honors - Prerequisites: Local, State, and National Government; Student that meets 3 of the 6 following criteria: A/B average in previous year’s Social Studies course; Advanced on previous year’s SRI score; Social Studies Teacher recommendation and/or advocacy; 60% or greater on previous year’s Social Studies Post SLO assessment; Student personal statement/letter of interest; Student expresses desire and motivation, work ethic; and in most cases, students who are identified as TAG will be placed in an Honors course with these exceptions: there is not an interest in taking the
course (perhaps domain-specific strength is in Math), student is reading significantly below reading level.


Dual Credit: Earning credit for HST 1310 Ancient and Medieval History and HST 1320 Modern History credit at Prince George’s Community College makes a student eligible for 261110 World History 1 DE and 261210 World History 2 DE credit.

**SPECIAL EDUCATION**

Courses are designed to facilitate alternate academic learning outcomes linked to the Maryland College and Career Ready State Standards appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). Students access the general education curricula with substantial modifications and adaptations as appropriate. All students in these courses must have a current Individualized Education Program (IEP).

**Academic Resource Support - Autism**

*Course Code:*  
Grade 9 - 142260, 142261, 142263  
Grade 10 - 142360, 142361, 142363  
Grade 11 - 142560, 142561, 142563  
Grade 12 - 142760, 142761, 142763

*Prerequisites:* IEP

*Credits:* 0.5 - 1.0 Elective

This course provides students with a disability of Autism, specific social skills instruction, in order to address goals and objectives on the student’s Individual Education Program (IEP) thereby increasing access to the general education curriculum. Course curriculum covers various topics including Individual learning strategies, disability awareness, goal setting, self-advocacy, executive functioning strategies, organizational skills, managing anxiety and stress, resiliency, and test taking strategies, that will enhance academic performance across all content areas. This class is delivered in a small class environment.

Textbook(s): TBA

**Special Education - Art**

*Art Alt.*

*Course Codes:* 602110

*Prerequisites:* IEP and Participation in an Alternate Academic Outcomes

*Credits:* 0.00

The curriculum provides various art experiences that allow students to identify, describe and interpret observed forms. Students have opportunities to create images and forms from observation, memory, imagination and feelings. Students also observe and describe artworks using art vocabulary to express personal responses. Group activities are a part of this course. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA
Independent Living Skills Art

Course Code: 682600
Credits: 0.0
This course is designed to provide special education students with skill development in the area of practical living for maximum independence and daily living activities. Students enrolled in this course will develop and practice skills in the areas of cooking, shopping, cleaning, laundry, etiquette, appropriate peer interaction, independent living (living on your own) recreation and leisure activities. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

Special Education - Business

Financial Literacy Alt.

Course Codes: 138530, 138533
Prerequisites: IEP and Instruction based on Alternate Academic Learning Outcomes
Credits: 0.00
This course is designed to provide special education students with skill development in a variety of math units to assist in acquiring personal finance, math for everyday life principles (home, community and shopping) and math in the workplace. Students will learn skills to manage their own banking, budgeting, check writing and understanding their paycheck. The implementation of these principles will enable students to apply decision making skills to become conscientious consumers, savers, money managers, and citizens. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

Special Education - Career Research and Development

Career Research and Development I Alt

Course Codes: 138543
Prerequisites: Grade 9 and 10, IEP and Instruction based on Alternate Academic Learning Outcomes
Credits: 0.00
Career Research and Development empowers students to create a vision of their future through quality academic coursework, progressive career development, and job sampling through work-based learning opportunities. This course is designed to teach students the process of self-awareness, self-advocacy, career exploration, interest and aptitude assessment, and setting academic and career-related goals. Course content will integrate the development of student’s competency in basic concepts of personal financial literacy and skills for success i.e. learning, critical thinking, communication, basic technology, soft skills and interpersonal skills. The class also provides direct linkages to transition services, adult agencies and supports as students move from school to careers. Each student’s needs are determined through their Transition Plan and their Individual Education Program.

Textbook(s): TBA
Career Research and Development II Alt.
Course Codes: 138553
Prerequisites: IEP and Instruction based on Alternate Academic Learning Outcomes and Completion of CRD I Alt.
Credits: 0.00
This school to careers course is for special education students who have completed Career Research and Development I Alt. This course is focused on career research and preparation, job seeking techniques, employability skills, i.e., ethics, oral and written communications, technology, and financial literacy. Students will continue building and strengthening their career portfolio to demonstrate proficiencies in workplace readiness, personal financial management, personal growth and development, and employment experiences. Students will use the career portfolio as part of the interviewing process. This course provides direct linkages to transition services, adult agencies and supports as students move from school to careers. Each student's needs are determined through their Transition Plan and their Individual Education Program.
Textbook(s): TBA

Career Research and Development II Alt. Work
Course Codes: 138563
Prerequisites: IEP and Instruction based on Alternate Academic Learning Outcomes
Credits: 0.00
This course focuses on volunteer experiences, work experiences and supported work experiences. Students are employed at school-approved and monitored job sites in private industry and/or government agencies. The work component allows students to put into practice the basic employability skills and academic content they acquire in the classroom in fields related to their career Interests and capabilities. They attend school part of the day where they are concurrently enrolled in Career Research and Development II Alt. The student's portfolio will document proficiency in workplace readiness skills as indicated in the student's work-based learning training plan. The work-based learning experience is determined by their Transition Plan included in their Individualized Education Program.
Textbook(s): TBA

Workplace Literacy Alt.
Course Codes: 989920, 989923
Prerequisites: IEP and Instruction based on Alternate Academic Learning Outcomes
This course focuses on volunteer experiences, work experiences and supported work experiences. Students are employed at school-approved and monitored job sites in private industry and/or government agencies. The work component allows students to put into practice the basic employability skills and academic content they acquire in the classroom in fields related to their career Interests and capabilities. They attend school part of the day where they are concurrently enrolled in Career Research and Development II Alt. The student's portfolio will document proficiency in workplace readiness skills as indicated in the student's work-based learning training plan. The work-based learning experience is determined by their Transition Plan included in their Individualized Education Program.
Textbook(s): TBA
**Special Education - Electives**

**Hearing Resource**

*Course Code:* 041101, 041102, 041103 Period 1; 041201, 041202, 041203 Period 2; 041301, 041302, 041303 Period 3; 041401, 041402, 041403 Period 4; 041501, 041502, 041503 Period 5; 041601, 041602, 041603 Period 6; 041701, 041702, 041703 Period 7; 041801, 041802, 041803 Period 8

*Prerequisites:* Deaf or hard of hearing

*Credits:* 0.5 or 1.0 Elective

In the Academic Resource room, deaf and hard of hearing students will have an opportunity to learn and develop critical academic skills (reading, writing, vocabulary, and math) which are needed in order to access the general education curriculum, prepare for the high school assessments, and learn self-advocacy skills. The students will also develop a plan that will connect them from high school to post-secondary education or employment (may include transition activities, goal setting, career search, interest inventories, and designing a career portfolio).

Textbook(s): TBA

**Special Education - English**

**English 9 Alt.**

*Course Codes:* 139013

*Prerequisites:* IEP and Participation in an Alternate Assessment

*Credits:* 0.00

This course is designed to provide students access to the development of strategies for reading comprehension, vocabulary, language usage skills, and writing skills. Students will learn the skills to identify and analyze fiction and non-fiction literary texts. Students will engage in reading, writing, speaking and listening activities with real world application. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

**English 10 Alt.**

*Course Codes:* 139023

*Prerequisites:* IEP and Participation in an Alternate Assessment

*Credits:* 0.00

This course is designed to provide students access to the development of strategies for reading comprehension, vocabulary, language usage skills, and writing skills. Students will learn the skills to identify and analyze fiction and non-fiction literary texts. Students will engage in reading, writing, speaking and listening activities with real world application. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA
**English 11 Alt.**

*Course Codes: 139033*

*Prerequisites: IEP and Participation in an Alternate Assessment*

*Credits: 0.00*

This course is designed to provide students access to the development of strategies for reading comprehension, vocabulary, language usage skills, and writing skills. Students will learn the skills to identify and analyze fiction and non-fiction literary texts. Students will engage in reading, writing, speaking and listening activities with real world application. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

**English 12 Alt.**

*Course Codes: 139003*

*Prerequisites: IEP and Participation in an Alternate Assessment*

*Credits: 0.00*

This course is designed to provide students access to the development of strategies for reading comprehension, vocabulary, language usage skills, and writing skills. Students will learn the skills to identify and analyze fiction and non-fiction literary texts. Students will engage in reading, writing, speaking and listening activities with real world application. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

**Special Education - Health Education**

**Health Education Alt.**

*Course Codes: 747010*

*Prerequisites: IEP and Instruction based on Alternate Academic Learning Outcomes*

*Credits: 0.0*

This course is designed to provide special education students with skill development in a variety of topics in Health Education. Students will acquire knowledge about general health topics including fitness, healthy decision-making, food and nutrition, hygiene, family life and human development, communication, stress management, safety in the home and community, injury prevention and basic first aid. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA
Special Education - Mathematics

Mathematics 9 Alt.
Course Codes:  307003
Prerequisites:  IEP and Participation in an Alternate Assessment
Credits:  0.00
This course is designed to provide students access to the mathematics standards to include number and quantity, algebra, functions, geometry and statistics & probability in real-world mathematics situations. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.
Textbook(s): TBA

Mathematics 10 Alt.
Course Codes:  307013
Prerequisites:  IEP and Participation in an Alternate Assessment
Credits:  0.00
This course is designed to provide students access to the mathematics standards to include number and quantity, algebra, functions, geometry and statistics & probability in real-world mathematics situations. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.
Textbook(s): TBA

Mathematics 11 Alt.
Course Codes:  307023
Prerequisites:  IEP and Participation in an Alternate Assessment
Credits:  0.00
This course is designed to provide students access to the mathematics standards to include number and quantity, algebra, functions, geometry and statistics & probability in real-world mathematics situations. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.
Textbook(s): TBA

Mathematics 12 Alt.
Course Codes:  375303
Prerequisites:  IEP and Instruction based on Alternate Academic Learning Outcomes
Credits:  0.00
This course is designed to provide students access to the mathematics standards to include number and quantity, algebra, functions, geometry and statistics & probability in real-world mathematics situations. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP).
This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

**Special Education - Music**

**Music Alt.**

**Course Code:** 623010  
**Prerequisites:** IEP and Instruction based on Alternate Academic Learning Outcomes  
**Credits:** 0.00

The Vocal and General Music Program of Instruction provides all students with appropriate resources and experiences to develop positive attitudes and sensitivities toward music. Through the implementation of sequential musical skills and concepts, students develop an understanding of the intrinsic value of music and its relationship to diverse cultures, traditions, values and beliefs. The program is also designed to foster enjoyment and appreciation of music beyond the limits of classroom instruction. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): Instructional materials aligned with student developmental level

**Special Education - Physical Education**

**Adapted Physical Education Alt.**

**Course Code:** 712113  
**Prerequisites:** IEP  
**Credits:** 0.00

The adapted physical education program is based on the Maryland Physical Education Content Standards delivered through adapted physical education services as documented in an individual student's IEP. The program components develop physically literate students in the acquisition of motor skills and movement patterns as well as the application of knowledge of concepts, principles, strategies and tactics related to movement and performance. Students will demonstrate their knowledge and skills in order to achieve and maintain a health-enhancing level of physical activity and fitness with the recognition of the value of physical activity for health, enjoyment, challenge, self-expression and/or social interaction. Students will be introduced to an array of components, themes, and activities which address each of the content standards aligned to the grade level general education curriculum; however, the student will require a different scope and sequence, adapted and modified, instruction, materials and equipment.

Textbook(s): TBA

**Biogeochemical Systems Alt.**

**Course Code:** 420863  
**Prerequisites:** IEP and Participation in an Alternate Assessment  
**Credits:** 0.00

This course is designed to illustrate the role of chemical processes, inclusive of photosynthesis and cellular respiration, in the cycling of carbon among Earth's spheres. Students will explore the study of matter and its interactions, motion, stability, and force through laboratory investigations, scientific discussions, and phenomena based instruction. Students will apply the science and engineering practices and crosscutting concepts of the Next Generation Science Standards (NGSS) to explain systems interactions: the flow of energy among organisms in an ecosystem, the control of weather
and climate with a major emphasis on the mechanisms and implications of climate change, and the
importance of biological and geophysical phenomena that support student explanations of chemical
processes such as the release of energy. This course is designed to facilitate alternate academic
learning outcomes appropriate to the instructional needs of the student, as documented in the
Individualized Education Program (IEP). This course is linked to the general education curriculum;
however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

**Biology Alt.**

Course Code:  138513
Prerequisites:  IEP and Participation in an Alternate Assessment
Credits:  0.00

This course is designed to provide students access to how living things function, develop, and interact
within their environments. Instruction is designed to promote student inquiry through conducting
investigations. This course is designed to facilitate alternate academic learning outcomes appropriate
to the instructional needs of the student, as documented in the Individualized Education Program
(IEP). This course is linked to the general education curriculum; however, the student will require a
different scope and sequence, adapted and modified materials.

Textbook(s): TBA

**Earth and Space Systems Alt.**

Course Code:  493033
Prerequisites:  IEP and Participation in an Alternate Assessment
Credits:  0.00

This course is designed to allow students to explore the Earth and beyond while learning skills that
will enable them to apply science and engineering practices and crosscutting concepts of the Next
Generation Science Standards (NGSS) to real world Earth and space science situations. Earth and
Space Systems integrate key areas of science disciplinary core ideas including biology, chemistry,
physics, geology and astronomy. This approach to learning affords students opportunities to distinguish
among the four spheres that are essential to the study of the Earth (hydrosphere, geosphere,
atmosphere, and biosphere), to recognize the delicate balance among these spheres, and to analyze
the dramatic results when that balance is disrupted. This course will involve students developing
solutions to authentic problem-based earth and space sciences' issues and investigations. This
course is designed to facilitate alternate academic learning outcomes appropriate to the instructional
needs of the student, as documented in the Individualized Education Program (IEP). This course is
linked to the general education curriculum; however, the student will require a different scope and
sequence, adapted and modified materials.

Textbook(s): TBA

**Environmental Science Alt.**

Course Code:  138523
Prerequisites:  IEP, Participation in Alternate Assessment
Credits:  0.00

This course is designed to provide students access in basic topics in Environmental Science. Students
will investigate the natural environment and the interrelationships among natural systems including
biodiversity and population dynamics. This course is designed to facilitate alternate academic learning
outcomes appropriate to the instructional needs of the student, as documented in the Individualized
Education Program (IEP). This course is linked to the general education curriculum; however, the
Special Education - Social Studies

United States History Alt.

Course Code: 207103
Prerequisites: IEP and Instruction based on Alternate Academic Learning Outcomes
Credits: 0.0

This course is designed to provide students access to the basic topics in United States History. The class examines how the American political, economic and social systems developed. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Plan (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

Local, State, and National Government Alt.

Course Codes: 207113
Prerequisites: IEP and Instruction based on Alternate Academic Learning Outcomes
Credits: 0.0

This course is designed to provide students with access to the basic topics in Local, State and National Government. The class examines the basic concepts and principles of our federal system of government. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA

World History Alt

Course Code: 261013
Prerequisites: IEP and Instruction based on Alternate Academic Learning Outcomes
Credits: 0.0

This course is designed to provide students with access to the basic topics on modern world history beginning approximately 1400 AD. The course is based on four major themes: human interactions; hemispheric interactions; crisis, progress and change in the 20th century; and the challenges of the 21st century. This course is designed to facilitate alternate academic learning outcomes appropriate to the instructional needs of the student, as documented in the Individualized Education Program (IEP). This course is linked to the general education curriculum; however, the student will require a different scope and sequence, adapted and modified materials.

Textbook(s): TBA
THEATRE

Drama classes are fine arts and meet the fine arts requirement for graduation. They do not meet English requirements.

Drama 1
Course Code: 129003
Prerequisites: None
Credits: 1.0 Fine Art
Drama 1 is the introductory course in a three-course series designed to introduce and develop skills and experiences useful to students having an interest in and/or an aptitude for drama.

Textbook(s): The Stage and the School, ISBN 9780078616273

Drama 2
Course Code: 129103
Prerequisites: Drama 1 and teacher recommendation
Credits: 1.0 Fine Art
Drama 2 is the second course in a three-course series during which the students will experience techniques of oral interpretation, the nature of technical theater, and study theatre history to Elizabethan times.

Textbook(s): The Stage and the School, ISBN 9780078616273

Drama 3
Course Code: 129203; 129223 (2nd year elective)
Prerequisites: Drama 2 and teacher recommendation
Credits: 1.0 Fine Art; 1.0 Elective (2nd year)
Drama 3 is the last course in a three-course series designed to provide students with both literary features of drama and hands-on experiences with practices that help drama come alive on the stage.

Textbook(s): The Stage and the School, ISBN 9780078616273

VISUAL ARTS

Advanced Placement Studio Art 2D Design
Course Code: 613503
Prerequisites: Art 1, Art 2 or Departmental waiver
Credits: 1.0 Fine Art; Weighted
The Advanced Placement Studio Art Program enables highly motivated students to do college level work in studio art while still in high school. AP Studio Art students submit a portfolio of work for evaluation at the end of the school year. This rigorous program is intended for students seriously committed to studying art. Portfolios are evaluated on quality, concentration and breadth. All students will be expected to maintain a journal/sketchbook.

Textbook(s): The Visual Experience and Launching the Imagination, ISBN 9780871926272
**Advanced Placement Studio Art 3D**

**Course Code:** 613603  
**Prerequisites:** Art 1; Ceramics or Sculpture  
**Credits:** 1.0 Fine Art; Weighted

The Advanced Placement Studio Art Program enables highly motivated students to do college level work in studio art while still in high school. AP Studio Art students submit a portfolio of work for evaluation at the end of the school year. This rigorous program is intended for students seriously committed to studying art. Portfolios are evaluated on quality, concentration and breadth. All students will be expected to maintain a journal/sketchbook.

Textbook(s): *The Visual Experience* and *Launching the Imagination*, ISBN 9780871926272

**Advanced Placement Art History**

**Course Code:** 616903  
**Prerequisites:** Application and orientation session; 11th or 12th grade student  
**Credits:** 1.0 Fine Art; Weighted

The Advanced Placement Program in the History of Art is designed to provide the same benefits to secondary school students as are provided by an introductory college course in art history: an understanding and enjoyment of architecture, sculpture, painting, and other art forms within a historical and cultural context. In the course students learn to look at works of art with intelligence and sensitivity, examining the major forms of artistic expression of past cultures, as well as those of our own time and environment. Production experiences will be part of this course. Students who achieve this goal may receive advanced placement and/or credit at many colleges and universities. All students will be expected to maintain a journal/sketchbook.

Textbook(s): *Gardner’s Art through the Ages*, ISBN 9781439085790

**Art 1**

**Course Code:** 602103  
**Prerequisites:** High school student  
**Credits:** 1.0 Fine Art

Art 1 is designed as an entry-level course for the high school student. The curriculum provides a broad base of art experiences including: design, drawing, printmaking, painting, sculpting, lettering and crafts. Each art unit includes both a sequentially structured, hands-on experience, art vocabularies and a theoretical section that relates the cultural, historical, aesthetic significance, and critical analysis of the art form. The emphasis in each unit is on the development of fundamental concepts, technical and problem-solving skills. The course concludes with an introduction to careers in art. All students will be expected to maintain a journal/sketchbook.


**Art 2**

**Course Code:** 602203  
**Prerequisites:** Art 1  
**Credits:** 1.0 Fine Art

This course is designed for students who have successfully completed Art 1. The curriculum is designed with a broad base of art experiences; however the emphasis is on increasing development of the students’ art concepts and artistic skills. The art student is introduced to cultural, historical and aesthetic material that relates to the studio assignments. Further development of art vocabulary with increasing emphasis placed on a portfolio of work in design, drawing, print making, painting,
sculpture, graphic design and crafts. All students will be expected to maintain a journal/sketchbook.


**Art 3**

**Course Code:** 602303  
**Prerequisites:** Art 2  
**Credits:** 1.0 Fine Art  
This course is designed for the student who has successfully completed Art 2. The hands-on experience includes all the traditional areas of art such as design, drawing, painting, print making, sculpture, graphic design and crafts. The emphasis of the course is the development of a personal style of expression in the student's work. In addition, the student will examine more closely the work of individual artists that were instrumental in developing the art of his/her own culture as well as in-depth studies of the art of other cultures. As the art experience proceeds in each unit, the student will have the opportunity to learn about careers in art. Educational opportunities are explored in close cooperation with the guidance department. All students will be expected to maintain a journal/sketchbook.


**Art 4**

**Course Code:** 602403  
**Prerequisites:** Art 3  
**Credits:** 1.0 Fine Art  
This course is designed for students who have successfully completed Art 3 and who have a special interest in art. The students are expected to have a greater participation in determining their direction and/or area of concentration. The course closely coordinates the students' personal art style and their developing appreciation of broad cultural and historical influences in art. The emergence of personal expression through increased conceptual and skill development is stressed. Preparation for scholarships and college acceptance is provided in the preparation of a portfolio. All students will be expected to maintain a journal/sketchbook.


**Art Appreciation 1**

**Course Code:** 603100  
**Prerequisites:** None  
**Credits:** 0.5 Fine Art  
This semester course consists of studying the major approaches to understanding visual art: subject matter, materials, techniques, vocabulary and critical analysis. How the artists use these approaches to communicate will be emphasized. Works of art will be studied through the use of textbook, slide lectures, the Internet, and discussion. Students are expected to write about art, prepare oral presentations, critically discuss visual art products as well as create original work in the studio. All students will be expected to maintain a journal/sketchbook.

Art Appreciation 2
Course Code: 604100
Prerequisites: Art Appreciation 1
Credits: 0.5 Fine Art
This second semester course traces the history of visual arts in America from the Colonial period to the present. Painting, sculpture, graphics and architecture will be studied through a textbook, slide lectures, and the Internet. The students will be expected to write and discuss art, and major art movements. The students will also prepare oral presentations and critically analyze art. Students in the studio will create original work. Emphasis will be placed on the contribution of the artists in the growth and development of the United States. All students will be expected to maintain a journal/sketchbook.


Basic Design
Course Code: 612200
Prerequisites: None
Credits: 0.5 Fine Art
This semester course is intended for students who have had little art background. Most work in class will be flat work. This unit will stress such areas of concentration as design elements and principles in drawing, painting, and printing. Students will study the history of design. They will learn the fundamentals of critiquing artwork. All students will be expected to maintain a journal/sketchbook.


Dual Credit: Earning credit for ART 1010 Introduction to Art at Prince George's Community College makes a student eligible for 612210 Basic Design DE credit.

Basic Drawing and Painting
Course Code: 611600
Prerequisites: None
Credits: 0.5 Fine Art
This semester course is intended for students with little art background who would like to have some experiences with drawing, sketching, and painting. Master works of two-dimensional artists will be studied. All students will be expected to maintain a journal/sketchbook.


Basic Printmaking
Course Code: 613400
Prerequisites: None
Credits: 0.5 Fine Art
This semester course will allow the student to explore printing and stenciling as vehicles for creative self-expression. The course will incorporate lettering and layout and various commercial aspects of advertising art. The history of print making will be studied. Students will critique the work of master print makers. All students will be expected to maintain a journal/sketchbook.

Textbook(s): *Experience Printmaking*, ISBN 9780871929822
Basic Sculpture
Course Code: 611700
Prerequisites: None
Credits: 0.5 Fine Art
This semester course will emphasize the importance of craftsmanship in working with three-dimensional media. Clay, metal, wood, wax, stone, yarns, and fabrics may be molded, carved, woven, and constructed into many satisfying and useful articles. Emphasis will be placed on the utilitarian as well as the aesthetic qualities of three-dimensional art. The history of sculpture and vocabulary will be studied. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Beginning Sculpture. Davis Publication.

Ceramics 1
Course Code: 611503
Prerequisites: Art 1 or Basic Design; teacher approval
Credits: 1.0 Fine Art
In this year-long course, students will learn to make pottery and other clay forms using traditional and exploratory methods. Decorating techniques will be explored. Emphasis will be placed on developing proficiency in techniques, developing art vocabulary and handling of equipment. Students will be expected to produce original clay products. The influences of other cultures will be examined. Students will critique their own work and the work of significant traditional and contemporary ceramic artists. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Experiencing Clay. Davis Publication.

Ceramics 2
Course Code: 611803
Prerequisites: Ceramics 1
Credits: 1.0 Fine Art
In the year-long course, students will produce clay products using advanced skills and techniques used in Ceramics 1. Emphasis will be placed on ceramic design and skill in handling materials, tools, and equipment. Advanced skills and techniques will include mold formation and pouring. Emphasis will be on the creation of clay pieces with lids, handles, openings and other utilitarian and decorative devices. The influences of other cultures will be examined. Students will critique their own work and the work of significant traditional and contemporary ceramic artists. The emphasis on this course will be on ceramics as sculptural form. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Experiencing Clay. Davis Publication.

Computer Graphics/Graphic Design
Course Code: 619203
Prerequisites: Art 1 and teacher recommendation
Credits: 2.0 Fine Art
This course consists of traditional studio and computer laboratory experience. As an introduction to the basic components of graphic design, the course emphasizes visual communication and creative problem solving along with the integration of other disciplines. The student is given a structured introduction to a variety of graphic materials, instruments, vocabulary and method and presentation techniques. Development of skills in lettering, composition and layout is integrated into the assignments. The student develops primary skills associated with computer operation and explores the computer imaging systems as an artist’s tool. Career and cultural influences will be emphasized. Computer
typography, desktop publication, animation, sound integration and digitized imagery will be covered in the course. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Communicating Through Graphic Design, ISBN 9780871929884

**Computer Graphics 1**

*Course Code:* 619903  
*Prerequisites:* Teacher Permission or one of the following: Graphic Design, Art 1, or Basic Design  
*Credits:* 1.0 Fine Arts

This course is an introductory exploration of the creative potential, nature and use of the computer imaging system as an artist's tool. It will provide an opportunity for students to develop skills needed to create computer-generated images through their interaction with the software as well as various input and output devices. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Communicating Through Graphic Design, ISBN 9780871929884

**Computer Graphics 2**

*Course Code:* 619913  
*Prerequisites:* Art 1, Computer Graphics 1  
*Credits:* 1.0 Fine Arts

This course is an exploration of the creative potential, nature and use of computer imagining, typography, and layout and design programs as artists' tools. It will provide an opportunity for students to acquire and develop the skills needed to create various types of computer generated work using software, internet and various input and output devices. Students will be expected to acquire and develop the skills associated with operating and maintaining a computer. They will be expected to develop proficiency in their use of the hardware, software and accessories available to them in this course. Art History, Art Criticism, Aesthetics, and Art Production will be addressed for computer imaging, typography, layout and design in order to assure that students acquire knowledge and understanding of the visual and graphic arts and a foundation upon which to make sound aesthetic judgments. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Communicating Through Graphic Design, ISBN 9780871929884

**Computer Graphics 2**

*Course Code:* 619303  
*Prerequisites:* Basic Design, Art 1, Computer Graphics 1  
*Credits:* 2.0 Fine Arts

This course is an exploration of the creative potential, nature and use of computer imagining, typography, and layout and design programs as artists' tools. It will provide an opportunity for students to acquire and develop the skills needed to create various types of computer generated work using software, internet and various input and output devices. Students will be expected to acquire and develop the skills associated with operating and maintaining a computer. They will be expected to develop proficiency in their use of the hardware, software and accessories available to them in this course. Art History, Art Criticism, Aesthetics, and Art Production will be addressed for computer imaging, typography, layout and design in order to assure that students acquire knowledge and understanding of the visual and graphic arts and a foundation upon which to make sound aesthetic judgments. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Communicating Through Graphic Design, ISBN 9780871929884  

Dual Credit: Earning credit for ART 1570 Introduction to Computer Graphics at Prince George’s
Community College makes a student eligible for 619513 Computer Graphics 2 DE credit.

**Crafts 1**

*Course Code:* 601100  
*Prerequisites:* None  
*Credits:* 0.5 Fine Art

This introductory semester course deals with the aesthetics of craft design. It stresses the development of fundamental skills and the knowledge necessary to work intelligently and creatively with craft media. Students will be expected to learn appropriate art vocabulary. The area of study will be American crafts. Study of the historical heritage of the crafts produced is a part of the course. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Sprintzen, A. *Crafts.* Davis Publications

**Crafts 2**

*Course Code:* 601200  
*Prerequisites:* Crafts 1  
*Credits:* 0.5 Fine Art

The second semester of Crafts will continue with American crafts. The aesthetics of design and craftsmanship will be stressed in the development of the products produced. Some techniques and processes from Craft 1 will be repeated to enhance the crafts produced in this course. Study of the historical heritage of the American crafts will be an integral part of this course. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Sprintzen, A. *Crafts.* Davis Publications

**Digital Photography**

*Course Code:* 616333  
*Prerequisites:* Teacher approval  
*Credits:* 1.0 Fine Art

This course provides students with a basic understanding of digital photography as an art form. A digital camera and computer software replace the traditional darkroom and are used to capture and manipulate photographic images and to increase the student’s understanding of both traditional and contemporary photographic techniques. Photographic composition and the expression of meaning in personal artworks will be stressed. The students will create portfolios of their digital photographs that emulate both traditional and contemporary photographic processes and media.

Textbook(s): Focus on Photography, ISBN 9781615284764

**Drawing and Painting 1**

*Course Code:* 611103  
*Prerequisites:* Art 1 and teacher permission  
*Credits:* 1.0 Fine Art

This year-long course will provide opportunities for students to develop drawing and painting skills. A variety of materials and techniques will be used to produce compositions. Organization of compositions will be based on the Elements and Principles of Design. Students will be expected to produce original drawings and paintings and critique those works. Students will be expected to develop art vocabulary. The work of master artists will be discussed. All students will be expected to maintain a journal/sketchbook.

**Drawing and Painting 2**

Course Code: 611203  
Prerequisites: Drawing and Painting 1 and/or Teacher Permission  
Credits: 1.0 Fine Art  
This year-long course is for students who have completed Drawing and Painting 1. Students will continue to develop skills and vocabulary in drawing and painting techniques. All students will learn more advanced application of techniques. Emphasis will be placed on producing original artwork suitable for exhibits and portfolios. Organization of compositions will be based on the Elements and Principles of Design. Students will critique their work as well as the works of master artists. All students will be expected to maintain a journal/sketchbook.


**Introduction to Photography**

Course Code: 616403  
Prerequisites: Art 1 or Basic Design; teacher approval  
Credits: 1.0 Fine Art  
This course will introduce students to basic photography. The content will include the history and mechanics of photography as well as the aesthetics and cultural influences of photography. Teacher and student evaluation of work is an integral part of this course. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Focus on Photography, ISBN 9781615284764

**Photography 1**

Course Code: 618203  
Prerequisites: Intro to Photo; teacher approval  
Credits: 2.0 Fine Art  
This two-credit course is for those students interested in photography as an area of concentration in the visual arts. It is designed to provide students with advanced levels of knowledge of the photographic processes and techniques. In addition to developing their own style, students will develop advanced technical skills, understanding and application of photographic equipment and materials. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Focus on Photography, ISBN 9781615284764

**Photography 2**

Course Code: 618303  
Prerequisites: Photography 1  
Credits: 2.0 Fine Art  
This two-credit course is for those students interested in photography as an area of concentration in the visual arts. It is designed as an extension and refinement of the ideas, techniques and theories covered in the Introduction to Photography course. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Focus on Photography, ISBN 9781615284764
**Sculpture 1**

Course Code: 611303  
Prerequisites: Art 1 or Basic Design; teacher approval  
Credits: 1.0 Fine Art  
This year-long course will emphasize sculpture processes. Students will be expected to produce original sculpture forms using a variety of materials and techniques as well as develop art vocabulary. The importance of craftsmanship will be stressed. The works of master sculptors will be examined. Students will discuss and critique their work and the work of master sculptors. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Beginning Sculpture, ISBN: 9780871926296

**Sculpture 2**

Course Code: 611403  
Prerequisites: Sculpture 1 and Teacher Permission  
Credits: 1.0 Fine Art  
This year-long course is for students who have mastered the objectives and skills covered in Sculpture 1. Students will be encouraged to work individually on more advanced projects and to strengthen their ability to use the various sculpture methods. Emphasis will be placed on design and form. Students will be expected to produce original sculpture pieces. Self-evaluation will be stressed. Discussion and critiques of student work and sculptures of master artists is an integral part of this course. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Beginning Sculpture, ISBN: 9780871926296

**Seminar for Advanced Placement Studio Art**

Course Code: 613613  
Prerequisites: Art 1, Art 2 or Departmental waiver  
Credits: 1.0 Fine Art  
Advanced Placement Studio Art Seminar is designed to provide additional skill based instruction for the rigors of an Advanced Placement studio art course. Students will receive intensive assistance in the concepts and skills required for the AP Portfolio. This course prepares students who require additional studio practice, guidance, and experiences beyond those available in their standard AP courses preparing them for success on the AP Portfolio exam.

Textbook(s): The Visual Experience and Launching the Imagination.

**Television Production 1**

Course Code: 760113 single period  
760313 double period  
Prerequisites: None  
Credits: 1.0 or 2.0 Elective  
This introductory course offers the student the opportunity to assist in the direction and production of television programs. This course is an introduction to television. It will acquaint students with the techniques and problems of television production through application of theory and methods. The course will survey all aspects of television production from camera operation to directing. The students will cover the basic elements needed for a production including script writing. Practical application of these theories is provided through the student productions in the television studio. All students will be expected to maintain a journal/sketchbook.

**Television Production 2**

*Course Code:* 760213 single period  
760413 double period  

*Prerequisites:* Television Production 1  

*Credits:* 1.0 or 2.0 Elective  

Students, who have successfully completed Television Production 1, may enroll in this yearlong course. In Television Production 2, students will explore the aspects of producing, script writing, directing, reporting and editing for the production of various genres of programming. Utilizing studio production and field production techniques, students will learn to work independently, as well as cooperatively to complete the production process. Students will plan the total operational and management process for actual television programs, as well as participate in and take responsibility for various aspects of the finished program, such as set design, camera, audio, video switching, lighting, graphics and editing. Students will be assigned duties throughout the production process, thus exposing them to the rigors of creating television content. Upon successful completion of this course, students will understand how a production is conceived, produced, and executed.

Dual Credit: Earning credit for TRF 1330 Television Production I at Prince George’s Community College makes a student eligible for 760123 Television Production 1 DE credit.

**Television Production 3**

*Course Code:* 760513  

*Prerequisites:* Television Production 2  

*Credits:* 1.0 Elective  

In this course students work projects such as the senior video yearbook. All students will be expected to maintain a journal/sketchbook. Students will produce a demo DVD which is a portfolio of all of their best work. These are shorts/videos during their three years in television production. In addition, this demo DVD should include all of the pertinent information about the student (such as a featurette does in a film). This demo DVD is essential when applying to the top television and film schools in the nation.

Textbook(s): TBA

**World Art: Pre Diploma Program**

*Course Code:* 614213  

*Prerequisites:* International Baccalaureate student  

*Credits:* 1.0 Fine Arts  

AP Art History is a rigorous, year-long course. The course covers art history in chronological order from Paleolithic through Post-Modernism. Students will study art within its historical, cultural context in order to learn how art encodes social ideologies. Students will learn to understand works of art through visual analysis in order to evaluate the artistic merit of the work while developing critical thinking skills. Students will learn canons of western and non-western images and the basic problems and flux of the canons in order to develop a better appreciation of the art. Students will learn to appreciate the aesthetics of all art forms within global societies in order to make contextual connections to all types of human experiences.

Textbook(s): TBA
**Visual and Performing Arts (VPA): Dance**

**Ballet 1**

**Course Code:** 707003  
**Prerequisites:** Audition into the VPA Dance Program (9th & 10th Graders)  
**Credits:** 1.0 Fine Arts

This is an introduction to and exploration of the oral, physical, visual and written aesthetics of Classical Ballet, with emphasis on its formal properties as well as its artistic and cultural significance for contemporary societies. The courses examine critical themes and issues found in today’s dance environments, including but not limited to constructions and representations of development, gender, identity, modernity, race and tradition. The courses engage a variety of stylings and authors in their examination of the ways in which today’s dance students see themselves, their environments, and their past, present and future. Students will analyze, discuss, read, perform, summarize and write about Classical Ballet according to ability level. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Ballet vocabulary assessments.


**Ballet 2**

**Course Code:** 707103  
**Prerequisites:** Successful Completion of Ballet 1 and Teacher Recommendation  
**Credits:** 1.0 Fine Arts

This course is a continuation of the study of Classical Ballet technique (Vaganova; Cecchetti; RAD; or Bournville-Dance Teacher preference): emphasis on exploring and embodying a particular world view; including intermediate level enchainments; shifting weight physically and musically connecting movement sequences; and sequencing combinations designed to develop both strength and flexibility. Topics include Intermediate skills at the Ballet barre; and center floor work including adage movements; petit allegro; pirouettes; grand allegro and traveling turns. Students will perform in this style in the winter and spring performances. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Ballet vocabulary assessments.


**Ballet 3**

**Course Code:** 707203  
**Prerequisite:** Successful Completion of Ballet 2 and Teacher Recommendation  
**Credits:** 1.0 Fine Arts

This course is a continuation of the study of classical ballet technique (Vaganova; Cecchetti; RAD; or Bournville-Dance Teacher Preference): Intermediate/advanced level enchainments; standard classical divertissement and style distinctions including progression of technical complexities and approaches to Contemporary Ballet. At this level students will develop greater control and strength.
The level is more advanced in all facets of the class. More Ballet vocabulary is required. Topics include Intermediate/Advanced skills at the Ballet barre; center; adage; petit allegro; grand allegro; pirotettes and turns traveling. Students perform in this style in the winter and spring performances. Formal in class performance assessments and formal stage performances will be required. There will also be written and oral Ballet vocabulary assessments.


**Ballet 4**

*Course Code:* 707303  
*Prerequisite:* Successful Completion of Ballet 3 and Teacher Recommendation  
*Credits:* 1.0 Fine Arts

Building on the techniques learned in Level 3; this course emphasizes mastery of various Ballet skills including, but not limited to extension; strength of ballon; and phrasing and artistry. Dancers will be introduced to pre-Pointe Ballet skills at the Ballet Barre. Topics include Advanced skills at the Ballet barre; center; adage; petit allegro; grand allegro and multiple turns en dehor and en dedan. Vocabulary work continues. Students perform in this style in the winter and spring performances. Formal in class performance assessments and formal stage performances will be required. There will also be written and oral Ballet vocabulary assessments.


**Dance Composition 1**

*Course Code:* 707813  
*Prerequisites:* Level 1 & Level 2 CVPA Dance courses  
*Credits:* 1.0 Fine Arts

This course will introduce students to both the exploration of the choreographic process and the basic tools used in choreographing a composition. Students experiment with movement as soloists and in groups. Students will also learn to execute the fundamentals of choreography through improvisations and assignments that explore space, time and force. They will evaluate movement studies while observing choreography and learn how to articulate responses through class discussions and journal writing. Student choreographic works will be presented in a formal Student Choreography Showcase setting.


**Dance Composition 2**

*Course Code:* 707823  
*Prerequisites:* Level 1 & Level 2 CVPA Dance courses & CVPA Dance Composition 1  
*Credits:* 1.0 Fine Arts

This course continues the exploration of the choreographic process. Students will learn to dissect and create more complex works through improvisation, imagery, movement experimentation and class
assignments. Working outside the box and finding a personal creative style is encouraged. Students will work on solos, duets, trios, and collaborate as a large group. Students will also continue to critique works in progress and write daily about their choreographic process in their journals. Student choreographic works will be presented in a formal Student Choreography Showcase setting.


**Dance Production**

*COURSE CODE: 708003*

*PREREQUISITES: Level 3 Dance*

*CREDITS: 1.0 Fine Arts*

In this course students will focus on theatre crafts and techniques involved in dance production, including lighting, sound, set and costume design and construction, stage management, videotaping, and all financial aspects. Production components beyond the regular school day are required.

Textbook(s): *Dance Anatomy*, ISBN 9780736081931; *Resources: K-12 Dance Curriculum Framework; State Fine Arts Curriculum*

**Dance Production**

*COURSE CODE: 708000*

*PREREQUISITES: N/A*

*CREDITS: 0.5 Fine Art*

In this course students will focus on theatre crafts and techniques involved in dance production, including lighting, sound, set and costume design and construction, stage management, videotaping, and all financial aspects. Production components beyond the regular school day are required.


**World Dance**

*COURSE CODE: 707613*

*PREREQUISITES: Level 2 Dance*

*CREDITS: 1.0 Fine Arts*

In this course students will develop an understanding of world cultures through studying traditional dances and music of a selected culture. Students perform in this style in the winter and spring performances.

**Jazz 1**

**Course Code:** 706513  
**Prerequisites:** Audition into the VPA Dance Program (9th & 10 graders)  
**Credits:** 1.0 Fine Arts  
This course is an introduction to Jazz Dance. Course study will include various styles of Jazz including, but not limited to: Luigi Technique, stylized Fosse movements, Musical Theatre, Lyrical, Afro, Hip Hop, Contemporary and Broadway Jazz. Emphasis is placed on development of correct Jazz techniques through codified warm-ups, center floor strengthening, across the floor patterns and choreography. Students will also study/research Jazz Dance History and Jazz Dance Terminology. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Jazz vocabulary assessments.


**Jazz 2**

**Course Code:** 706523  
**Prerequisites:** Successful completion of Jazz Dance 1  
**Credits:** 1.0 Fine Arts  
This course is a continuation of the Jazz Dance. Students will expand their technical skills with more challenging and complex floor exercises, floor patterns, and choreography. Core foundations will include: Floor Work for Strength and Flexibility, Center Work for Balance and Alignment, and Locomotor Work for picking up steps and fast footwork. Course study will be at the intermediate level and will continue to include Luigi Technique, stylized Fosse movements, Musical Theatre, Lyrical, Afro, Hip Hop and Broadway Jazz styles. Students will also continue a more in depth study/research of Jazz Dance History and Jazz Dance Terminology. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Jazz vocabulary assessments.


**Jazz/Tap 1**

**Course Code:** 706503  
**Prerequisites:** Acceptance into the CVPA Dance Program  
**Credits:** 1.0 Fine Arts  
The Jazz/Tap 1 class is designated for those students who have auditioned and been accepted into the CVPA Dance program. Students will explore basic jazz and tap dance technique and skills.

Jazz/Tap 2
Course Code: 706603
Prerequisites: Jazz/Tap 1
Credits: 1.0 Fine Arts
The Jazz/Tap 2 class is designated for those students who have auditioned and been accepted into the CVPA Dance program. Students in the Jazz/Tap 2 class have successfully completed Jazz/Tap 1. Students will refine jazz and tap skills from Jazz/Tap 1, explore more complex movements, and rhythmic patterns.


Modern Dance 1
Course Code: 706003
Prerequisites: Audition into the VPA Dance Program (9th & 10 graders)
Credits: 1.0 Fine Arts
This course provides an introduction to the elementary aspects of modern dance techniques: level change, weight shift, dynamic alignment, breath support and expression, and application of modern dance. Students will work backstage for the winter production and may perform in the spring concert. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Modern vocabulary assessments.


Modern Dance 2
Course Code: 706103
Prerequisites: Modern 1
Credits: 1.0 Fine Arts
These courses build on the fundamentals of modern dance practices introduced in Level 1 Modern Dance. Emphasis is on the exploration of techniques developed by Lester Horton & Martha Graham. Learning includes expanded movement vocabulary and sequences in continuing complexity - kinesthetically, spatially, and musically. There is also great emphasis on the development of this genre through the study of its history via assigned readings, research, and viewings of various professional modern dancers. Students prepare to perform in these styles in the winter and/or spring performances. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Modern vocabulary assessments.

Modern Dance 3
Course Code: 706203
Prerequisites: Modern 1, Modern 2
Credits: 1.0 Fine Arts

These courses build on the fundamentals of modern dance practices introduced in Level 1 Modern Dance. Emphasis is on the exploration of techniques developed by Lester Horton & Martha Graham. Learning includes expanded movement vocabulary and sequences in continuing complexity - kinesthetically, spatially, and musically. There is also great emphasis on the development of this genre through the study of its history via assigned readings, research, and viewings of various professional modern dancers. Students prepare to perform in these styles in the winter and/or spring performances. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Modern vocabulary assessments.


Modern Dance 4
Course Code: 706303
Prerequisites: Modern 3
Credits: 1.0 Fine Arts

These courses build on the fundamentals of modern dance practices introduced in Level 1, 2 and 3 Modern Dance. There will be an emphasis on a fusion of various Modern technique styles including, but not limited to: Graham, Horton, Dunham, Limon, Release technique, etc. Learning includes expanded movement vocabulary and sequences in continuing complexity - kinesthetically, spatially, and musically. There is also great emphasis on the development of this genre through the study of its history via assigned readings, research, and viewings of various professional modern dancers. Students prepare to perform in these styles in the winter and/or spring performances. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Modern vocabulary assessments.


Pointe Ballet 1
Course Code: 707413
Prerequisites: Successful Completion of Ballet 2 and Teacher Recommendation
Credits: 1.0 Fine Arts

In this course students will focus on basic pointe (toe) work essential to students whose interest is in total comprehension of the elements necessary to the performance of classical ballet. This course will include work to strengthen the ankles and insteps and acclimation of body weight and placement. Students perform in this style in the winter and/or spring performances.

**Pointe Ballet 2**

*Course Code: 707423*

*Prerequisites: Pre-Pointe experience, Permission of instructor*

*Credits: 1.0 Fine Arts*

This course is a more in-depth study of Pointe Ballet with emphasis on tempi, allegro combinations, enchainment au milieu and barre supported adage. Students perform in this style in the winter and/or spring performances.

Textbook(s): TBA

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**Repertory Dance**

*Course Code: 706903*

*Prerequisites: Audition/Teacher Recommendation*

*Credits: 1.0 Fine Arts*

This course is an introduction to group dance experiences through rehearsal, performance, dance technique training and technical theatre practice. The students will be involved in creating and reviving diverse repertory of a chosen choreographer(s). Students perform in this style in the winter and/or spring performances.

Textbook(s): None

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**Dance Repertory 2**

*Course Code: 706913*

*Prerequisites: Audition/Teacher Recommendation*

*Credits: 1.0 Fine Arts*

This course emphasizes increased technical proficiency in dance forms progressing toward focus on dance as a performing art and means of communication. Students continue to increase knowledge of dance history, theory, choreography and criticism. The student will demonstrate the ability to work as an ensemble to develop respectful and cooperative personal skills.

Textbook(s): TBA

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**Dance Repertory 3**

*Course Code: 706923*

*Prerequisites: Audition/Teacher Recommendation*

*Credits: 1.0 Fine Arts*

Dance Repertory III classes have a performance emphasis and goal-based with students involved in research, choreography, and every aspect of dance production. Technical proficiency, academic knowledge, continued improvement and growth in dance, and public dance performances are expected. The student will demonstrate the ability to work as an ensemble to develop respectful and cooperative personal skills.

Textbook(s): TBA

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**Dance Repertory 4**

*Course Code: 706933*

*Prerequisites: Audition/Teacher Recommendation*

*Credits: 1.0 Fine Arts*

Dance students will extend their knowledge of the art form by participating in choreographed dance composition. The dance students will formulate and use multiple sets of criteria to critique personal
performances, improvised and choreographed, and the performances of others composing and choreographing dance pieces. The student will demonstrate the ability to work as an ensemble to develop respectful and cooperative personal skills.

Textbook(s): TBA

**Visual and Performing Arts (VPA):**

**Music**

**Advanced Band**

*Course Code:* 636233, 636243  
*Prerequisites:* Basic Band, Teacher approval  
*Credits:* 1.0 Fine Arts  
This course emphasizes a high standard of musical excellence in the preparation and performance of band literature. The band provides an opportunity for instrumentalists to continue their instruction and to gain performing experiences on a daily basis. Small group and ensemble instruction are scheduled. Topics include medieval, renaissance, baroque, classical, romantic, and twentieth century.

Textbook(s): *Foundations for a Superior Performance*, Belwin Intermediate

**Advanced Orchestra**

*Course Code:* 641233, 641243  
*Prerequisites:* VPA Application and Audition  
*Credits:* 1.0 Fine Arts  
This course emphasizes a high standard of musical excellence in the preparation and performance of orchestral literature. The orchestra provides an opportunity for string instrumentalists to continue their instruction and to gain performing experiences on a daily basis. Small groups or ensemble instruction is scheduled. Topics include medieval, renaissance, baroque, classical, romantic, and twentieth century.

Textbook(s): *Advanced Techniques for strings; Essentials for Strings; Essential Elements Book IV*

**Advanced Chorus - Chamber**

*Course Code:* 632123, 632133, 632143  
*Prerequisites:* Audition and/or teacher recommendation  
*Credits:* 1.0 Fine Arts  
This full-year course offers instruction in advanced vocal techniques, score reading, study and performance of mixed chorus literature, and four-part advanced and college-level choral literature. Students have out-of-school performances, which may require after-school rehearsals. Topics include medieval, renaissance, baroque, classical, romantic, and twentieth century.

Textbook(s): TBA

**Applied Music Band**

*Course Code:* 626133, 646103, 646113, 646123, 646133, 646203, 646213, 646223, 646233  
*Prerequisites:* VPA Application and Audition  
*Credits:* 1.0 Fine Arts  
Students are given private lesson instruction in orchestra or band instruments. They receive weekly
one on one instruction. This course will assist students to develop, through personal attention, proper tone production techniques such as embouchure, posture, playing position, breath control, bow control, and left hand control. Students develop, through personal attention, proper performing techniques such as articulation, scales, arpeggios, sight reading, vibrato, and fingering/positions. Students develop, through personal attention, musicianship techniques such as practice habits, phrasing, style and period, and solo and ensemble playing. Students will demonstrate performance proficiency for their applied teacher on a weekly basis. Performance at the Prince George’s County Solo and Ensemble is mandatory. A jury evaluation will be required at the end of each semester.

Textbook(s): TBA

**Applied Music Piano**

*Course Code:* 646203, 646213, 646223, 646233

*Prerequisites:* VPA Application and Audition

*Credits:* 1.0 Fine Arts

This full-year course offers each student individualized one-on-one instruction in the music instrument of their major. Through this course students create a solo repertoire that increases in quantity and rigor each year. No specific text is issued for this course. Instead students work from individual music books suitable to their instruments and playing ability.

Textbook(s): None

**Applied Music Strings**

*Course Code:* 646303, 646313, 646323, 646333

*Prerequisites:* VPA Application and Audition

*Credits:* 1.0 Fine Arts

Students are given private lesson instruction in orchestra or band instruments. They receive weekly one on one instruction. This course will assist students to develop, through personal attention, proper tone production techniques such as embouchure, posture, playing position, breath control, bow control, and left hand control. Students develop, through personal attention, proper performing techniques such as articulation, scales, arpeggios, sight reading, vibrato, and fingering/positions. Students develop, through personal attention, musicianship techniques such as practice habits, phrasing, style and period, and solo and ensemble playing. Students will demonstrate performance proficiency for their applied teacher on a weekly basis. Performance at the Prince George’s County Solo and Ensemble is mandatory. A jury evaluation will be required at the end of each semester.

Textbook(s): TBA

**Special Instrumental Ensemble**

*Course Code:* 641303, 641313

*Prerequisites:* Teacher approval, concurrent enrollment in Intermediate/Advanced Band/Orchestra

*Credits:* 1.0 Fine Arts

This Chamber Orchestra is designed for instrumental music students desiring to enhance their musical experience through the study and performance of literature for the smaller instrumental ensemble. Topics include medieval, renaissance, baroque, classical, romantic, and twentieth century.

Textbook(s): TBA
**Concert Chorus**

**Course Code:** 646803, 646813, 646823, 646833  
**Prerequisites:** Previous choral experience or Teacher approval  
**Credits:** 1.0 Fine Arts  
This full-year course offers instruction in intermediate vocal techniques, score reading, study and performance of mixed chorus literature and four-part medium and advanced choral literature. This group has out-of-school performances, which may require after-school rehearsals. Topics include medieval, renaissance, baroque, Classical, romantic, and twentieth century.

Textbook(s): TBA

**Jazz Ensemble**

**Course Code:** 647203  
**Prerequisites:** Concurrent enrollment in Advanced, Intermediate, or Basic Band or Orchestra; Teacher approval  
**Credits:** 1.0 Fine Arts  
This full-year course offers instruction on advanced instrumental jazz technique, score reading, and study and performance of classic and modern jazz. This group has out of school performances, which may require after school rehearsals.

Textbook(s): TBA

**Piano Theory I**

**Course Code:** 646003  
**Prerequisites:** None  
**Credits:** 1.0 Fine Arts  
This full-year course offers students instruction in the fundamentals of music theory including basic skills in notation, keyboard, aural dictation, sight singing, simple melodic construction, harmony and computer aided composition. Topics include basic notation, key signatures, tetra chords, scales, intervals, acoustics and expression marks, triads, and melodic writing.

Textbook(s): Music Theory, G. Thaddeus Jones; Anthology of Musical Forms, Leon Stein; Master Theory, Peters and Yoder; Melodia, Cole & Lewis; Harvard Dictionary of Music; Musicianship for older beginners, Arlis & Schukman, Carl Fischer; Hannon Studies Vol. 1, Hanon/Schirmer; Introduction to sight singing, Arlis & Schukman, Carl Fischer; Teaching Choral Sight Reading, Boyd/Parker; Willis Keyboard and Reference Chart, Willis Music Co.; Rhythm Drills; Favorite Classical Melodies, Bastien/Kjos; First Piano Repertoire, Bastien/Kjos; From Purcell to Mozart, T. Presser; Intermediate Theory Vol. 1,2,&3, James Bastien/Kjos; The Music Arts, David Schanke, Music Arts Publishing Co.; The Independent Singer, Richard Edstrom, Curtis Press; Introduction to Musical Notation, EVA; Elements of Music, EVA

**Piano Theory II**

**Course Code:** 647303  
**Prerequisites:** Piano Theory I  
**Credits:** 1.0 Fine Arts  
This full-year course offers continuing instruction in the areas of written theory, keyboard, sight singing, aural dictation and computer assisted composition as well as continued development in scales, intervals triads melody writing, and four-part harmony. Course topics include majors scales, minor scales, intervals, transposition, triads, melodic cadences, harmonic cadences, and four-part harmony.

**Piano Theory III**

**Course Code:** 647403  
**Prerequisites:** Theory I, Theory II or teacher recommendation  
**Credits:** 1.0 Fine Arts

This full-year course offers continuing instruction in the areas of written theory, Keyboard, sight singing, aural dictation, and computer, including work in tonality, forms of melody writing, principles of four-part writing, non-harmonic tones, harmonic cadences and composition. Topics include Melodia Parts 1 and 2, tonality and key feeling, melody writing with modes, part writing, harmonization, composition, and dictation.

Advanced Placement Music Theory

Course Code: 647603
Prerequisites: Application and orientation session; Piano Theory IV or equivalent knowledge
Credits: 1.0 Fine Art

This full year course is designed for the experienced piano student who wishes to develop greater technical ability, good independent practice skills and written theory. Additionally, sight singing, aural dictation and computer applications will enhance instruction. Topics may include seventh chords, modulation, secondary dominate, and classical musical form and style. Students that will be attending college as Music majors are encouraged to take this course.

Textbook(s): May include Anthology of Musical Forms, Leon Stein; Master Theory, Peters and Yoder Melodia, Cole & Lewis; Harvard Dictionary of Music; Musicianship for Older Beginners, Arlis&Schukman; Carl Fischer; Hannon Studies Vol. 1, Hanon, Schirmer; Introduction to Sight Singing, Arlis&Schukman; Carl Fischer; Teaching Choral Sight Reading, Boyd: Parker; Willis Keyboard and Reference Chart, Willis Music.Co; Rhythm Drills; Favorite Classical Melodies, Bastien/Kjos; First Piano Repertoire, Bastien/Kjos; From Purcell to Mozart, T. Presser; Intermediate Theory Vol. 1, 2,& 3, James Bastien/ Kjos; The Music Arts, David Schanke, Music Arts Publishing Co.; The Independent Singer, Richard Edstrom, Curtis Press; Introduction to Musical Notation, EVA; Elements of Music, EVA; Music Theory, Thaddeus Jones; Fifty Two Part Sight Reading Exercises, Watson Crescendo; Music for Sight Singing, 2nd edition, Robert W. Ottman; The Independent Singer, Richard Edstrom, Curtis Press and others as determined by student ability.

Visual and Performing Arts (VPA):

Media Art

Depending on staff and facilities other high schools may offer these courses for 1 or 2 elective credits.

Television Production 1

Course Code: 760113 single period
760313 double period
Prerequisites: None
Credits: 1.0 or 2.0 Elective

This introductory course offers the student the opportunity to assist in the direction and production of television programs. This course is an introduction to television. It will acquaint students with the techniques and problems of television production through application of theory and methods. The course will survey all aspects of television production from camera operation to directing. The students will cover the basic elements needed for a production including script writing. Practical application of these theories is provided through the student productions in the television studio. All students will be expected to maintain a journal/sketchbook.

Textbook(s): Television Production Handbook, ISBN 9780495898849
**Television Production 2**

*Course Code:* 760213 single period  
760413 double period  

*Prerequisites:* Television Production 1  

*Credits:* 1.0 or 2.0 Elective  

Students, who have successfully completed Television Production 1, may enroll in this yearlong course. In Television Production 2, students will explore the aspects of producing, scriptwriting, directing, reporting and editing for the production of various genres of programming. Utilizing studio production and field production techniques, students will learn to work independently, as well as cooperatively to complete the production process. Students will plan the total operational and management process for actual television programs, as well as participate in and take responsibility for various aspects of the finished program, such as set design, camera, audio, video switching, lighting, graphics and editing. Students will be assigned duties throughout the production process, thus exposing them to the rigors of creating television content. Upon successful completion of this course, students will understand how a production is conceived, produced, and executed.  


**Television Production 3**

*Course Code:* 760513  

*Prerequisites:* Television Production 2  

*Credits:* 1.0 Elective  

In this course students work projects such as the senior video yearbook. All students will be expected to maintain a journal/sketchbook. Students will produce a demo DVD which is a portfolio of all of their best work. These are shorts/videos during their three years in television production. In addition, this demo DVD should include all of the pertinent information about the student (such as a featurette does in a film). This demo DVD is essential when applying to the top television and film schools in the nation.  

Textbook(s): TBA

**Visual and Performing Arts (VPA): Theatre**

**Acting Studio 1**

*Course Code:* 116003  

*Prerequisites:* VPA Application and Audition  

*Credits:* 2.0 Fine Arts  

This level 1 course is designed as a synthesis of information learned through reading, lecture, exploration, writing, oral presentation, and practical application of acting concepts and techniques. Course topics include concentration, pantomime, mime, improvisation, stage movement, vocal development, character development, studio rehearsal and performance, and dramatic/comic acting.  

Textbook(s): *The Dynamics of Acting*, Joan Snyder/Michael P. Drumsta; *Playing an Introduction to Acting*, Paul Kuritz; *Acting is Believing; Theatre Preparation and Performance*; and The Wadsworth Anthology of Drama
**Acting Studio 2**

*Course Code:* 116703  
*Prerequisites:* Acting Studio 1  
*Credits:* 2.0 Fine Arts

This level 2 course continues the development of the acting skills introduced in Acting Studio 1. Students continue their development by exploring new concepts and ideas. Multicultural aspects will be emphasized through the performance and study of the works of international playwrights. Topics include advanced oral interpretation, auditioning techniques, children’s theatre, musical theatre, and twentieth century styles of acting.

Textbook(s): *The Dynamics of Acting*, Joan Snyder/Michael P. Drumsta; *Playing an Introduction to Acting*, Paul Kuritz; *Acting is Believing*; *Theatre Preparation and Performance*; and *The Wadsworth Anthology of Drama*

**Introduction to Theatre Production**

*Course Code:* 116103  
*Prerequisites:* VPA Application and Audition  
*Credits:* 1.0 Fine Arts

This Theatre for the Visual and Performing Arts course for 9th graders or Level 1 is designed as a synthesis of information learned through reading, lecture, writing, oral presentation, and practical application of stage principles. Course topics include technical development, scenic construction, introduction to scenic design, stage practicum, lighting, costuming, and stage management. Students use drawing boards, t-squares, and architecture scales.

Textbook(s): *Theatre Preparation and Performance* and *The Wadsworth Anthology of Drama*

**Performance Styles**

*Course Code:* 115203  
*Prerequisites:* Acting Studio 1, Acting Studio 2  
*Credits:* 2.0 Fine Arts

The purpose of this grade 11 course is to expose students to skills needed to perform those styles of theatre most often encountered by the developing actor. Course topics include ensemble acting, soliloquy acting, classical acting in the Greek tradition, physical comedic timing, restoration comedy in performance, and acting Shakespeare.

Textbook(s): *The Dynamics of Acting* and *The Wadsworth Anthology of Drama*

**Play Writing/Directing**

*Course Code:* 117003  
*Prerequisites:* Special Topics in Theatre  
*Credits:* 2.0 Elective

This course is designed to enable fourth-year theatre students to examine closely the principles and practices of play writing and directing. Practical application of learned techniques will be an outcome of the course through the utilization of underclassmen in student directed projects. Topics include review of play writing principles, the successful one-act, scripting one-act plays, the director’s function, director’s organization, and production of student scripted plays.

Textbook(s): *Fundamentals of Play Directing; Play Directing: Analysis, Communication, and Style; The Wadsworth Anthology of Drama; and Young Playwrights 101*
**Repertory Acting**

*Course Code: 116403*

*Prerequisites: Performance Styles or approval of Theatre Department Chairperson*

*Credits: 2.0 Elective*

This course is designed to allow fourth year theatre majors to apply all learned techniques and skills garnered in their previous years of instruction. The course consists of concentrations each nine week period on the production of a different style of theatre intended for public performance in a studio setting. Topics include one acts, musical theatre performance, performing the classics, performing the avant-garde, and oral reading of teacher-selected scripts.

Textbook(s): The Wadsworth Anthology of Drama

**Special Theatre Topics**

*Course Code: 115103*

*Prerequisites: VPA student*

*Credits: 1.0 Fine Arts*

The purpose of Special Theatre Topics is to examine and explore in depth specific units of study supplemental to theatre. Topics include play writing, stage dialects, stage combat, musical theatre, acting for the camera, and dramatic criticism. Supplementary materials include gymnastic mats, practice swords/dowels, and stage dialect recordings (Japanese, New York, American Southern, Standard English, Cockney, Irish, Scottish, French, Italian, German, Russian).

Textbook(s): The Wadsworth Anthology of Drama

**Theatre Design**

*Course Code: 115003*

*Prerequisites: Introduction to Theatre Production*

*Credits: 1.0 Elective*

This course exposes students to the materials and design methods used by professional theatre designers. Students gain experience working with drafting materials and apply these techniques to design concepts of their own development. Topics include major design styles, mechanical equipment and materials, mechanical drawing conventions and drafting views, color theory, scale model building, advanced stage lighting, and costume design and rendering. Materials include drawing boards, t-squares, and architectural scales.

Textbook(s): *Graphic for the Performing Arts*, Harvey Sweet, Allyn and Bacon, Inc.

**Theatre Survey**

*Course Code: 116603*

*Prerequisites: Acting Studio I; Intro to Theatre Production*

*Credits: 1.0 Fine Arts*

This level 2 course is designed to explore the structural developments of the literature of theatre in play manuscripts from Greek to modern times. Topics include early theatre (Greek, Medieval, Renaissance, Shakespearean and Neo-Classic), restoration to early realism (Scandinavian, European, American), and modern drama.

Textbook(s): *Types of Drama: Plays and Contexts* and *The Wadsworth Anthology of Drama*
Visual and Performing Arts (VPA): Visual Arts

Advanced Placement Studio Art - Drawing Portfolio
Course Code: 613203
Prerequisite: Art 1, Art 2 or Departmental waiver
Credits: 1.0 Fine Art

AP Drawing is designed to address a very broad interpretation of drawing issues and media. Light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth are drawing issues that can be addressed through a variety of means, which could include painting, print making, or mixed media. Abstract and observational works may demonstrate drawing competence. The range of marks used to make drawings, the arrangement of those marks, and the materials used to make the marks are endless. In this course students are required to strike a balance between creative interpretations of teacher-guided drawing assignments and personal imagery while simultaneously developing a strong body of work that communicates a cohesive vision.

Textbook(s): *The Visual Experience* and *Launching the Imagination*

Art History
Course Code: 616803
Prerequisite: Completion of Level Year 1
Credits: 1.0 Fine Arts

This course chronologically surveys the history of Western art, including the influences of other cultures. The first semester includes the study of visual arts from the Stone Age to the Renaissance. In the second semester, students study the period from the Renaissance to the present. Course topics include: 1) an introduction to the elements and principles of art, including presentation and practice of appropriate vocabulary; 2) introduction to the nature of art; 3) a survey of materials and techniques used in the production of art, relating particular styles to time, place and space; 4) identification of extraordinary elements in art over time which have digressed from, confronted, and transcended traditional artistic norms; 5) an assessment of how the artist transforms actual and imaginative elements into a unique representation; 6) identification and analysis of transcendent themes in art; and 7) discussion of what art implies about reality. The content of this course is presented through slide presentations and museum visits. Emphasis will be placed on critique and the development of critical thinking skills and verbal expression of concepts.

Textbook(s): *Discovering Art History, Art in Focus, Janson’s History of Art, Stokstad’s Art History, Gardner’s Art Through the Ages*

Commercial Illustration 1
Course Code: 619003
Prerequisite: Introduction to Drawing
Credits: 2.0 Fine Arts

This course will involve the development of drawing and painting skills with emphasis on commercial application, pictorial and graphic illustration, and cartooning. Students will examine historical and contemporary approaches to illustration. Course topics include: 1) a survey of materials and techniques used in commercial illustration; 2) an exploration of traditional subject matter (figure, portrait, still life and landscape) as it applies to commercial illustration; 3) a broad examination of illustration, application and client relationship; 4) an in-depth study of various media that may be used for specific communications results; 5) a working study of composition as it applies to the relationship between...
image and typography (the pictures and the words) in achieving effective communications; and 6) a conscious development of a personal style in communicating ideas through visual images. Originality and mastery of media will be stressed as students work toward the development of a personal style.

Textbook(s): Janson’s History of Art, Stokstad’s Art History, Gardner’s Art Through the Ages

**Commercial Illustration 2**

**Course Code:** 619103  
**Prerequisite:** Commercial Illustration 1  
**Credits:** 2.0 Fine Arts

This advanced course concentrates on the development of a highly articulated personal style in commercial drawing and painting. The student will be encouraged to fine-tune personal perception and refine skills in using materials and techniques. The finished product will be emphasized. Course topics include 1) a survey of materials and techniques used in commercial illustration; 2) an exploration of traditional subject matter (figure, portrait, still life and landscape) as it applies to commercial illustration; 3) a broad examination of illustration, application and client relationship; 4) an in-depth study of various media that may be used for specific communications results; 5) a working study of composition as it applies to the relationship between image and typography (the pictures and the words) in achieving effective communications; and 6) a conscious development of a personal style in communicating ideas through visual images. The production of a high quality professional portfolio will be required of each student.

Textbook(s): Janson’s History of Art, Stokstad’s Art History, Gardner’s Art Through the Ages

**Advanced Computer Graphics VPA**

**Course Code:** 619703  
**Prerequisites:** Computer Graphics 1  
**Credits:** 2.0 Fine Arts

This advanced course is designed for the student who intends to major in computer graphics and digital imagery. The emphasis is placed on advanced design work as well as working with advanced software. Course topics include 1) an introduction to the historic development of graphic design and mass communication technology; 2) an exploration of the basic concepts of graphic design and computer graphics; 3) an introduction to the hardware and software used for creating computer graphic images; 4) a survey of the materials used for traditional methods of graphic design production; 5) an exploration of peripheral devices (zero-dimensional, one-dimensional, two-dimensional, and three-dimensional peripherals); 6) comparison of the production of graphic designs by traditional and computerized methods; 7) comparison of color and black computer systems.; 8) exploration of two-dimensional processes including image enhancement and computer vision and image analysis; 9) an introduction to three-dimensional modeling including perspective, surface attributes and rendering on the computer; 10) a study of typography and its use in visual communication; 11) the use of desktop publishing as a graphic art tool; 12) a study of two-dimensional media applications (digital typography, illustration systems, pagination, animation; and 13) a career exploration in the graphic design/computer graphic fields. The student will develop a personal direction in their work and develop digital portfolio presentations for college portfolios, exhibitions and competitions.

Textbook(s): Communicating Through Graphic Design, ISBN 9780871929884
Drawing and Painting 1

Course Code: 617003
Prerequisites: Introduction to Painting
Credits: 2.0 Fine Arts

This course provides students with opportunities to use a variety of drawing and painting materials. Color theory is studied and utilized by students in developing their compositions. Course topics include 1) a survey of materials and techniques, both historical and contemporary, used in various painting styles and approaches; 2) an exploration of both wet and dry media used in the drawing and painting experience; 3) working through a series of drawings or paintings and solving specific problems related to composition, light source, color theory, and media limitations; and 4) learning to develop a personal style by expressing self through an honest representation of visual data. Students learn how to present and exhibit their work. Evaluation of work is an integral part of this course.


Drawing and Painting 2

Course Code: 617103
Prerequisites: Drawing and Painting 1
Credits: 2.0 Fine Arts

This course provides a concentrated focus in painting and drawing. Students develop personal style through study, skill development, experimentation and evaluation, study and utilize color theory and perceptual theory in their work, apply painting and drawing techniques in solving complex pictorial problems, and evaluate the historical significance of painting and drawing. A comprehensive portfolio of selected work is used for exhibits, competitions, college admissions and career opportunities. Critiques assist students in developing both written and verbal judgment. Course topics include 1) a survey of materials and techniques, both historical and contemporary, used in various painting styles and approaches; 2) an exploration of both wet and dry media used in the drawing and painting experience; 3) working through a series of drawings or paintings and solving specific problems related to composition, light source, color theory, and media limitations; and 4) learning to develop a personal style by expressing self through an honest representation of visual data.


Introduction to Art

Course Code: 616703
Prerequisites: VPA Application and Audition
Credits: 1.0 Fine Arts

This course introduces students to the theory of the elements and principles of design. Course topics include 1) an introduction to the logical division of the arts; 2) a survey of history, materials and techniques used in each major form; 3) an exploration of a variety of materials and techniques will accompany the study of each major form; 4) an introduction to the language of the visual arts, elements and principles; 5) historical forms of criticism; 6) a concise overview of the historical evolution of the major art forms through selected principles of elements and principles of design; 7) an introduction to computer graphics to create two-dimensional art forms. Traditional and contemporary visual art forms are studied in this course. Multimedia presentations, museum visits and student-teacher evaluation of work are important aspects of this course.

Textbook(s): The Visual Experience, ISBN: 9780871926272
Introduction to Computer Graphics (CVPA)

Course Code: CVPA
Prerequisites: CVPA Level 2 student
Credits: 1.0 Fine Art

The Introduction to Computer Graphics course is a project-based course structured to give students a hands on learning experience as they acquire industry standard knowledge and skills that are used to create a variety of two dimensional design products. Digital media is the major medium explored in the Introduction to Computer Graphics course. However, students are also required to explore fusing tradition media with digital media. This exploratory platform, of fusing traditional and digital media, facilitates creativity, effective visual communication, problem solving, visual literacy, as well as computer literacy. The projects within Introduction to Computer Graphics are aligned to contemporary and trending knowledge, skills, topics, ideas, and concepts within today’s art worlds and societies. Working with these components gives students a real-world connection to their art learning and art production. Art History and Aesthetics are addressed to inform and guide the art making decisions, processes, and techniques.

Textbook(s): Communicating Through Graphic Design and Exploring Visual Design, Davis Publications

Introduction to Drawing

Course Code: 616203
Prerequisites: VPA Application and Audition
Credits: 1.0 Fine Arts

This basic course provides a foundation in traditional and experimental drawing. Emphasis is placed on the development of perception through the use of the fundamentals of design. Analysis of historical examples, demonstrations, and critiques assists student development. The course culminates with matting, mounting, and exhibition techniques. Course topics include 1) an introduction to the historic development of drawing and its relationship to painting, sculpture and architecture; 2) drawing as a unique art form and as a planning phase for other art processes; 3) a survey of materials and techniques; 4) a working study of the relationship between the conceptual object and the visual elements (i.e., line, shape, value); 5) how the artist gives up the “known” object in order to “see and record” the elements that make it visible; 6) an introduction to the picture plane (the 2-D format); and 7) a working study of composition.

Textbook(s): Discover Drawing ISBN 9781615286683

Introduction to Painting

Course Code: 616603
Prerequisite: Completion of Level Year 1
Credits: 1.0 Fine Arts

This course introduces students to a variety of materials, methods and the techniques of painting. The content examines and analyzes the development of traditional and contemporary painting movements. Color, perception and theory are emphasized. The concepts of personal style are explored. Course topics include 1) an introduction to the development of the art of painting in human culture; 2) a survey of materials and techniques used in painting: historical, cultural and geographic influences; 3) an exploration of traditional subject matter (i.e., the figure, portraiture, still life, landscapes) as well as experimental subject matter; 4) extensive exploration in recording visual data in a variety of paint media; 4) a working study of composition as it applies to the relationship between the three dimensional reality and the two dimensional illusion of the picture plane; 5) an in-depth study of the elements of line, shape, texture and color as they pertain to the illusion of form and space into the picture plane; and 6) a broad examination of the devices painters use to compensate for those qualities of the three dimensional world which are lost in the transition to the two dimensional picture.
plane. Teacher-student evaluation of work is an integral part of this course.

Textbook(s): Experience Painting, Davis Publications, ISBN 9781615282708

**Introduction to Photography**

**Course Code:** 616403  
**Prerequisites:** Application and Audition  
**Credits:** 1.0 Fine Arts  

This course gives the student an introduction to the camera and darkroom. A wide variety of photographic theory, techniques and aesthetics will be covered, as well as the history of photography. Hands-on experience will provide knowledge in the use of cameras, studio lighting, film processing, printing and photographic presentation. The student will be encouraged to develop an individual vision and approach to the medium. Course topics include 1) history of photography, 2) the camera, 3) the lens, 4) film, 5) exposure, 6) processing black and white film, 7) the darkroom, 8) the print, 9) composition, 10) finishing and mounting, 11) lighting, 12) special techniques, and 13) careers in photography.

Textbook(s): Focus on Photography, ISBN 9781615284764

**Introduction to Printmaking**

**Course Code:** 616401  
**Prerequisites:** Completion of Level Year 1  
**Credits:** 0.5 Fine Arts

In this introductory course, students are taught planographic and intaglio methods. Topics include 1) an introduction to various methods of creating prints; 2) etching and monotype processes; and 3) visual presentations, hands-on demonstrations and field trips. The historical and theoretical aspects of print making are emphasized. Students are required to produce a small edition of etchings. Teacher-student evaluation of work is an integral part of this course.

Textbook(s): Experience Printmaking, ISBN 9780871929822

**Introduction to Sculpture**

**Course Code:** 616502  
**Prerequisites:** Completion of Level Year 1  
**Credits:** 0.5 Fine Arts

This course introduces students to a variety of materials, methods and the techniques of sculpture. The content examines and analyzes the development of traditional and contemporary sculpture movements. Color, perception, hands-on production of forms, contemporary forms, and theory are emphasized. Course topics include 1) the elements and principles of design and their application to sculpture; 2) the generalities of organic and geometric form; 3) the concept of an architectural framework; 4) the history of sculpture in western civilization; 5) multicultural influences on contemporary concept of sculpture; 6) sculpture’s historical relationship to architecture; 7) truth to materials and artful deception; 8) the relationship of form to meaning and feeling; 9) the interaction of sight and touch; 10) how sculptors get started; 11) traditional and experimental materials and how they work; 12) sources of sculptural inspiration (historical, contemporary and personal); 12) emphasis on papier mache, plaster and clay; and 13) additive methods. Teacher-student evaluation of work is an integral part of this course.

Textbook(s): Beginning Sculpture, ISBN 9780871926296
Photography 1
Course Code:  618203
Prerequisites:  Introduction to Photography
Credits:  2.0 Fine Arts
This course is for students interested in photography as an area of concentration in the visual arts. Student will acquire a better understanding of photography as a fine art through field trips to local galleries, museums and studios. Course topics include 1) a review of the principles and theories explaining the operation of the camera, its parts, functions, and exposure controls; 2) a review of safety in the darkroom and the proper handling of photographic chemicals; 3) a study of traditional photographic processes, techniques, and subject matter; 4) an exploration and experimentation of non-traditional approaches to producing photographically derived images, with an emphasis on experimentation with black & white materials using hand and chemically applied color; 5) a working study in the making and practical use of early processes such as Van Dyke Brown and Cyanotypes; 6) an investigation into the similarities and differences between invented photographic images and found images; 7) an in-depth study of the elements of line, shape, texture, and lighting techniques as they pertain to the illusion of form and space; 8) the appropriate presentation of photographs for exhibition and preservation of the photographic print; 9) research into the possible application of acquired photographic skills in today's job market; and 10) special techniques: hand tinted prints, chemically toned prints, perspective control, special lighting techniques, photomontage, the Sabattier effect. Critiques and examinations of the student's own work, as well as professional and historical work, will be an integral part of this exploration of the medium.
Textbook(s): Focus on Photography, ISBN 9781615284764

Photography 2
Course Code:  618303
Prerequisite:  Photography 1
Credits:  2.0 Fine Arts
This advanced course is designed for the student who intends to major in photography. Students will continue to develop their mastery of photographic processes as well as concentrate on developing their own personal voices through the development of their imagery. Course topics include 1) a review of the principles and theories explaining the operation of the camera, its parts, functions, and exposure controls; 2) a review of safety in the darkroom and the proper handling of photographic chemicals; 3) a study of traditional photographic processes, techniques, and subject matter; 4) an exploration and experimentation of non-traditional approaches to producing photographically derived images, with an emphasis on experimentation with black & white materials using hand and chemically applied color; 5) a working study in the making and practical use of early processes such as Van Dyke Brown and Cyanotypes; 6) an investigation into the similarities and differences between invented photographic images and found images; 7) an in-depth study of the elements of line, shape, texture, and lighting techniques as they pertain to the illusion of form and space; 8) the appropriate presentation of photographs for exhibition and preservation of the photographic print; 9) research into the possible application of acquired photographic skills in today's job market; and 10) special techniques: hand tinted prints, chemically toned prints, perspective control, special lighting techniques, photomontage, the Sabattier effect. Thematic work, critical and critique is an integral part of this course.
Textbook(s): Focus on Photography, ISBN 9781615284764
**Printmaking 1**

*Course Code:* 617503  
*Prerequisite:* Introduction to Printmaking  
*Credits:* 2.0 Fine Arts  

This intermediate level course expands students' knowledge of the printmaking process initiated in their second year. The four major methods of intaglio, relief, stencil and Planographic are included. Students are encouraged to discover creative and technical possibilities within each media. Historical and contemporary examples of prints are drawn upon for critical analysis and inspiration. Course topics include 1) an exploration of intaglio techniques which includes engraving, drypoint, mezzotint, etching, aquatint and softground; 2) an exploration of monotype and monoprint techniques; and 3) further exploration of linocut techniques. Critiques are an on-going part of the course.

Textbook(s): Experience Printmaking, ISBN 9780871929822

**Printmaking 2**

*Course Code:* 617603  
*Prerequisite:* Printmaking 1  
*Credits:* 2.0 Fine Arts  

This advanced course is designed for the student who intends to major in printmaking. The emphasis of this course is to enable the student to develop a personal style in one or more of the printmaking areas. Development of an interview-ready portfolio and participation in local and national competitions are given special focus. Critiques are an integral part of this course.

Textbook(s): Experience Printmaking, ISBN 9780871929822

**Sculpture 1**

*Course Code:* 618003  
*Prerequisite:* Introduction to Sculpture  
*Credits:* 2.0 Fine Arts  

This intermediate level course builds on Introduction to Sculpture. Additive and subtractive methods are developed. The unique properties of a variety of materials are studied. Craftsmanship and the proper use of tools are stressed. Historical and cultural examples enhance and inspire compositional ideas. Course topics include 1) the elements and principles of design as they apply to sculpture; 2) historical and cultural styles of sculpture; 3) an exploration of clay, plaster and wood as sculpture materials; 4) further exploration of truth to materials and artful deception; 4) the relationship of form to meaning and feeling; 5) use of the human body as form source for sculpture; 6) the difference between organic and geometric form; 7) sculpture as nexus between the sense of sight and touch; 8) how a sculptor finds source material; 9) developing sequences strategies; 10) further implications of additive and subtractive approaches; and 11) safe use and care of tools. Periodic critiques are an ongoing part of this course.

Textbook(s): Beginning Sculpture, ISBN 9780871926296

**Sculpture 2**

*Course Code:* 618103  
*Prerequisite:* Sculpture 1  
*Credits:* 2.0 Fine Arts  

This course is designed for the advanced student ready to form a personal style in sculpture. The personal styles of master sculptors are studied. The relationship of the artist's personal style and historical happenings are explored. Technical proficiency in selected media is encouraged. The
emphasis of this course is on the production of an interview-ready portfolio and/or body of work ready for exhibition. Course topics include 1) the elements and principles of design as they apply to sculpture; 2) historical and cultural styles of sculpture; 3) an exploration of clay, plaster and wood as sculpture materials; 4) further exploration of truth to materials and artful deception; 4) the relationship of form to meaning and feeling; 5) use of the human body as form source for sculpture; 6) the difference between organic and geometric form; 7) sculpture as nexus between the sense of sight and touch; 8) how sculptor finds source material; 9) developing sequences strategies; 10) further implications of additive and subtractive approaches; and 11) safe use and care of tools.

Textbook(s): *Beginning Sculpture*, ISBN 9780871926296

**World Architecture**

*Course Code:* 619803  
*Prerequisites:* Introduction to Sculpture, Art History  
*Credits:* 2.0 Fine Arts

In this course students explore a broad spectrum of creative possibilities offered by the development of architectural forms, styles, and functions from pre-classical times to the present. Students will engage in a number of concrete and abstract experiences designed to promote a greater understanding of architecture and provoke critical analysis of the sociological, cultural, and political factors that have affected architecture. The thematic approach encompasses five major themes: climate, economics, available materials, technology, and people. The themes serve as a framework and point of reference for the survey. Course topics include 1) an introduction to the elements and principles of architecture including presentation and practice of appropriate vocabulary; 2) an introduction to the nature of architecture (how it developed historically, motivation for production, variety of form, and prescription for use); 3) a survey of materials and techniques used in architecture, relating particular styles to time, place, and space; 4) an exploration of function focusing on cultural comparisons; 5) an assessment of how the architectural process transforms actual and imaginative elements into a unique representation; 6) the significance of architecture in national and ethnic culture and the ways in which this significance changes over time and place; 7) a discussion of what architecture implies about reality; 8) an identification of five architectural themes in terms of each work studied; 9) an evaluation of the motivations for and consequences of restoration and renovation; and 10) an analysis of specific works in terms of their emotional, rational, and aesthetic impact on surrounding environment and the viewer. Finally, students will be asked to make and defend evaluative judgments concerning the nature and worth of historical structures as they relate to current issues of renovation, restoration, public housing, and city planning.

Textbook(s): *Janson’s History of Art*, Stokstad’s *Art History*, Gardner’s *Art Through the Ages*, and online resources

**World Languages**

**American Sign Language 1**

*Course Code:* 194103  
*Prerequisites:* None  
*Credits:* 1.0 World Language

The first year introduces students to American Sign Language and Deaf culture. Grammatical principles of the language are introduced. Visual-gestural communication techniques are used to develop basic signing skills. The course emphasis will be on receptive skills and developing expressive skills. The
American Sign Language 2
Course Code: 194203
Prerequisites: American Sign Language 1
Credits: 1.0 World Language
The continuation of ASL1 skill developed focusing with greater emphasis on expressive signing proficiency and comprehension of signed narratives. Students participate in various language functions such as talking about life events, nationalities and family history and describing objects. The activities take place in small group discussion, role-play, short stories and dialogues. Videotaped activities of a variety of signers are practiced for improved receptive skills. Cultural and language behaviors are studied. Sign language expressions are developed.
Textbook(s): Master ASL, ISBN 9781881133209

American Sign Language 3
Course Code: 194303
Prerequisites: American Sign Language 2
Credits: 1.0 World Language
This course is a continuation of ASL2, expanding the emphasis on more complex ASL grammar and sentence structure, vocabulary development, and Deaf culture. The student will develop greater conversation fluency with Deaf people. Precision in self-expression will be emphasized. Understanding the role of interpreters and other career opportunities in the area of deafness are discussed.
Textbook(s): Master ASL, ISBN 9781881133209

American Sign Language 4
Course Code: 194403
Prerequisites: American Sign Language 3
Credits: 1.0 World Language
At ASL 4, students are expected to master fluency of complex expressive and receptive skills. The course includes class discussions, advanced grammatical concepts and expressions, research projects, viewing videotape of various signers. Student will give signed presentations based on their research to sign language classes. The aim is greater precision of self-expression and to be able to understand the deaf signer the first time. Increased understanding of the role of the interpreter with the use of hands-on experience of actual interpreting during school hours and in the community. Various interactions with the Deaf Community will be encouraged.
Textbook(s): Master ASL, ISBN 9781881133209

American Sign Language 5
Course Code: 194413
Prerequisites: American Sign Language 4
Credits: 1.0 World Language
With the continuation of ASL to level 5, students are expected to master fluency of complex expressive and receptive skills for a successful communication in the sign language. The course
includes advanced grammatical concepts and expressions, research projects, creating quotes for the language, and viewing videotape of various signers. Students all give signed presentations to sign language classes based on their research. The aim is greater precision of self-expression, understanding the deaf signer the first time, and increasing understanding of the role of the interpreter with the use of hands-on-experience of actual interpreting during school hours and in the community. Various interactions with the deaf community and professors from universities will be encouraged.

Textbook(s): Master ASL, ISBN 9781881133209

**Arabic 1**

*Course Code:* 192103  
*Prerequisites:* None  
*Credits:* 1.0 World Language

In the first year of Arabic, communication and the sounds of the language are learned through dialogues, learning scenarios, repetition, practice exercises, and simulated real life situations. The students learn to understand, speak, read, and write a limited amount of material. Students will learn the principles of Arabic script. Cultural information related to various related countries is taught as part of the content.

Textbook(s): *Read and Speak Arabic for Beginners*

**Arabic 2**

*Course Code:* 192203  
*Prerequisites:* Arabic 1  
*Credits:* 1.0 World Language

The communication skills begun in the first year are continued. Greater emphasis is placed on oral proficiency, listening, reading, and writing using Arabic script. Students must learn the grammatical principles of the language to write a limited amount of material.

Textbook(s): *Al-Kitaab*, ISBN 9781589011045

**Arabic 3**

*Course Code:* 192303  
*Prerequisites:* Arabic 2  
*Credits:* 1.0 World Language

The communication skills continue during the third year of study. Greater emphasis is placed on oral proficiency, listening, and reading and writing using Arabic script. The teacher follows the ACTFL descriptors in order to assist the student with the oral communication tasks. Students need to apply the grammatical principles of the language to write short paragraphs.

Textbook(s): *Al-Kitaab*, ISBN 9781589011045

**Arabic 4**

*Course Code:* 192113  
*Prerequisites:* Arabic 3  
*Credits:* 1.0 World Language

In this course students will strengthen and use their writing skills and write short compositions with a more complex vocabulary. Arabic Culture will continue to be a major point of emphasis through real life scenarios. The class will discuss current topics and compare and contrast other cultures.

Textbook(s): *Al-Kitaab*, ISBN 9781589011045
**International Baccalaureate Chinese Ab Initio 1**

*Course Code:* 188313  
*Prerequisites:* None  
*Credits:* 1.0 World Language

IB Chinese Ab Initio is a foreign language course designed for complete beginners. Students are prepared to use the language appropriately in a variety of settings. Each course develops students' powers of expression in a second language, provides them with a resource for the study of other subjects, and brings them into contact with ways of thought that may differ from their own. Exercises in grammar, reading and writing, and culture are presented with such topics as hobbies and leisure activities, weather and climate, everyday life, food, shopping, travel, at home, transportation, the body and health, life and careers, and communication and media.

Textbook(s): TBA

**International Baccalaureate Chinese Ab Initio 2**

*Course Code:* 188323  
*Prerequisites:* IB Chinese Ab Initio 1  
*Credits:* 1.0 World Language

IB Chinese Ab Initio is a foreign language course designed for complete beginners. Students are prepared to use the language appropriately in a variety of settings. Each course develops students' powers of expression in a second language, provides them with a resource for the study of other subjects, and brings them into contact with ways of thought that may differ from their own. Exercises in grammar, reading and writing, and culture are presented with such topics as hobbies and leisure activities, weather and climate, everyday life, food, shopping, travel, at home, transportation, the body and health, life and careers, and communication and media.

Textbook(s): TBA

**Chinese 1**

*Course Code:* 188103  
*Prerequisites:* None  
*Credits:* 1.0 World Language Level 1

In the first year of Chinese, communication and the sounds of the language are learned through dialogues, learning scenarios, repetition, practice exercises, and real-life situations (student performances). The students learn to understand, speak, read and write a limited amount of material. Students will learn the principles of Chinese writing and cultural information about Chinese-speaking countries.

Textbook(s): Zhen Bang! Level 1, ISBN 9780821946473

**Chinese 2**

*Course Code:* 188203  
*Prerequisites:* Chinese 1  
*Credits:* 1.0 World Language

The communication skills begun in the first year are continued. Greater emphasis is placed on oral proficiency, listening, reading and writing Chinese using the characters. Students must learn the grammatical principles of the language to write a limited amount of material.

Textbook(s): Zhen Bang! Level 2, ISBN 9780821968024
Chinese 3
Course Code: 188303
Prerequisites: Chinese 2
Credits: 1.0 World Language
In this course students will continue to strengthen and utilize their writing skills. Writing and reading skills as well as short compositions will be emphasized. Listening, reading, and speaking skill activities will be increased. Chinese culture will continue to be a major point of emphasis through practical scenarios that one would encounter while living in or visiting China.

Textbook(s): Zhen Bang Level 3, ISBN 9780821946497

Chinese 4
Course Code: 188403
Prerequisites: Chinese 3
Credits: 1.0 World Language
In the level 4 Chinese course, students continue to develop communicative skills at a more advanced level through selected functions and topics. Students will learn the three modes of communications: Interpersonal, Interpretive, and Presentational. Application of grammatical principles of the language to form new sentences in meaningful exchanges and real world situations will be emphasized. Students will also begin using cognitive-academic language. The ability to distinguish between the modern vernacular and classical literary language (which often appears in poetry) will also be developed. Cultural information relevant to China is integrated through the languages and various activities that focus on the perspective, practices, and products of the target language.

Textbook(s): Zhen Bang Level 3, ISBN 9780821946497

French 1
Course Code: 152003
Prerequisites: None
Credits: 1.0 World Language
In the first year of French communication and the sounds of the language are learned through dialogues, learning scenarios, practice exercises, and real-life situations. The students learn to understand, speak, read, and write a limited amount of material and to apply grammatical principles of the language to form new ideas and to communicate them. Cultural information about the countries is taught as a part of the content. To advance to the next level in the language, students need to pass the end of the year assessment.

Textbook(s): D’Accord Level 1, ISBN 9781618578754

Dual Credit: Earning credit for FRN 1010 French for Beginners at Prince George’s Community College makes a student eligible for 152013 French 1 DE credit.

French 2
Course Code: 155003
Prerequisites: French 1
Credits: 1.0 World Language
The development of skills begun in the first year of French is continued. Greater emphasis is placed on oral proficiency, listening, reading and writing in French. Knowledge of grammar is expanded, including object pronouns and most of the verb tenses beyond the present. Cultural information is taught through basic content readings and supplementary materials.
Textbook(s): *D’Accord Level 2*, ISBN 9781618578778

Dual Credit: Earning credit for FRN 1020 French Advanced Beginners at Prince George’s Community College makes a student eligible for 155013 French 2 DE credit.

Dual Credit: Earning credit for FREN203 Intermediate French at University of Maryland College Park makes a student eligible for 155013 French 2 DE credit.

**French 2 Honors**

*Course Code:* 155193  
*Prerequisites:* French 1; MSA Reading score at the advanced level; most recent PARCC Reading Score at the Advanced Level  
*Credits:* 1.0 World Language; Weighted

This course is designed for identified selected highly able students who have met the prerequisites. Lessons and units include activities and a writing component that will challenge students’ skills.

Textbook(s): *D’Accord Level 2*, ISBN 9781618578778

**French 2 Pre Diploma Program**

*Course Code:* 155113  
*Prerequisites:* French 1  
*Credits:* 1.0 World Language

Through International Baccalaureate pedagogy and assessment strategies, French 2 PDP builds upon existing vocabulary and grammar structures that students have learned in the prerequisite French 1. They continue to learn to communicate through three modes of communication: Interpersonal (Conversation); Interpretive (Listening and Reading); and Presentational (Speaking and Writing). They learn to apply grammatical principles to form new sentences in meaningful exchanges and real world situations. Cultural information is integrated through the language and various activities that focus on the perspective, practices and products of the target language.

Textbook(s): *D’Accord Level 2*, ISBN 9781618578778

**French 3**

*Course Code:* 156003  
*Prerequisites:* French 2  
*Credits:* 1.0 World Language

By the third level of French students are required to use the language in class conversations, and read both fiction and nonfiction, including magazines and newspapers. Learning of vocabulary is greatly expanded. Some supplementary reading is required. Basic grammar is reviewed and more complex structure is taught. Cultural projects are to be carried out in the foreign language. Students are expected to write coherent paragraphs, short summaries, and outlines in foreign language. Frequent testing of listening and reading comprehension is expected in this course.

Textbook(s): *D’Accord Level 3*, ISBN 9781618578792

Dual Credit: Earning credit for FRN 2010 Intermediate French at Prince George’s Community College makes a student eligible for 156013 French 3 DE credit.
French 3: Pre Diploma Program

Course Code: 156113
Prerequisites: International Baccalaureate student; French 2
Credits: 1.0 World Language

Through International Baccalaureate pedagogy and assessment strategies, French 3 PDP students are expected to demonstrate a more profound knowledge of language as they move towards communicative proficiency. They will also be able to demonstrate competence in each of the five domains of performance: comprehensibility, comprehension, language control, vocabulary usage, communication strategies and cultural awareness. Students continue to be exposed to cultural information.

Textbook(s): D’Accord Level 3, ISBN 9781618578792

French 4

Course Code: 157003
Prerequisites: French 3
Credits: 1.0 World Language

In the level 4 French course, students are expected to use the language in conversation, class discussions, in oral and written reports and research projects. Reading includes literary works, social and cultural material, magazines, and newspapers from the foreign country. Grammar is reviewed, and the finer points are analyzed through work with original compositions, summaries, reports, advanced exercises, and some translation activities. The aim is greater precision in self-expression. Students are expected to understand and write from dictation material heard for the first time. The use of the foreign language in school-wide and community projects is encouraged.

Textbook(s): Themes, ISBN 9781680040357

Dual Credit: Earning credit for FRN 2020 Intermediate French II at Prince George’s Community College makes a student eligible for 157013 French 4 DE credit.

Advanced Placement French Language and Culture

Course Code: 158803
Prerequisites: French 4; Application and orientation session
Credits: 1.0 World Language, Weighted

The College Board’s Advanced Placement Program for French 5 will provide course work, written assessments, and practical experiences culminating in the AP French exam.

Textbook(s): IMAGINEZ Le francias sans frontieres, ISBN 9781605768861

French 6

Course Code: 158913
Prerequisites: Application and orientation session
Credits: 1.0 World Language

French 6 will provide course work, written assessments, and practical experiences.

Textbook(s): IMAGINEZ Le francias sans frontieres, ISBN 9781605768861
French 7
Course Code: 158123
Prerequisites: French 6
Credits: 1.0 World Language, Weighted

French 7 is a content-based course rather than a skills-acquisition course. The knowledge of grammatical concepts in French and the language skills acquired in levels 1-5 are to be used to fulfill creative tasks. The main purpose of this course is the application of French language skills for communication and more advanced levels of literature discussions. Essay writing and research are components of this level.

Textbook(s): Littérature francophone; Anthologie, Oxford University Press; Communication Plus, Centre Educatif Culturel Inc.

French for Native Speakers Level 2
Course Code: 152203
Prerequisites: Intermediate-Low to Mid French Reading Level
Credits: 1.0 World Language

This course is designed for students who are totally bilingual in French and English. It is conducted entirely in French for students who speak and read French at the intermediate-low to -mid level. The course will emphasize reading and writing, critical thinking, culture, literary exposure, and improving speaking skills.

Textbook(s): Daccord Level 2 Cahier de l’eleve, ISBN 9781626802025

French for Native Speakers Level 3
Course Code: 152303
Prerequisites: Intermediate-Mid to Advanced French Reading Level
Credits: 1.0 World Language

This course is designed for students who are totally bilingual in French and English. It is conducted entirely in French for students who speak and read French at the intermediate-mid to advanced level. The course will emphasize reading and writing, critical thinking, culture, literary exposure, and improving speaking skills.

Textbook(s): Daccord Level 3 Cahier de l’eleve, ISBN 9781626802032

French for Native Speakers Level 4
Course Code: 152403
Prerequisites: Advanced Reading Level in French
Credits: 1.0 Elective

This course is designed for students who are totally bilingual in French and English. It is conducted entirely in French for students who speak and read French at the advanced level. The course will emphasize reading and writing, critical thinking, culture, literary exposure, and improving speaking skills.

Textbook(s): Themes 1e, ISBN 9781680040357
German 1
Course Code: 173003
Prerequisites: None
Credits: 1.0 World Language
In the first year of German study, communication and the sounds of the language are learned through dialogues, practice exercises and situations. The students learn to understand, speak, read, and write a limited amount of material. Students must learn to apply grammatical principles of the language to form new ideas and to communicate them. Cultural information is taught about countries where the target language is spoken.
Textbook(s): Mosaik German Level 1, ISBN 9781618571830

German 2
Course Code: 174003
Prerequisites: German 1
Credits: 1.0 World Language
The development of skills begun in the first year of German is continued. Greater emphasis is placed on oral proficiency, reading and writing in German. Knowledge of grammar is expanded, including object pronouns and most of the verb tenses beyond the present. Cultural information about the people is taught through readings in the basic text and supplementary materials.
Textbook(s): Mosaik German Level 2, ISBN 9781618571847

German 3
Course Code: 175003
Prerequisites: German 2
Credits: 1.0 World Language
By the third level of German students are required to use the language to a greater extent in class conversations, and for reading both fiction and nonfiction, including magazines and newspapers. Learning of vocabulary is greatly expanded. Some supplementary reading is required. Basic grammar is reviewed and more complex structure is taught. Cultural projects are to be carried out in the foreign language. Students are expected to write coherent paragraphs, short summaries, and outlines in the foreign language. Frequent testing of listening and reading comprehension is expected in this course.
Textbook(s): Mosaik German Level 3, ISBN 9781618577436

German 4
Course Code: 176003
Prerequisites: German 3
Credits: 1.0 World Language
In the level 4 German course, students are expected to use the language in conversation, class discussions, in oral and written reports and research projects. Reading includes literary works, social and cultural material, magazines, and newspapers from the foreign country. Grammar is reviewed, and the finer points are analyzed through work with original compositions, summaries, reports, advanced exercises, and some translation activities. The aim is greater precision in self-expression. Students are expected to understand and write from dictation material heard for the first time. The use of the foreign language in school-wide and community projects is encouraged.
Textbook(s): DENK MAL German 4 Deitsch ohne Grezen, ISBN 9781626809130
Italian 1
Course Code: 190103
Prerequisites: None
Credits: 1.0 World Language

This introductory course offers students the opportunity to communicate in Italian and to develop foreign language skills in listening, speaking, reading and writing. The program focuses on functional language in selected situations. Appropriate pacing is a key element of the course that allows students to understand linguistic, cultural and grammatical concepts in second language study. Lessons incorporate visual resources from various materials to provide a basis for comprehending cultural content. Writing and reading are limited to topics that are introduced.

Textbook(s): AVANTI Level 1, ISBN 9780079023315

Italian 2
Course Code: 190203
Prerequisites: Italian 1
Credits: 1.0 World Language

Communication and the sounds of the language are learned through dialogues, learning scenarios, practice exercises, and real-life situations. The students learn to understand, speak, read, and write a limited amount of material. Students will learn to apply grammatical principles of the language to form new ideas and to communicate them. Cultural information about the countries is taught as a part of the content.

Textbook(s): AVANTI Level 2, ISBN 9780079023322

Italian 3
Course Code: 190303
Prerequisites: Italian 2
Credits: 1.0 World Language

The development of skills begun in previous years of the language is continued. Greater emphasis is placed on oral proficiency, listening, reading and writing in Italian. Knowledge of grammar is expanded, including object pronouns and most of the verb tenses beyond the present. Cultural information is taught through basic content readings and supplementary materials.

Textbook(s): Imagina, ISBN 9781626809093

Italian 4
Course Code: 190403
Prerequisites: Italian 3
Credits: 1.0 World Language

In the level 4 Italian course, students are expected to use the language in conversation, class discussion, oral and written reports, and research projects.

Textbook(s): Imagina, ISBN 9781626809093
Advanced Placement Italian Language and Culture

Course Code: 190603
Prerequisites: Italian 4, Application and orientation session
Credits: 1.0 World Language, Weighted

The AP Italian Culture and Language course is designed to be comparable to college/university Italian courses that serve as a transition between language courses and linguistics or content-based courses. The aim is to develop student's reading, writing, listening, and speaking skills within a cultural frame of reference reflective of the richness of Italian language and culture. Students will benefit from learning about structural aspects of the language while being exposed to interwoven cultural content throughout the course.

Textbook(s): Immagina, ISBN 9781626809093

IB Italian ab initio 1

Course Code: 190613
Prerequisites: None
Credits: 1.0 World Language

IB Italian Ab initio is a foreign language course designed for complete beginners. Students are prepared to use the language appropriately in a variety of settings. Each course develops students' powers of expression in a second language, provides them with a resource for the study of other subjects, and brings them into contact with ways of thought that may differ from their own. Exercises in grammar, reading and writing, and culture are presented with such topics as hobbies and leisure activities, weather and climate, everyday life, food, shopping, travel, at home, transportation, the body and health, life and careers, and communication and media.

Textbook(s): Avanti Custom vol 1 Italian, ISBN 97800790233315

IB Italian ab initio 2

Course Code: 190623
Prerequisites: IB Ab initio 1
Credits: 1.0 World Language

IB Italian Abs initio is a foreign language course designed for complete beginners. Students are prepared to use the language appropriately in a variety of settings. Each course develops students' powers of expression in a second language, provides them with a resource for the study of other subjects, and brings them into contact with ways of thought that may differ from their own. Exercises in grammar, reading and writing, and culture are presented with such topics as hobbies and leisure activities, weather and climate, everyday life, food, shopping, travel, at home, transportation, the body and health, life and careers, and communication and media.

Textbook(s): Avanti Custom vol 2 Italian SE, ISBN 9780079023322

Japanese 1

Course Code: 150003
Prerequisites: None
Credits: 1.0 World Language

Students will be taught to speak the language contextually in terms of greetings, school activities, limited social situations, counting and sports. They will be introduced to reading and writing through the phonetically based symbols called Hiragana and Katakana, eventually learning a pre-determined number of Japanese Kanji. Grammar will be taught through the structure of the Japanese language, especially the cultural context of the verb forms, as well as vocabulary expansion. Culture of the
Japanese people will be an integral part of the course. It will be necessary for students to apply study skills consistently in order to succeed in both the oral and written aspects of this course.


**Japanese 2**

*Course Code: 150103*

*Prerequisites:* Japanese 1

*Credits:* 1.0 World Language

Japanese 2 continues in the same vein as level 1. After acquiring skill in writing the Hiragana and Katakana syllabaries (mainly in level 1), students concentrate on the Kanji in level 2. The listening and speaking skills are developed at a higher level. Grammatically, in addition to continuation of the grammar of level 1, there is an introduction to phrases characteristic of hierarchical levels of social relationships. Students will learn to express degrees of polite speech. Compound verbs are included. Cultural emphasis in the course will be on modern post-World War II in Japan.


**Japanese 2 Pre-Diploma Program**

*Course Code: 149193*

*Prerequisites:* Japanese 1; MSA Reading score at the advanced level; most recent PARCC Reading Score at the Advanced Level

*Credits:* 1.0 World Language, Weighted

Textbook(s): TBA

**Japanese 3**

*Course Code: 150203*

*Prerequisites:* Japanese 2

*Credits:* 1.0 World Language

Japanese 3 will utilize writing skills in Hiragana and Katakana, while further expanding students' knowledge of Kanji. Writing and reading skills as well as short compositions will be emphasized. Listening, reading and speaking skill activities will be increased. Students will be introduced to the grammatical aspects of "Keigo" (polite speech form), particularly as related to verb usage. Other grammar will be presented such as causative verbs, particles used for sentence clauses, conjunctions, and various counters used in the Japanese language. Culture will continue to be emphasized using practical scenarios that one would encounter while living in or visiting Japan.


**Japanese 4**

*Course Code: 150303*

*Prerequisites:* Japanese 3

*Credits:* 1.0 World Language

Level 4 Japanese will have extensive use of informal speech forms, while expanding vocabulary for daily life, such as managing a budget and travel. Extensive use of honorific verbal forms (keigo) will be further developed, as well as the increase of formal speech. Reading comprehension will be heightened through the use of contextualized paragraphs and short stories. Students will be working with authentic materials, such as newspaper articles and selected sections of popular and historical novels. Authentic video and radio shows will be shown or listened to in order to further develop student familiarity with native speech patterns and intonation. Culture bonding concepts and practices, such
as “reserve,” “obligation/indebtedness,” and “outside/inside,” will be explored in depth. The Japanese economy is a theme presented in relationship to the workplace. Students should have a working knowledge of at least four hundred Kanji (ideographs) beyond the Hiragana and Katakana syllabaries.


**Advanced Placement Japanese Language and Culture**

**Course Code:** 150803

**Prerequisites:** Japanese 4; Application and orientation session, Japanese 3 assessment, teacher recommendation

**Credits:** 1.0 World Language, Weighted

Students will study the language as a whole through content-based themes such as Japanese history, tradition, contemporary culture, and social issues. The course curriculum is built based on the National Standards for Japanese Language Learning. Students will deepen their understanding of the language and Japanese perspectives towards social issues and values. Through various speaking, listening, reading, and writing activities, students will acquire a more solid knowledge of grammar, vocabulary, and kanji. They will also learn how to manipulate the Japanese language for better comprehension.


**Korean 1**

**Course Code:** 193003

**Prerequisites:** None

**Credits:** 1.0 World Language

In the first year of Korean students will be taught to speak the language contextually in terms of greetings, school activities, limited social situations, counting, food, fashion and sports. The students will learn to understand speak, read and write limited amount of materials in the Novice level (Proficiency levels by ACTFL). Students will learn the principles of Korean writing and cultural costumes and traditions of Korean speaking countries.

Textbook(s): Dynamic Korean 1, ISBN 9788955187595

**Korean 2**

**Course Code:** 193013

**Prerequisites:** Korean 1

**Credits:** 1.0 World Language

Korean 2 is the language sequential for Korean 1.

Textbook(s): Dynamic Korean 2, ISBN 9780578048659

**Korean 3**

**Course Code:** 193023

**Prerequisites:** Korean 2

**Credits:** 1.0 World Language

In the Korean level 3 course great emphasis is placed on oral proficiency, listening, speaking, reading and writing. Students are exposed to write short paragraph in the target language. Students create projects based on real life situation. Technology is used to create videos clips in the Korean language. Cultural information is taught through basic content reading and supplementary materials..
Dynamic Korean

Latin 1
Course Code: 143003
Prerequisites: None
Credits: 1.0 World Language
In this beginning Latin course students learn to pronounce and read orally by imitating the teacher. The classical pronunciation is used. The main tasks in the first level are learning the word order of the Latin sentence, the case endings of Latin nouns and adjectives according to use in the sentence. Verb forms of all six tenses of the indicative mood, active and passive, are learned. Students are introduced to techniques of translation. Myths and legends of ancient Rome and Greece are read and translated. Study of the ancient Mediterranean world and of Roman life is included. A large part of the course is devoted to the study of English words derived from Latin. The main skill developed is reading of Latin.


Latin 2
Course Code: 144003
Prerequisites: Latin 1
Credits: 1.0 World Language
In this level more complex grammatical forms are taught with the aim of developing the skill of reading Latin with comprehension. Students continue to prepare translations. Students are expected to translate a few selected passages at sight, and to analyze a Latin sentence explaining the grammatical function of each part. Derivative work is greatly expanded to include Latin phrases used in English and modern applications of Latin in the terminology of various professions. Readings include mythology, history, government, and social customs in Ancient Rome. The culture of the ancient world is related to modern conditions.

Textbook(s): Cambridge and Latin Cambridge 5E

Latin 3
Course Code: 145003
Prerequisites: Latin 2
Credits: 1.0 World Language
In this course the first two years of Latin are reviewed with the addition of the finer points of grammar. Excerpts from the works of such authors as Cicero, Pliny, Ovid, and Seneca are read and translated with emphasis on precise meanings. Some techniques in reading Latin poetry are introduced. The Latin/English relationship is studied in greater depth with consideration of Greek influences. Students become aware of Roman life across the centuries and their contribution to western civilization.

Textbook(s): Cambridge Latin Course Unit 5E

Latin 4
Course Code: 146003
Prerequisites: Latin 3
Credits: 1.0 World Language
This course provides an opportunity for advancing, refining, and enjoying the skills learned during the first three years. The principle literary work to be read consists of the first three books of Virgil’s Aeneid. The aim is to appreciate and enjoy the poetry. Other activities include the study of advanced
Advanced Placement Latin Vergil

Course Code: 147103
Prerequisites: Latin 4; Application and orientation session
Credits: 1.0 World Language; Weighted

The College Board’s Advanced Placement Program for Latin 5 will provide course work, written assessments, and practical experiences culminating in the AP Latin exam.

Textbook(s): College Board Materials

Linguistics

Course Code: 198100
Prerequisites: Global Studies/International Relations student
Credits: 0.5 Elective

This course is designed for the International Relations and the Global Studies Academy. It provides an overview of the history of linguistics, how one acquires language, the nature of communication, and the anthropology of linguistics. Beginning with Historical Linguistics, students will learn how languages are related, how long a language takes to reappear, disappear, and change. The students will discuss how the language is acquired. During this course, the students will also study the significance of phonology, morphology, syntax, semantics, and how does one become bilingual. They will discuss the nature of and the different types of communication.

Textbook(s): A Concise Introduction to Linguistics, ISBN 9780205185207

Portuguese 1

Course Code: 170003
Prerequisites: None
Credits: 1.0 World Language

In the first year of Portuguese, communication and the sounds of the language are learned through dialogues, learning scenarios, practice exercises, and real-life situations. The students learn to understand, speak, read, and write a limited amount of material and to apply grammatical principles of the language to form new ideas and to communicate them. Cultural information is an important part of the subject.

Textbook(s): Portugese Ponto de Encontro, ISBN 9780205876624

Portuguese 2

Course Code: 170013
Prerequisites: Portuguese 1
Credits: 1.0 World Language

In the first year of Portuguese, communication and the sounds of the language are learned through dialogues, learning scenarios, practice exercises, and real-life situations. The students learn to understand, speak, read, and write a limited amount of material and to apply grammatical principles of the language to form new ideas and to communicate them. Cultural information is an important part of the subject.
**Portuguese 3**

**Course Code:** 170023  
**Prerequisites:** Portuguese 2  
**Credits:** 1.0 World Language

This course is a continuation of Portuguese level 2. Students will practice more complex sentences and develop communication skills to sustain a conversation with a native speaker.


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**International Baccalaureate Russian Ab Initio 1**

**Course Code:** 186203  
**Prerequisites:** None  
**Credits:** 1.0 World Language, Weighted

IB Russian Ab Initio is a foreign language course designed for complete beginners. Students are prepared to use the language appropriately in a variety of settings. Each course develops students’ powers of expression in a second language, provides them with a resource for the study of other subjects, and brings them into contact with ways of thought that may differ from their own. Exercises in grammar, reading and writing, and culture are presented with such topics as hobbies and leisure activities, weather and climate, everyday life, food, shopping, travel, at home, transportation, the body and health, life and careers, and communication and media.

**Textbook(s):** *Golosa*, ISBN 9780131986282

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**International Baccalaureate Russian Ab Initio 2**

**Course Code:** 186303  
**Prerequisites:** IB Russian Ab Initio 1  
**Credits:** 1.0 World Language, Weighted

IB Russian Ab Initio is a foreign language course designed for complete beginners. Students are prepared to use the language appropriately in a variety of settings. Each course develops students’ powers of expression in a second language, provides them with a resource for the study of other subjects, and brings them into contact with ways of thought that may differ from their own. Exercises in grammar, reading and writing, and culture are presented with such topics as hobbies and leisure activities, weather and climate, everyday life, food, shopping, travel, at home, transportation, the body and health, life and careers, and communication and media.

**Textbook(s):** *Golosa*, ISBN 9780131986282

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**Russian 1**

**Course Code:** 183003  
**Prerequisites:** None  
**Credits:** 1.0 World Language

In the first year of Russian study, communication and the sounds of the language are learned through dialogues, exercises and situations. The students learn to understand, speak, read, and write a limited amount of material. Students must learn to apply grammatical principles of the language to form new ideas and to communicate them. Cultural information is taught about countries where the target language is spoken. Letters of the Russian alphabet are gradually introduced and practiced in
the Russian 1 course.

Textbook(s): *Golosa*, ISBN 9780131986282

**Russian 2**

*Course Code:  184003*

*Prerequisites:  Russian 1*

*Credits:  1.0 World Language*

The development of skills begun in the first year of Russian is continued. Greater emphasis is placed on oral proficiency, reading and writing in Russian. Knowledge of grammar is expanded, including object pronouns and most of the verb tenses beyond the present. Cultural information about the people is taught through readings in the basic text and supplementary materials.

Textbook(s): *Golosa*, ISBN 9780131986282

**Russian 3**

*Course Code:  185003*

*Prerequisites:  Russian 2*

*Credits:  1.0 World Language*

By the third level of Russian students are required to use the language to a greater extent in class conversations, and for reading both fiction and nonfiction, including magazines and newspapers. Learning of vocabulary is greatly expanded. Some supplementary reading is required. Basic grammar is reviewed and more complex structure is taught. Cultural projects are to be carried out in the foreign language. Students are expected to write coherent paragraphs, short summaries, and outlines in the foreign language. Frequent testing of listening and reading comprehension is expected in this course.

Textbook(s): *Golosa*, ISBN 9780131986282

**Russian 4**

*Course Code:  186003*

*Prerequisites:  Russian 3*

*Credits:  1.0 World Language*

In the level 4 Russian course, students are expected to use the language in conversation, class discussions, in oral and written reports and research projects. Reading includes literary works, social and cultural material, magazines, and newspapers from the foreign country. Grammar is reviewed, and the finer points are analyzed through work with original compositions, summaries, reports, advanced exercises, and some translation activities. The aim is greater precision in self-expression. Students are expected to understand and write from dictation material heard for the first time. The use of the foreign language in school-wide and community projects is encouraged.

Textbook(s): *Golosa*, ISBN 9780131986282

**Russian 5**

*Course Code:  186103*

*Prerequisites:  Russian 4; Application and orientation session*

*Credits:  1.0 World Language; Weighted*

Level 5 is the most advanced foreign language course; therefore, students are expected to speak solely in the second language. Students engage in reading for information in order to prepare oral and written reports, as well as for literary appreciation. Grammar is reviewed and discussed in the foreign language as the students’ composition and oral work reveal their weaknesses. The students...
work on broad units dealing with literary, cultural or social themes. Students are to use a variety
of foreign language sources of information, including films, recordings, native speakers, as well as
printed matter in preparing their assignments. Contemporary problems of the foreign country as
well as national problems are discussed in the foreign language. Long-range individual projects on
special student-selected topics are expected. Creative writing is encouraged through such activities
as producing a newspaper, poetry magazine, and storybooks for children, or term papers.

Textbook(s): College Board Materials

**Spanish 1**

*Course Code:* 162003  
*Prerequisites:* None  
*Credits:* 1.0 World Language

In the first year of Spanish communication and the sounds of the language are learned through
dialogues, learning scenarios, practice exercises, and real-life situations. The students learn to
understand, speak, read, and write a limited amount of material. Students will learn to apply grammatical
principles of the language to form new ideas and to communicate them. Cultural information about
the countries is taught as a part of the content.

Textbook(s): *Espanol Santillana*, ISBN 9781622639458

Dual Credit: Earning credit for SPN 1010 Spanish for Beginners at Prince George’s Community
College makes a student eligible for 162013 Spanish 1 DE credit.

**Spanish 2**

*Course Code:* 165003  
*Prerequisites:* Spanish 1  
*Credits:* 1.0 World Language

The development of skills begun in the first year of Spanish is continued. Greater emphasis is placed
on oral proficiency, listening, reading and writing in Spanish. Knowledge of grammar is expanded,
including object pronouns and most of the verb tenses beyond the present. Cultural information is
taught through basic content readings and supplementary materials.

Textbook(s): *Espanol Santillana*, ISBN 9781622639496

Dual Credit: Earning credit for SPN 1020 Spanish for Advanced Beginners at Prince George’s
Community College makes a student eligible for 165013 Spanish 2 DE credit.

Dual Credit: Earning credit for SPAN203 Intermediate Spanish at University of Maryland College Park
makes a student eligible for 165013 Spanish 2 DE credit.

**Spanish 2 Honors**

*Course Code:* 165193  
*Prerequisites:* Spanish 1; MSA Reading score at the advanced level; most recent PARCC Reading
Score at the Advanced Level  
*Credits:* 1.0 World Language; Weighted

This course is designed for identified selected highly able students who have met the prerequisites.
Lessons and units include activities and a writing component that will enhance students’ skills.

Textbook(s): *Espanol Santillana*, ISBN 9781622639496
**Spanish 2 Pre-Diploma Program**

**Course Code:** 165293  
**Prerequisites:** Spanish 1; MSA Reading score at the advanced level; most recent PARCC Reading Score at the Advanced Level  
**Credits:** 1.0 World Language; Weighted  
**Textbook(s):** TBA

**Spanish 3**

**Course Code:** 166003  
**Prerequisites:** Spanish 2  
**Credits:** 1.0 World Language  
By the third level of Spanish students are required to use the language in class conversations and read both fiction and nonfiction, including magazines and newspapers. Learning of vocabulary is greatly expanded. Some supplementary reading is required. Basic grammar is reviewed and more complex structure is taught. Cultural projects are to be carried out in the foreign language. Students are expected to write coherent paragraphs, short summaries, and outlines in foreign language.  
Frequent testing of listening and reading comprehension is expected in this course.  
**Textbook(s):** *Espanol Santillana*, ISBN 9781622639533  
Dual Credit: Earning credit for SPN 2010 Intermediate Spanish at Prince George’s Community College makes a student eligible for 166013 Spanish 3 DE credit.

**Spanish 4**

**Course Code:** 167003  
**Prerequisites:** Spanish 3  
**Credits:** 1.0 World Language  
In the level 4 Spanish course, students are expected to use the language in conversation, class discussions, in oral and written reports and research projects. Reading includes literary works, social and cultural material, magazines, and newspapers from the foreign country. Grammar is reviewed, and the finer points are analyzed through work with original compositions, summaries, reports, advanced exercises, and some translation activities. The aim is greater precision in self-expression. Students are expected to understand and write from dictation material heard for the first time. The use of the foreign language in school-wide and community projects is encouraged.  
**Textbook(s):** *Espanol Santillana*, ISBN 9781622639571  
Dual Credit: Earning credit for SPN 2020 Intermediate Spanish at Prince George’s Community College makes a student eligible for 167013 Spanish 4 DE credit.

**Advanced Placement Spanish Language and Culture**

**Course Code:** 168203  
**Prerequisites:** Spanish 4; Application and orientation session  
**Credits:** 1.0 World Language, Weighted  
The College Board’s Advanced Placement Program for Spanish 5 will provide course work, written assessments, and practical experiences culminating in the AP Spanish exam.  
**Textbook(s):** *Abriendo Puertas: Lecturas y Temas*, ISBN: 9780328954391 and College Board materials
Advanced Placement Spanish 6 Literature
Course Code: 168303
Prerequisites: Spanish 5; Application and orientation session
Credits: 1.0 World Language, Weighted
The College Board’s Advanced Placement Program for Spanish 6 will provide course work, written assessments, and practical experiences culminating in the AP Spanish exam.
Textbook(s): College Board Materials

Spanish 7
Course Code: 168113
Prerequisites: Spanish 6
Credits: 1.0 World Language, Weighted
Spanish 7 is a content-based course rather than a skill acquisition course. The skills and grammatical knowledge acquired in levels 1-6 are to be used to fulfill creative, cultural, and research projects. The main thrust of the course is to extend the study of literature and to develop stronger proficiency in speaking, writing, and reading Spanish.
Textbook(s): Antología de la novela realista; Antología de la generación del 98; Escritos modernistas; Los mejores relatos fantásticos de habla hispana; Nuestra señora de la soledad

Spanish for Native Speakers Level 2
Course Code: 165203
Prerequisite: Native Spanish speaker
Credits: 1.0 World Language
This course is designed for students who are totally bilingual in Spanish and English. It is conducted entirely in Spanish for students who speak and read Spanish at the intermediate-low to mid level. The course will emphasize reading and writing, critical thinking, culture, literary exposure, and improving speaking skills.
Textbook(s): El espanol para nosotros, ISBN 9780021330485

Spanish for Native Speakers Level 3
Course Code: 166203
Prerequisite: Spanish proficiency test
Credits: 1.0 World Language
This course is designed for students who are totally bilingual in Spanish and English. It is conducted entirely in Spanish for students who speak and read Spanish at the intermediate to advanced level. The course will emphasize reading and writing, critical thinking, culture, and literary exposure, and improving speaking skills.
Textbook(s): El espanol para nosotros, ISBN 9780021381999

Spanish for Native Speakers Level 4
Course Code: 167203
Prerequisite: Spanish proficiency test
Credits: 1.0 Elective
This course is designed for students who are totally bilingual in Spanish and English. It is conducted entirely in Spanish for students who speak and read Spanish at the advanced level. The course
will emphasize reading and writing, critical thinking, culture, and literary exposure and improving speaking skills.

Textbook(s): *El espanol para nosotros*, ISBN 9780021381999

**Linguistics**

Course Code: 198100  
Prerequisites: Academy program student  
Credits: 0.5 Elective

This course is designed for the International Relations and the Global Studies Academy. It provides an view of the history of linguistics, how one acquires language, the nature of communication, and the anthropology of linguistics. Beginning with Historical Linguistics, students will learn how languages are related, how long a language takes to reappear, disappear, and change. The students will discuss how the language is acquired. During this course, the students will also study the significance of phonology, morphology, syntax, semantics, and how does one become bilingual. They will discuss the nature of and the different types of communication.

Textbook(s): *A Concise Introduction to Linguistics*, 9780205051816

**Study Abroad**

Course Code: 198203  
Prerequisite: Study Abroad Seminar  
Credits: 1.0 Elective

The Study Abroad experience for the Global Studies students will provide the necessary proficiency skills in the language for the students to be able to communicate in the target language. The students will be immersed in the language for six weeks living with a host family and visiting the language school. During the course the students will have the opportunity to learn, share and understand the perspectives and products of other cultures in order to enhance a global vision. The students will receive a final grade through a cumulative portfolio with activities, work samples, photos, a journal of the activities in the program, and attendance.

Textbook(s): None

**Study Abroad Seminar**

Course Code: 198200  
Prerequisite: Linguistics  
Credits: 0.5 Elective

This course is designed for the International Relations/Global Studies program. During this course, the students will study the code of conduct, financial literacy, health and safety information in order for the students to conduct themselves in a responsible and mature manner at all times while they are overseas. This course will prepare the students to study abroad and the students must attend every class session and complete their research work. Students will study all the cultural norms and prepare for the necessary document such as: passport, visa, immunizations, etc. in order to be ready for the study abroad experience.

Textbook(s): Global Studies Study Abroad Booklet

**World Language Conversational**

Course Code: 198210  
Prerequisite: None  
Credits: 0.5 Elective

This World Language course will provide listening and speaking opportunities for the students in the target language. This course will focus on communication skills including the three modes: interpersonal, interpretative, and presentational. The focus of this course will be for students to practice the target language through different oral activities in the World Languages lab.

Textbook(s): None
**World Language Writing**

Course Code: 198220  
Prerequisite: None  
Credits: 0.5 Elective

This World Language course will focus on writing in the target language. Students will write in ways that closely resemble the spoken language. During the class, students will develop the ability to write using more formal styles incorporating the Common Core Standards.

Textbook(s): None

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**World Languages - Immersion**

**French/Language Arts 9**

Course Code: 158713  
Prerequisites: French Immersion student  
Credits: 1.0 World Language

This required course will help students develop strategies for reading comprehension and will improve their vocabulary, language usage skills, and writing skills. Students will also use critical reading and thinking skills to analyze fiction (including novels) and non-fiction literary genres from world literature. Students will also engage in reading, writing, speaking and listening activities that are reflective of the College and Career Readiness Standards as well as the Maryland World-Readiness Standards for Learning Languages.


**French/Language Arts 10**

Course Code: 158723  
Prerequisites: French/Language Arts 9; French Immersion student  
Credits: 1.0 World Language

This required course builds on students’ abilities in reading, writing, listening and speaking through exploration of the guiding ideas or themes in a variety of fiction (including novels) and non-fiction literature. Elements of literature will be studied to enhance analysis and comprehension of texts. Students will also have reading and writing experiences, to include reading informational text. Students will also engage in reading, writing, speaking and listening activities that are reflective of the College and Career Readiness Standards as well as the Maryland World-Readiness Standards for Learning Languages.


**French/Language Arts 11**

Course Code: 158733  
Prerequisites: French/Language Arts 10; French Immersion student  
Credits: 1.0 World Language

This French Immersion 11th grade required course will help students develop strategies for reading comprehension and will improve their vocabulary, language usage skills, and writing skills. Students will also use critical reading and thinking skills to analyze fiction (including novels) and non-fiction literary genres from world literature. Students will also engage in reading, writing, speaking and listening activities that are reflective of the College and Career Readiness Standards as well as the
Maryland World-Readiness Standards for Learning Languages.

**French/Language Arts 12**

- **Course Code:** 158743
- **Prerequisites:** French/Language Arts 11; French Immersion student
- **Credits:** 1.0 World Language

This required French Immersion 12th grade course will help students develop strategies for reading comprehension and will improve their vocabulary, language usage skills, and writing skills. Students will also use critical reading and thinking skills to analyze fiction (including novels) and non-fiction literary genres from world literature. Students will also engage in reading, writing, speaking and listening activities that are reflective of the College and Career Readiness Standards as well as the Maryland World-Readiness Standards for Learning Languages.


**French Immersion Pop Culture 9**

- **Course Code:** 158773
- **Prerequisites:** French/Language Arts 9; French Immersion student
- **Credits:** 1.0 Elective

This course is designed to provide French Immersion students opportunity to build on reading, writing, listening and speaking through real-life connections and exploration of the Francophone world through videos, songs, and news.

Textbook(s): Ça va, Scholastic Magazines and Mome, Eli magazine

**French Immersion Pop Culture 10**

- **Course Code:** 158753
- **Prerequisites:** French/Language Arts 10; French Immersion student
- **Credits:** 1.0 Elective

This course is designed to provide French Immersion students opportunity to build on reading, writing, listening and speaking through real-life connections and exploration of the Francophone world through videos, songs, and news.

Textbook(s): Chez Nous, Scholastic Magazines and Jeunes, Eli Magazines.

**French Immersion Délibération (Public Speaking)**

- **Course Code:** 158763
- **Prerequisites:** French/Language Arts 10; French Immersion student
- **Credits:** 1.0 Elective

This French Immersion course will provide systematic strategies to increase critical thinking skills for deliberation in the classroom. Students will develop public speaking skills through a variety of classroom simulations for meaningful discussion about current information. The simulations include targeted content which provide students the opportunity to develop the art of asking the “right” questions, deliberating with reason, obtaining useful data as it relates to the real issues to formulate an informed point of view.

Textbook(s): Boîte À Outils Pour Le Peacebuilding À L’intention Des Éducateurs, ISBN 9781601271476
HIGH SCHOOLS

Academy of Health Sciences at PGCC .............................................................. 301-583-1593
Annapolis Road Academy .................................................................................. 301-209-3580
Bladensburg High ............................................................................................... 301-887-6700
Bowie High ........................................................................................................... 301-805-2600
Central High ......................................................................................................... 301-499-7080
Charles Herbert Flowers High ............................................................................ 301-636-8000
Chesapeake Math & IT Academy (CMIT North) ................................................ 240-767-4080
College Park Academy ....................................................................................... 240-696-3206
Community Based Classroom ......................................................................... 301-985-5149
Croom High ........................................................................................................ 301-372-8846
Crossland Evening High ..................................................................................... 301-449-4994
Crossland High .................................................................................................... 301-449-4800
DuVal High .......................................................................................................... 301-918-8600
Eleanor Roosevelt High ....................................................................................... 301-513-5400
Fairmont Heights High ....................................................................................... 301-925-1360
Frederick Douglass High ................................................................................... 301-952-2400
Friendly High ...................................................................................................... 301-449-4900
Green Valley Academy at Edgar Allan Poe ....................................................... 301-817-3100
Gwynn Park High ................................................................................................ 301-372-0140
Dr. Henry A. Wise, Jr. High .................................................................................. 301-780-2100
High Point High ................................................................................................... 301-572-6400
International High School at Langley Park ...................................................... 301-702-3910
Largo High .......................................................................................................... 301-808-8880
Laurel High ........................................................................................................... 301-497-2050
Northwestern Evening High ............................................................................... 301-985-1460
Northwestern High .............................................................................................. 301-985-1820
Oxon Hill High ..................................................................................................... 301-749-4300
Parkdale High ...................................................................................................... 301-513-5700
Potomac High ....................................................................................................... 301-702-3900
Suitland High ....................................................................................................... 301-817-0500
Surrattsville High ................................................................................................. 301-599-2453
Tall Oaks High ..................................................................................................... 301-390-0230
## PHONE DIRECTORY

Contact appropriate program personnel for further information. For updates to phone information, see the PGCPS phone directory online at www1.pgcps.org.

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<td>Advanced Technology Education</td>
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<td>Area 1 Office</td>
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<td><a href="http://www.dsd.state.md.us">www.dsd.state.md.us</a>; 800-633-9657</td>
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<td>College Career Research Development</td>
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<td>College Readiness (Dual Enrollment)</td>
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<td>Maryland State Department of Education</td>
<td><a href="http://www.marylandpublicschools.org">www.marylandpublicschools.org</a>; 888-246-0016</td>
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<td>Mathematics</td>
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