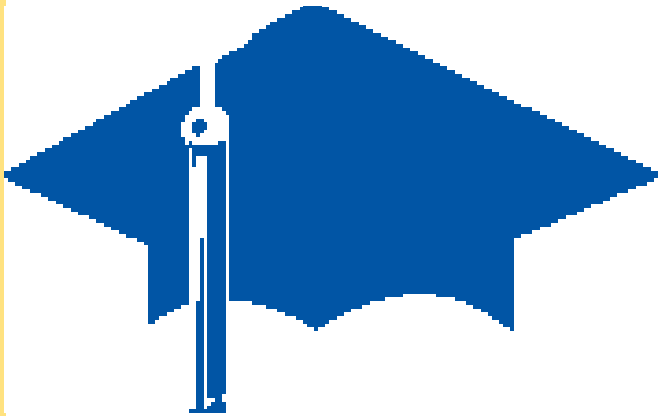


Courses and Programs of Study

HIGH SCHOOL
(GRADES 9-12)

Fall 2024



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 2024

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HOW TO USE THIS PUBLICATION

1. The courses listed make up the instructional program for the school system's high 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

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

Aeronautics Engineering Applications

Course Code: 991103

Prerequisites: Fundamentals of Aerospace and Aerospace Technology

Credits: 1.0 Advanced Technology Education

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.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

Textbook(s): None

Aerospace Practicum

Course Code: 800073

Prerequisites: Algebra 2; Successful completion of AEAT Requirements through grade 11, proficiency in Microsoft Office software applications

Credits: 1.0 Weighted; Elective

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): None

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

Aircraft Systems and Performance

Course Code: 991070

Prerequisites: AEAT: Introduction to Flight

Credits: .5 Elective

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): 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.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

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

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

Aviation Technology Research Practicum

Course Code: 991123

Prerequisites: This course is for senior AEAT students in the Aviation Technology major

Credits: 1.0 Elective, Weighted

The Technology Aviation Research Practicum is a one year course designed to assist aviation technology majors in the AEAT program to complete a research or design and development senior project from a specific internship experience. Requirements include STEM Fair Participation, writing of a 5-chapter thesis-type paper, and participation in the AEAT Research Practicum(RP) Symposium. Steps of the ATRP 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 display of both backboard and poster.

Textbook(s): None

Aviation Technology Internship

Course Code: 991133

Prerequisites: Must be approved by AEAT Coordinator and selected by AEAT Internship Panel Review Committee

Credits: 2.0 Elective

This course is designed to allow students time within the school day to conduct out-of-school internship under the guidance of an engineer, scientist or computer scientist in aviation technology. The internship must be at a research facility or approved work site. Students are at the research site 4 days a week and a minimum of 2 3/4 hours each day. One day each week, the student is on campus the entire day, assigned to the RP teacher and/or Coordinator for at least one class period. It is the expectation that the internship experience will provide the student with meaningful avenues to explore a topic that can be further developed in the Aviation Technology Research Practicum course. Each student in this internship 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.

Textbook(s): None

Flying Environment

Course Code: 991400

Prerequisites: Intro to Flight and Aircraft Systems

Credits: 1.0 Technology Education

This course is foundational for both manned and unmanned aviation, and will prepare students to take either of two Federal Aviation Administration tests: the Private Pilot Knowledge Test or the Part 107 Remote Pilot Knowledge Test. Topics include: pre-flight procedures, airspace, radio communications, aviation phraseology, regulations, airport operations, aviation safety, weather, cockpit management, and emergency procedures.

Textbook(s): Digital Resource

Flight Planning

Course Code: 991410

Prerequisites: *The Flying Environment*

Credits: 1.0 *Technology Education*

The Flight Planning course will cover remaining topics necessary for students to take the Federal Aviation Administration's Private Pilot Knowledge Test. Students will learn pilot and aircraft qualifications, cross-country flight planning, weight and balance, performance and limitations, human factors, chart use, night operations, navigation systems, and aeronautical decision making. Students will be provided the opportunity to participate in multiple practice examinations. At the end of this course, a school may choose to arrange for students to be signed off to take the Federal Aviation Administration's Private Pilot written exam.

Textbook(s): Digital Resource

Unmanned Aircraft Systems Operations

Course Code: 991420

Prerequisites: *The Flying Environment*

Credits: 1.0 *Technology Education*

The UAS Operations course will cover small unmanned aircraft performance, ethics, human factors, aeronautical decision-making and judgment, safety protocols, weight and balance, maintenance, aviation weather sources and effects of weather (micro-meteorology) on small unmanned aircraft performance, small unmanned aircraft loading and performance, emergency procedures, crew resource management, and preflight inspection procedures. Students will be provided the opportunity to participate in multiple practice examinations. Students will be prepared to complete the Federal Aviation Administration's Part 107 Remote Pilot Knowledge Test upon completion of this course.

Textbook(s): Digital Resource

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): None

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): *Human Factors in Aviation*, ISBN 9780123745187

Introduction to Flight

Course Code: 991060

Prerequisites: *Fundamentals of Aerospace Technology*

Credits: 0.5 Elective

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): None

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*

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): None

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): None

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): None

Career and Technical Education Programs of Study

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 Completer

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 Completer

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 Completer

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 Completer

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

ARTS, MEDIA, AND COMMUNICATION

PrintED GRAPHIC COMMUNICATIONS

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): None

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 Communications

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

BUSINESS AND FINANCE ACCOUNTING

Accounting Capstone

Course Code: 536003

Prerequisites: *Principles of Business Management and Entrepreneurship, Principles of Accounting and Finance, Grade 12*

Credits: 1.0 Accounting CTE Completer

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.

Textbook(s): *College Accounting, Chapters 1-30, 16th Edition, ISBN 9781260247909*

Advanced Accounting

Course Code: 535203

Prerequisites: *Principles of Business Management and Entrepreneurship, Principles of Accounting and Finance, Business Management & Finance Program, Grade 12*

Credits: 1.0 Accounting CTE Completer

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 and Quick Books will be used.

Textbook(s): *College Accounting, Chapters 1-30, 16th Edition, ISBN 9781260247909*

Principles of Accounting and Finance

Course Code: 553133

Prerequisites: *Principles of Business Management and Entrepreneurship, Business Management & Finance Program, Grade 11*

Credits: 1.0 Business Management CTE Completer

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.

Textbook(s): *College Accounting, Chapters 1-30, 16th Edition, ISBN 9781260247909*

Principles of Business Management and Entrepreneurship

Course Code: 553103

Prerequisites: Business Management and Finance Program, Grade 10

Credits: 1.0 Business Management CTE Completer

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

Dual Credit: Earning credit for BMT 1010 Introduction to Business at Prince George's Community College makes a student eligible for 553243 Business Management DE credit.

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, Marketing, 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 Management and Entrepreneurship*,
Business Management and Finance Program, Grade 11

Credits: 1.0 Business Administrative Services CTE Completer

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: *Principles of Business Management and Entrepreneurship, Principles of Accounting and Finance, Office Systems Management 1, Business Management & Finance Program Grade 12*

Credits: 1.0 *Business Administrative Services CTE Completer*

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. Check www1.pgcps.org/dual enrollment for dual credit updates.

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 Management and Entrepreneurship, Business Management & Finance Program Grade 11*

Credits: 1.0 *Business Management CTE Completer*

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.

Textbook(s): *College Accounting, Chapters 1-30, 16th Edition*, ISBN 9781260247909

Principles of Business Management and Entrepreneurship

Course Code: 553103

Prerequisites: *Grade 10 Business Management and Finance Program, Grade 10*

Credits: 1.0 *Business Management CTE Completer*

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

Dual Credit: Earning credit for BMT 1010 Introduction to Business at Prince George's Community College makes a student eligible for 553243 Business Management DE credit.

BUSINESS AND FINANCE BUSINESS MANAGEMENT

Advanced Business Management

Course Code: 553113

Prerequisites: *Principles of Business Management and Entrepreneurship, Principles of Accounting and Finance, Business Management & Finance Program Grade 11*

Credits: 1.0 Business Management CTE Completer

The Advanced Business Management 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: *Principles of Business Management and Entrepreneurship, Principles of Accounting and Finance, Advanced Business Management, Business Management & Finance Program Grade 12*

12

Credits: 1.0 Business Management CTE Completer

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

This course will provide students the opportunity to become completers in the Accounting, Business Management, Finance, Marketing, and Business Administrative Services strands. Students will spend a summer, semester or year in a department approved internship.

Textbook(s): None

Principles of Accounting and Finance

Course Code: 553133

Prerequisites: *Principles of Business Management and Entrepreneurship, Business Management & Finance Program Grade 11*

Credits: 1.0 Business Management CTE Completer

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.

Textbook(s): *College Accounting, Chapters 1-30, 16th Edition*, ISBN 9781260247909

Principles of Business Management and Entrepreneurship

Course Code: 553103

Prerequisites: *Business Management & Finance Program, Grade 10*

Credits: 1.0 Business Management CTE Completer

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

Dual Credit: Earning credit for BMT 1010 Introduction to Business at Prince George's Community College makes a student eligible for 553243 Business Management DE credit.

BUSINESS AND FINANCE BUSINESS MARKETING

Introduction to Marketing (3DE)

Course Code: 985103

Prerequisites: *Grade 12 3DE student*

Credits: 1.0 Business Marketing CTE Completer

This course introduces students to entrepreneurship, management and marketing for the Marketing program of study. This course will provide the fundamental entrepreneurship concepts, entrepreneurial process and examine the role of innovation in business development. This course will also provide the fundamental nature of marketing and the impact of marketing activities on the individual, business and society. This course will provide the foundational understanding of business concepts, management concepts, key terminology, and role of business in society.

Textbook(s): *Marketing, 5th Edition*, ISBN 9780357135747

BUSINESS AND FINANCE FINANCE - NAF ACADEMY OF FINANCE

Applied Finance - NAF

Course Code: 511160

Prerequisites: *Financial Services, Business Management & Finance - NAF Program, Grade 11*

Credits: 0.5 Finance-NAF CTE

Applied Finance - NAF 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 NAF Academy of Finance resources

Business Economics - NAF

Course Code: 540000

Prerequisites: *Applied Finance, Managerial Accounting, Business Management & Finance - NAF Program, 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): Online NAF Academy of Finance resources

Business in a Global Economy - NAF

Course Code: 511100

Prerequisites: *Finance-NAF CTE Program*

Credits: 0.5 Elective

Business in a Global Economy - NAF exposes students to the unique challenges facing firms doing business internationally—and to the potential opportunities and markets that are lost to firms that choose not to do business in the global marketplace. Building on concepts that were introduced in Principles of Finance, this course broadens student understanding of how businesses operate and how they grow and thrive in our ever-changing world.

Textbook(s): Online NAF Academy of Finance resources

Ethics in Business - NAF

Course Code: 511140

Prerequisites: *Business Economics; Business Management & Finance - NAF Program, Grade 12*

Credits: 0.5 Finance-NAF CTE

Ethics in Business - NAF 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 NAF Academy of Finance resources

Dual Credit: Earning credit for BMT 2660 Conflict Management at Prince George's Community College makes a student eligible for 541100 Ethics in Business DE credit

Financial Planning - NAF

Course Code: 576600

Prerequisites: *Principles of Finance, Business Management & Finance - NAF Program, Grade 10*

Credits: 0.5 Finance-NAF CTE

Financial Planning - NAF 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): Online NAF Academy of Finance resources

Dual Credit: Earning credit for BMT 1620 Financial Planning and Investments at Prince George's Community College makes a student eligible for 576610 Financial Planning DE credit.

Financial Services - NAF

Course Code: 510000

Prerequisites: *Financial Planning, Business Management & Finance - NAF Program, Grade 11*

Credits: 0.5 Finance-NAF CTE

Financial Services - NAF 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 resources

Internship

Course Code: 500010, 500013

Prerequisites: *Successful completion of three credits of Business Program of Study courses*

Credits: 0.5 - 1.0 Elective

Internship will provide students the opportunity to become completers in the Accounting, Business Management, Finance, Marketing, and Business Administrative Services strands. Students will spend a summer, semester or year in a department approved internship.

Textbook(s): None

Managerial Accounting - NAF

Course Code: 511130

Prerequisites: *Principles of Accounting, Business Management & Finance - NAF Program, 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): Online NAF Academy of Finance resources

NAF Entrepreneurship

Course Code: 511150

Prerequisites: *Finance-NAF CTE 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): Online NAF Academy of Finance resources

Principles of Accounting - NAF

Course Code: 511000

Prerequisites: *Financial Planning, Business Management & Finance - NAF 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): Online NAF Academy of Finance resources

Dual Credit: Earning credit for ACC 1001 Principles of Accounting I at Prince George's Community College makes a student eligible for 511200 Principles of Accounting DE credit.

Principles of Finance - NAF

Course Code: 511110

Prerequisites: *Business Management & Finance - NAF Program, Grade 10*

Credits: 0.5 Finance-NAF CTE

Principles of Finance - NAF 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 NAF Academy of Finance resources

CONSTRUCTION AND DEVELOPMENT CARPENTRY

Construction Core

Course Code: 871613

Prerequisites: *Construction Program Admission*

Credits: 1.0 CTE 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, and Basic Rigging. Basic Rigging covers the slings, hardware hoists, and hitches used in rigging operations, critical safety issues, and accepted rigging techniques and practices. The course provides hands on experiences in each of the trades areas Carpentry, Electrical, HAVAC, Masonry, and Plumbing, so that students can gain a working knowledge of the construction industry.

Textbook(s): NCCERCONNECT 2.0 with Pearson eText -- Access Card -- For Core Curriculum Trainee Guide, ISBN: 9780134235929

Carpentry 1

Course Code: 871623

Prerequisites: *Construction Core*

Credits: 1.0 Carpentry CTE Completer

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 Level 1*, NCCERCONNECT 2.0 with Pearson eText--Access Card, ISBN: 9780134205083

Carpentry 2

Course Code: 871723

Prerequisites: *Carpentry 1*

Credits: 4.0 Carpentry CTE Completer

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. Students also apply their knowledge and skills by participating in the Student Built House project.

Textbook(s): *Carpentry Level 2*, NCCERCONNECT 2.0 with Pearson eText - Access Card, ISBN: 9780134428086

Multi-Craft Core

Course Code: 871773

Prerequisites: *The course is for seniors only and by application only at High Point High*

Credit: 1.0 CTE Elective

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 CTE 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 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 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

Dual Credit: Earning credit for ENT 1600 Introduction to CAD with Auto CAD at Prince George's Community College makes a student eligible for 871553 3D Modeling DE

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 focuses on building codes and standards, coordination of the construction process, estimating, planning and scheduling; and site management. Students complete a portfolio of their design and construction management projects for review by an industry panel.

Textbook(s): Online through Towson University

Dual Credit: Earning credit for ENT 1600 Introduction to CAD with Auto CAD at Prince George's Community College makes a student eligible for 871533 -Advanced Design & 3D Modeling DE

CONSTRUCTION AND DEVELOPMENT ELECTRICAL

Construction Core

Course Code: 871613

Prerequisites: *Construction Program Admission*

Credits: 1.0 *CTE 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, Introduction to Blueprints, and Basic Rigging. Basic Rigging covers the slings, hardware hoists, and hitches used in rigging operations, critical safety issues, and accepted rigging techniques and practices. The course provides hands on experiences in each of the trades areas, Carpentry, Electrical, HVAC, Masonry, and Plumbing, so that students can gain a working knowledge of the construction industry.

Textbook(s): NCCERCONNECT 2.0 with Pearson eText -- Access Card -- For Core Curriculum Trainee Guide, ISBN: 9780134235929

Electrical 1

Course Code: 871643

Prerequisites: Construction Core

Credits: 1.0 Electrical CTE Completer

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 theoretical concepts used in Ohm's law applied to DC series circuits maintenance of electrical test equipment raceways boxes, and fittings conductors blueprints focus on electrical prints drawings and symbols in schematics and commercial industrial and residential. Successful completion of all modules leads to industry certification through NCCER.

Textbook(s): *Electrical Level 1*, NCCER,CONNECT 2.0 - Student Access Card, ISBN: 9780134812328

Electrical 2

Course Code: 871733

Prerequisites: Electrical 1

Credits: 4.0 Electrical CTE Completer

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, NEC regulations, mechanical, hydraulic and electrical benders, selecting and sizing boxes and fittings, installing cable trays, 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*, NCCERCONNECT 2.0 - Student Access Card, ISBN: 9780134812441

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

Construction Core

Course Code: 871613

Prerequisites: Construction Program Admission

Credits: 1.0 CTE 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, Introduction to Blueprints, and Basic Rigging. Basic Rigging covers the slings, hardware hoists, and hitches used in rigging operations, critical safety issues, and accepted rigging techniques and practices. The course provides hands on experiences in each of the trades areas, Carpentry, Electrical, HVAC, Masonry, and Plumbing, so that students can gain a working knowledge of the construction industry.

Textbook(s): NCCERCONNECT 2.0 with Pearson eText -- Access Card -- For Core Curriculum Trainee Guide, ISBN: 9780134235929

HVAC 1

Course Code: 871663

Prerequisites: Construction Core

Credits: 1.0 Heating, Ventilation & AC CTE Completer

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.

Textbook(s): *HVAC Level I*, NCCERCONNECT 2.0 - Student Access Card, ISBN: 9780135187036

HVAC 2

Course Code: 871743

Prerequisites: HVAC 1

Credits: 4.0 Heating, Ventilation & AC CTE Completer

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, NCCERCONNECT 2.0 - Student Access Card, ISBN 9780135187159*

CONSTRUCTION AND DEVELOPMENT MASONRY

Construction Core

Course Code: 871613

Prerequisites: Construction Program Admission

Credits: 1.0 CTE 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, Introduction to Blueprints, and Basic Rigging. Basic Rigging covers the slings, hardware hoists, and hitches used in rigging operations, critical safety issues, and accepted rigging techniques and practices. The course provides hands on experiences in each of the trades areas, Carpentry, Electrical, HVAC, Masonry, and Plumbing, so that students can gain a working knowledge of the construction industry..

Masonry 1

Course Code: 871683

Prerequisites: Construction Core

Credits: 1.0 Masonry CTE Completer

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, 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.

Textbook(s): *Masonry Level I Third Edition, ISBN 9780133754025; E-text Fourth Edition, ISBN 9780134683065,*

Masonry 2

Course Code: 871753

Prerequisites: Masonry 1

Credits: 4.0 Masonry CTE Completer

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; E-text Fourth Edition, ISBN 9780134745497*

CONSTRUCTION AND DEVELOPMENT PLUMBING

Construction Core

Course Code: 871613

Prerequisites: Construction Program Admission

Credits: 1.0 CTE 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, Introduction to Blueprints, and Basic Rigging. Basic Rigging covers the slings, hardware hoists, and hitches used in rigging operations, critical safety issues, and accepted rigging techniques and practices. The course provides hands on experiences in each of the trades areas, Carpentry, Electrical, HVAC, Masonry, and Plumbing, so that students can gain a working knowledge of the construction industry.

Textbook(s): NCCERCONNECT 2.0 with Pearson eText -- Access Card -- For Core Curriculum Trainee Guide, ISBN: 9780134235929

Plumbing 1

Course Code: 871703

Prerequisites: Construction Core

Credits: 1.0 Plumbing CTE Completer

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 1*, NCCERCONNECT 2.0 with Pearson eText - Student Access Card, ISBN: 9780134226644

Plumbing 2

Course Code: 871763

Prerequisites: *Plumbing 1 and Construction Core*

Credits: 4.0 Plumbing CTE Completer

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*, NCCERCONNECT 2.0 with Pearson eText - Student Access Card, ISBN: 9780134226668

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 Completer

This course teaches basic 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 expected to purchase a student kit and uniform at the beginning of this course.

Textbook(s): *Milady Standard Barbering, 6th Edition* ISBN 9781305100558

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 Completer

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. There is also an instructional focus on developing workplace readiness skills and preparing students for real-world application.

Textbook(s): *Milady Standard Barbering, 6th Edition* ISBN 9781305100558

Barbering 3

Course Code: 884133

Prerequisites: Barbering 2

Credits: 2.0 Barbering/Hairstyling CTE Completer

This course provides students the opportunity to further refine and apply skills that support all aspects of the barbering industry. In this course students participate in a supervised work-based learning experience in a barbershop, earning up to 250 hours. The work-based learning experience 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. Students must take this course concurrently with Barbering Internship, pass all courses, and take the Maryland State Board Barbering Examination prior to graduation.

Textbook(s): *Milady Standard Barbering, 6th Edition* ISBN 9781305100558

Barbering Internship

Course Code: 884183

Prerequisites: Barbering 2, Concurrent enrollment in Barbering 3

Credits: 1.0 Barbering/Hairstyling CTE

This supervised work-based learning experience in a shop setting is designed to provide students the opportunity to further refine and apply their skills. Students participate in up to 300 hours of work-based experiences that is 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 must take this course concurrently with Barbering 3.

Textbook(s): *Milady Standard Barbering, 6th Edition* ISBN 9781305100558

CONSUMER SERVICES, HOSPITALITY AND TOURISM COSMETOLOGY

Advanced Cosmetology

Course Code: 880303

Prerequisites: Pass Principles and Practices of Cosmetology 2 with a 'C' or better;
Meet clock hour requirements

Credits: 2.0 Cosmetology CTE Completer

This course allows students to develop and practice more advanced techniques in the field of cosmetology.

The instructional focus is 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.

Textbook(s): *Milady Standard Cosmetology*, 13th Edition ISBN 9781285769417

Mastery of Cosmetology

Course Code: 880403

Prerequisites: Pass *Advanced Cosmetology* with a 'C' or better; Meet clock hour requirements

Credits: 2.0 *Cosmetology CTE Completer*

This course assists in further preparing students to take the State Board of Cosmetologists' licensing examination, obtain employment, and advance in the field of cosmetology upon passing the licensing examination. Students must pass all courses and take the Maryland State Board of Cosmetologists' Examination prior to graduation. Students must take this course concurrently with Cosmetology Internship.

Textbook(s): *Milady Standard Cosmetology*, 13th Edition ISBN 9781285769417

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 Completer*

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, and earn a minimum minimum of 370 clock hours during this course. Learn how science and math are fundamental aspects of the practice of cosmetology.

Textbook(s): *Milady Standard Cosmetology*, 13th Edition ISBN 9781285769417

Principles and Practice of Cosmetology 2

Course Code: 880203

Prerequisites: Pass *Principles and Practices of Cosmetology 1* with a 'C' or better; Meet clock hour requirements

Credits: 2.0 *Cosmetology CTE Completer*

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.

Textbook(s): *Milady Standard Cosmetology*, 13th Edition ISBN 9781285769417

CONSUMER SERVICES, HOSPITALITY AND TOURISM AMERICAN CULINARY FEDERATION CULINARY ARTS

Culinary Basics: Foundations of Professional Cooking

Course Code: 684513

Prerequisites: Grade 11 *Culinary Arts* student

Credits: 2.0 *Culinary Arts CTE Completer*

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 uniform along with slip-resistant shoes. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Culinary Essentials*, ISBN 9780078883590

Edition ServSafe Manager, 7th edition, ISBN 9781582803319

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 Completer

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 Completer

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 9780137338368

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 Completer

This course continues to build on the foundation concepts and techniques from the Culinary Basics course. Students are be 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 Completer

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. In addition, students meeting all program requirements may be eligible for the Certified Fundamentals Cook Certification.

Textbook(s): *On Cooking*, ISBN 9780138118501

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 Completer

The culinary arts internship is optional but highly recommended. 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.

Textbook(s): *On Cooking*, ISBN 978013811501 or *On Baking*, ISBN 9780137338638

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 Completer

This course provides an introduction to the food service and hospitality industry. Students develop an understanding of 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 certification. Students can begin to accrue hours to meet the 400 hour work-based learning experience requirement. Up to 150 of the 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 Second Edition*, ISBN 9781582803357, *ServSafe Manager*, 7th edition, ISBN 9781582803319

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 Completer

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, monitored work-based learning experience and can continue to accrue hours to meet the 400 hour work based learning experience requirement. All students enrolled in this course must take the National Restaurant Association Educational Foundation end-of course exam and must also be enrolled in ProStart Internship.

Textbook(s): Foundations of Restaurant Management & Culinary Arts: Level 2 Second Edition, ISBN 9781582803425

ProStart Internship

Course Code: 684703

Prerequisites: Grade 12 ProStart student; Concurrent enrollment in ProStart 2; teacher approval

Credits: 2.0 CTE 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

ENVIRONMENTAL, AGRICULTURAL, & NATURAL RESOURCES CURRICULUM FOR AGRICULTURAL SCIENCE EDUCATION (CASE) ANIMAL SCIENCE

Agricultural Research and Development Capstone

Course Code: 491053

Prerequisites: Enrolled in Animal and Plant Biotechnology

Credits: 1.0 Environmental Science Pioneers CTE Completer

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 resources

Animal and Plant Biotechnology

Course Code: 491043

Prerequisites: Principles of Agricultural Science

Credits: 1.0 Environmental Science Pioneers CTE Completer

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): Online CASE4Learning resource

Introduction to Agricultural, Food, and Natural Resources

Course Code: 491003

Prerequisites: None

Credits: 1.0 *Environmental Science Pioneers CTE Completer*

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 resources

Principles of Agricultural Sciences - Animal

Course Code: 491033

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

Credits: 1.0 *Environmental Science Pioneers CTE Completer*

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): Online CASE4Learning resources

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 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*

Credits: 1.0 *Environmental Science Pioneers CTE Completer*

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 Completer*

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 resources

Introduction to Agriculture, Food, and Natural Resources

Course Code: 491003

Prerequisites: *None*

Credits: 1.0 *Environmental Science Pioneers CTE Completer*

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 resources

Natural Resources and Ecology

Course Code: 490703

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

Credits: 1.0 *Environmental Science Pioneers CTE Completer*

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 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 resources

HEALTH AND BIOSCIENCES

PROJECT LEAD THE WAY (PLTW) - BIOMEDICAL SCIENCES

Biomedical Innovation

Course Code: 979813

Prerequisites: *Principles of the Biomedical Sciences; Human Body Systems; Medical Interventions*

Credits: 1.0 *Biomedical Sciences CTE - Weighted Completer*

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 resources

Human Body Systems

Course Code: 979973

Prerequisites: *Principles of the Biomedical Sciences*

Credits: 1.0 *Biomedical Sciences CTE Completer*

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 resources

Medical Interventions

Course Code: 979803

Prerequisites: *Principles of Biomedical Sciences, Human Body Systems*

Credits: 1.0 *Biomedical Sciences CTE - Weighted Completer*

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. 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 resources

Principles of Biomedical Sciences PLTW

Course Code: 868103

Prerequisites: Enrolled in Biomedical Science Program; concurrent enrollment in Biology

Credits: 1.0 Biomedical Sciences CTE Completer

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. 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 resources

HEALTH AND BIOMEDICAL SCIENCES HEALTH PROFESSIONS

Allied Health Internship

Course Code: 980053

Prerequisites: Foundations of Medical and Health Science; Structure and Functions of the Human Body; Medical Specialty course; and Enrolled in Health Professions Program

Credits: 1.0 Health Professions CTE Completer

Students who have completed the first two courses in the Health Professions program may enroll in this internship course. Students participating in this 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 healthcare; 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; complete a research paper and present it to a panel of industry representative; and be supervised by an instructor or work-based learning agreement.

Textbook(s): None

Certified Nursing Assistant

Course Code: 980073

Prerequisites: Enrolled in Health Professions Program; Foundations of Medical and Health Science; Structure and Functions of the Human Body

Credits: 1.0 Health Professions CTE Completer

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 Assisting – A Foundation in Caregiving 6th Edition*, ISBN 9781604251548

Clinical Internship

Course Code: 980043

Prerequisites: *Foundations of Medical and Health Science; Structure and Functions of the Human Body; Certified Nursing Assistant Specialty course; and Health Professions Programs*

Credits: 2.0 Health Professions CTE Completer

The Clinical Internship is designed to give students supervised practical application of previously studied theory. It is required for students to earn the industry credential in the Certified Nursing Assistant program. The Clinical Internship may have to meet specific guidelines set by a third party -- Maryland Board of Nursing.

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

Clinical Medical Assistant

Course Code: 980083

Prerequisites: *Enrolled in Health Professions Program; Foundations of Medicine and Health Sciences; Structure and Function of the Human Body*

Credits: 1.0 Health Professions CTE Completer

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

Foundations of Medical and Health Science

Course Code: 979963

Prerequisites: *Enrolled in Health Professions Program, Biology*

Credits: 1.0 Health Professions CTE Completer

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

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 Health Professions and Biomedical Science Programs. 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

Pharmacy Technician

Course Code: 980063

Prerequisites: *Enrolled in Health Professions Program; Foundations of Medicine and Health Sciences*

Structure and Function of the Human Body

Credits: 1.0 Health Professions CTE Completer

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.

Textbook(s): *Pharmacy Technician: A Comprehensive Approach*, ISBN 9781435499591

Structure and Functions of the Human Body

Course Code: 979983

Prerequisites: *Enrolled in Health Profession Program; Foundations of Medicine and Health Sciences; Biology; Concurrent enrollment in Chemistry*

Credits: 1.0 Health Professions CTE Completer

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

EARLY CHILDHOOD EDUCATION Child Development Associate

Child Growth and Development (Birth through Adolescence)

Course Code: 686123

Prerequisites: *Grade 9 or 10; Accepted by application and Enrolled in Preschooler CDA Program*

Credits: 1.0 CTE Completer

This course focuses on child development birth through adolescence with emphasis on preschool development. Theories of development, the role of caregivers, family, health, safety and contemporary issues will be introduced. Students will explore special challenges to growth and development and will have opportunities for guided observation of children in a variety of settings. Students will begin to compile artifacts and written competency statements that are aligned with the required Child Development Associate (CDA) portfolio guidelines for preschool. Students will explore career pathways in Early Childhood Education and Child Care.

Textbook(s): *Child Development Early Stages through Adolescence*

Learning Environment for Preschoolers

Course Code: 686133

Prerequisites: *Child Growth and Development (Birth through Adolescence) required, Grade: 11 Enrolled in Preschooler CDA Program*

Credits: 1.0 CTE Completer

The course focuses on learning environments for preschool care. Students will discover the relationship of health, nutrition, and safety to learning. They will establish and maintain a safe, healthy learning environment that provides appropriate mealtime experiences and promotes good nutrition for preschool care. Students will continue to explore physical, intellectual, communication, and creative competencies for preschool child-care. The preschool classroom environment will support social and emotional development, and provide opportunities for positive guidance. Students will continue to develop components of a professional CDA Preschool portfolio.

Textbook(s): *CDA Essentials for Working with Young Children 3rd Edition Textbook and Workbook 3rd Edition*

Establishing a Purposeful Program for Preschoolers

Course Code: 686143

Prerequisites: *Child Growth and Development (Birth through Adolescence) required, Grade: 11 Enrolled in Preschooler CDA Program*

Credits: 1.0 CTE Completer

The course focuses on establishing positive, responsive and cooperative relationships with families. Students will explore the local social service, health and education resources of the community and be able to recommend home activities to support preschool development. Students will observe, document and assess preschool development and use multiple sources of evidence to set goals and develop lesson plans accordingly. Students will become familiar with local child care regulations and adhere to professional mandated reporting requirements related to abuse and neglect. Students will continue to develop components of a professional CDA Preschool portfolio.

Textbook(s): CDA Essentials for Working with Young Children 3rd Edition Textbook and Workbook 3rd Edition

Child Development Associate Portfolio and Internship

Course Code: 686163

Prerequisites: *Child Growth and Development - Birth through Adolescence, Learning Environment for Preschoolers, Establishing a Purposeful Program for Preschoolers - ALL required*

Credits: 4.0 CTE Completer

The internship is the culminating course of the Preschooler Child Development Associate (CDA) Program of Study. This course provides opportunities for students to link course content to theory in early childhood education preschool care as well as apply knowledge in the preschool classroom setting. Students will complete the CDA Preschool professional portfolio, prepare for the CDA proficiency exam and site visitation.

Textbook(s): CDA® Competency Standards Book: Preschool Edition (Center-Based, Working with children ages 3-5 years old)

Child Growth and Development 1

Course Code: 686103

Prerequisites: *Grade 10 Child Growth and Development pathway student Not accepting new students*

Credits: 1.0 CTE 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. Students may start to document hours toward the 90 Clock Hour and State Senior Staff Certification.

Textbook(s): Working with Young Children, ISBN 9781635637250

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 Completer

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 and may be eligible to receive articulated college credit from a local college, as well as, earn the 90 Clock Hour Certification to their work location.

Textbook(s): Working with Young Children, ISBN 9781635637250

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 CTE

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 and may be eligible to receive articulated college credit from a local college, as well as, earn the 90 Clock Hour Certification.

Textbook(s): *Working with Young Children*, ISBN 9781635637250

HUMAN RESOURCE SERVICES

JUNIOR RESERVE OFFICERS' TRAINING CORPS (JROTC)

AIR FORCE JROTC PROGRAM - AEROSPACE SCIENCE

Aerospace Science 1

Course Code: 999100, 999103

Prerequisites: Agreement to meet military uniform, grooming and discipline standards

Credits: 0.5, 1.0; 1.0 CTE Human Resource Services - JROTC Completer

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 military uniform, grooming and discipline standards; Instructor approval

Credits: 1.0 CTE Human Resource Services - JROTC Completer

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

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 military uniform, grooming and discipline standards*

Instructor approval

Credits: 1.0 CTE Human Resource Services - JROTC Completer

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 military uniform, grooming and discipline standards*

Instructor approval; May be used as the third course in JROTC course completer sequencel

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: 991293

Prerequisites: SASI Approval; May be used as the third course in JROTC course completer sequence

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.

Textbook(s): Aviation Fundamentals (Jeppesen & Sanderson), Private Pilot Manual (Jeppesen), Federal Aviation Regulations (FAR) / Airman Information Manual (AIM), Approved FAA written test question bank, Airman Knowledge Study Guide, Aeronautical Charts, SP-4 Flight Plotter, CPU-26A/P, Flight Navigation Computer, Supplemental Video Series: Private Pilot Lessons.

Aerospace Science 6

Course Code: 999913

Prerequisites: SASI Approval; May be used as the third course in JROTC course completer sequence

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.

*Text: Aviation Fundamentals (Jeppesen & Sanderson), Private Pilot Manual (Jeppesen), Federal Aviation Regulations (FAR) / Airman Information Manual (AIM), Airman Knowledge Study Guide, Supplemental Video Series: Private Pilot Lessons**

Interactive Computer Practice tests. Flight Simulator: Simulator flight lessons, (6) eight individual computer graded simulator lessons

HUMAN RESOURCE SERVICES

JUNIOR RESERVE OFFICERS' TRAINING CORPS (JROTC)

ARMY JROTC PROGRAM - LEADERSHIP, EDUCATION AND TRAINING

Army JROTC (Leadership, Education and Training 1)

Course Code: 998000, 998003

Prerequisites: Agreement to meet military uniform, grooming and discipline standards

Credits: 0.5 , 1.0; 1.0 CTE Human Resource Services - JROTC Completer

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 military uniform, grooming and discipline standards

Instructor approval

Credits: 1.0 CTE Human Resource Services - JROTC Completer

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 military uniform, grooming and discipline standards

Instructor approval

Credits: 1.0 CTE Human Resource Services - JROTC Completer

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 military uniform, grooming and discipline standards; May be used as the third course in JROTC course completer sequence

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 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

HUMAN RESOURCE SERVICES

JUNIOR RESERVE OFFICERS' TRAINING CORPS (JROTC)

NAVY JROTC PROGRAM - NAVAL SCIENCE

Naval Science 1

Course Code: 999500, 999503

Prerequisites: Agreement to meet military uniform, grooming and discipline standards

Credits: 0.5, 1.0; 1.0 CTE Human Resource Services - JROTC Completer

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 military uniform, grooming and discipline standards; Instructor approval

Credits: 1.0 CTE Human Resource Services - JROTC Completer

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 military uniform, grooming and discipline standards; Instructor approval

Credits: 1.0 CTE Human Resource Services - JROTC Completer

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 military uniform, grooming and discipline standards; Instructor approval; May be used as the third course in JROTC course completer sequence

Credits: 1.0 Elective; CTE Human Resource Services - JROTC Completer

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

HUMAN RESOURCE SERVICES

PUBLIC SAFETY ACADEMY

Introduction to Public Safety

Course Code: 997103

Prerequisites: Grade 9

Credits: 1.0 Elective

This course is designed to provide a rigorous academic foundation and career preparation for students interested in criminal justice, law enforcement, firefighting, emergency response, and other public safety related fields. Instruction will take place through an experiential, hands-on, project based program.

Textbook(s): *Introduction to Policing, 2nd Edition*, ISBN: 9781544339610; *Street Law: A Course in Practical Law, 9th Edition*, ISBN: 9780021429257

Public Safety 1

Course Code: 997113

Prerequisites: *Introduction to Public Safety*

Credits: 1.0 Elective

Public Safety 11 is the second course in the Public Safety Academy and prepares high school students for work in entry-level positions in public safety through classroom instruction, hands-on training and community experience. This course is designed to provide students with a working knowledge of the form and function of the American criminal justice system. Students will gain insight into the public safety services provided by the federal government.

Textbook(s): *Instructional Resources TBD*

HUMAN RESOURCE SERVICES

TEACHER ACADEMY OF MARYLAND

Education Academy Internship

Course Code: 689513

Prerequisites: Grade 12 Teacher Academy of Maryland pathway student;

Successful completion of Human Growth and Development through Adolescence, Teaching as a Profession; concurrent enrollment in Foundations of Curriculum and Instruction

Credits: 2.0 Teacher Academy CTE Completer

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 of Maryland 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 Completer

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

Human Growth and Development Through Adolescence

Course Code: 686403

Prerequisites: Accepted via CTE application to the Teacher Academy of Maryland pathway

Credits: 1.0 Teacher Academy CTE Completer

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 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 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 Teacher Academy of Maryland pathway student; *Human Growth and Development through Adolescence*

Credits: 1.0 Teacher Academy CTE Completer

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

HUMAN RESOURCE SERVICES - HOMELAND SECURITY AND EMERGENCY PREPAREDNESS

CRIMINAL JUSTICE AND LAW ENFORCEMENT

Foundations of Homeland Security and Emergency Preparedness

Course Code: 997003

Prerequisites: Homeland Security Academy program student

Credits: 1.0 Human Resources CTE Completer

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.

Textbook(s): Course utilizes Open Educational Resource

Administration of Justice 1

Course Code: 997053

Prerequisites: Foundations of Homeland Security and Emergency Preparedness

Credits: 1.0 Human Resources CTE Completer

This class introduces students to multiple aspects of law enforcement and the criminal justice system. Students explore the criminal process, forces that affect the enforcement of laws and the rights of citizens. Students in the Administration of Justice 1 course study the history of the legal system, the development of court system, the criminal justice process, the various external forces that impact the justice systems, the rights of citizens, and the role of ethics in the justice system. This course provides students an overview of the United States legal system and the process of criminal justice..

Textbook(s): Course utilizes Open Educational Resource

Administration of Justice 2

Course Code: 997063

Prerequisites: Administration of Justice 1

Credits: 1.0 Human Resources CTE Completer

The Administration of Justice 2 course focuses on law enforcement procedures, organized crime, street gangs, drug abuse, federal law enforcement agencies, the first responder role of law enforcement, corrections, the process of evidence collection and handling, and careers in the justice system. The students will recognize the everyday challenges and operations of law enforcement agencies with special attention to career potential and development.

Textbook(s): Course utilizes Open Educational Resource

Homeland Security/Capstone Experience

Course Code: 997033

Prerequisites: Homeland Security Science and Administration of Justice 2

Credits: 1.0 Homeland Security and Emergency Preparedness

Homeland Security Capstone experience is the culminating course for the 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, and Criminal Justice/ Law Enforcement, or Cyber-Security. Students have the option of completing an industry-mentored project, internship, or enrolling in a post-secondary course. 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): Course utilizes Open Educational Resources

HUMAN RESOURCE SERVICES - FIRE CADET AND EMERGENCY MEDICAL TECHNICIAN

Fire Emergency Medical High School Cadet I

Course Code: 988303

Prerequisites: None

Credits: 2.0 Fire Fighter & EMT CTE

This course prepares students to apply academic, technical knowledge and skills to a variety of settings within the firefighting response. This course is designed with lessons in fire behavior, safety, building construction, fire department equipment and tools. A partnership with Prince George's County Fire Department will provide practical hands-on experiences to prepare students for certifications (CPR, HAZMAT, and Incident Management Command Systems), required to proceed to Fire Fighter II.

Textbook(s): Textbooks and curriculum are developed and requirements for completion are governed by Maryland Fire Rescue Institute

Fire Emergency Medical High School Cadet II

Course Code: 988313

Prerequisites: Fire Fighter I & Fire Fighter I Seminar

Credits: 2.0 Fire Fighter & EMT CTE

This course prepares students to apply advanced academic knowledge, technical knowledge, and skills to a variety of settings within fire fighting and emergency response. This course is designed to acquaint students with various aspects of the firefighting professions through training in rope rescue, vehicle extrication, fire hydraulics, and truck company operations. Emergency Medical Service (EMS) training and certification is major part of the curriculum. EMS training and course work meets the National EMS education standard guidelines.

Textbook(s): Textbooks and curriculum are developed and requirements for completion are governed by Maryland Fire Rescue Institute

Fire Cadet Seminar I

Course Code: 988323

Prerequisites: Companion Course to Fire Fighter 1

Credits: 2.0 Completer

This course is a companion course to Fire Fighter I. This course will provide students with intensive assistance in the concepts, training, and skills on HZMAT, CPR, and First- Aid required by Maryland Fire and Rescue Institute that will be assessed and required to earn Fire Fighter I certification and successful completion of year one of the fire cadet program. This course prepares students with additional practice and instructor guided performance support to master skills, practical hands-on exercises, and pre-assessments for each of the Fire Fighter I certifications

Textbook(s): Textbooks and curriculum are developed and requirements for completion are governed by Maryland Fire Rescue Institute

Fire Cadet Seminar II

Course Code: 988333

Prerequisites: Fire Fighter 1 and Fire Fighter 1 Seminar

Credits: 2.0 Completer

This course is a companion course to Fire Fighter I. This course will provide students with intensive assistance in the concepts and skills required by Maryland Fire and Rescue Institute that will be assessed and required to earn Fire Fighter I certification and successful completion of year one of the fire cadet program. This course prepares students with additional practice and instructor guided performance support to master skills, practical hands-on exercises, and pre-assessments for each of the Fire Fighter I certifications

Textbook(s): Textbooks and curriculum are developed and requirements for completion are governed by Maryland Fire Rescue Institute

HUMAN RESOURCE SERVICES - HOMELAND SECURITY AND EMERGENCY PREPAREDNESS

HOMELAND SECURITY SCIENCE AND EMERGENCY PREPAREDNESS

Foundations of Homeland Security and Emergency Preparedness

Course Code: 997003

Prerequisites: None

Credits: 1.0 Homeland Security Sciences

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, and recovery.

Textbook(s): Course utilizes Open Educational Resources

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, and recovery.

Textbook(s): Course utilizes Open Educational Resources

Homeland Security Science Research Methods and Applications

Course Code: 997023

Prerequisites: Foundations of Homeland Security & Emergency Preparedness

Credits: 1.0 Homeland Security

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.

Textbook(s): Course utilizes Open Educational Resources

Homeland Security/Capstone Experience

Course Code: 997033

Prerequisites: Homeland Security Science, Administration of Justice 2

Credits: 1.0 Homeland Security

Capstone experience is the culminating course for the 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 or Cyber-Security. Students have the option of completing an industry-mentored project, internship, or enrolling in a post-secondary course. 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): Course utilizes Open Educational Resources

INFORMATION TECHNOLOGY

CISCO ACADEMY NETWORKING - CYBERSECURITY

CCNA 1: Introduction to CISCO Networking

Course Code: 886603

Prerequisites: Algebra 1, Geometry, or Algebra 2

Credits: 2.0 IT CISCO Cybersecurity CTE Completer

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 principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. This 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 their 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. Upon completion of this course, students will be able to: Configure a personal computer system, including the operating system, interface cards and peripheral devices; Plan and install a simple Ethernet network using routers and switches; Use command-line interface (CLI) commands to perform basic router and switch configurations; Troubleshooting network and Internet connectivity; Share resources such as files and printers among multiple computers; Recognize and mitigate security threats to a home network; and Utilize common network utilities to verify small network operations and analyze data traffic. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): Online resources

Dual Credit: Earning credit for INT 1460 CCNA 2 Routing Protocols or INT 1550 Introduction to Networks: Networks+ Prep at Prince George's Community College makes a student eligible for 886553 CCNA Routing DE credit.

CCNA 2: Routing and Switching Essential & Connecting Networks

Course Code: 886613

Prerequisites: CCNA 1: Introduction to CISCO Networking

Credits: 2.0 IT CISCO Cybersecurity CTE Completer

This course provides students with practical classroom and laboratory experience in current and emerging networking technology. It describes the architecture, components, and operations of routers and switches in a small network. This course emphasizes practical applications and a hands-on approach to learning networking in terms of implementation and career opportunities. Students will configure and troubleshoot routers and switches and resolve common issues with RIPv2, EIGRP, single-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. 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. Upon completion of this course, students will be able to: Understand basic switching concepts and the operation of Cisco switches: Install, configure and troubleshoot Cisco Internet Operating System (IOS) devices.; Configure and verify static and default routing; Configure and troubleshoot basic operations of routers in a small routed network; Configure and troubleshoot VLANs and inter-VLAN routing; Configure, monitor, and troubleshoot ACLs for IPv4 and IPv6; Configure a router as a DHCP server and client; Configure and troubleshoot NAT operations. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): Online resources

Dual Credit: Dual Credit: Earning credit for INT 2450 Switching Routing and Wireless Essentials at Prince George's Community College makes a student eligible for 886653 CCNA 2 Routing Switching DE credit.

Cybersecurity Essentials

Course Code: 886623

Prerequisites: CCNA 1: Intro to CISCO Networking and CCNA 2: Routing and Switching Essential & Connecting Networks

Credits: 1.0 IT CISCO Cybersecurity CTE Completer

This course combines Cisco's Introduction to Cybersecurity and Cybersecurity Essentials courses where students start by exploring the broad topic of cybersecurity in a way that matters to them. They learn how to protect their personal data and privacy online and in social media, and learn why more and more IT jobs require cybersecurity awareness and understanding. From there, they develop foundational understanding of cybersecurity and how it relates to information and network security. Students are introduced to the characteristics of cyber crime, security principles, technologies, and procedures to defend networks. Through interactive, multimedia content, lab activities, and multi-industry case studies, students build technical and professional skills to pursue careers in cybersecurity. Learn what cybersecurity is and what it means for you personally and professionally. Learn how to be safe online by understanding the most common threats, attacks and vulnerabilities. Find out how businesses protect their operations from cyber attacks and why jobs are growing. Study at your own pace and reinforce your understanding with activities and quizzes. Connect with the global Cisco Networking Academy community. Learn procedures to implement data confidentiality, integrity, availability and security controls on networks, servers and applications. Understand security principles and how to develop security policies that comply with cybersecurity laws. Apply skills through practice, using labs and Cisco Packet Tracer activities. Get immediate feedback on your work through built-in quizzes and tests. Connect with the global Cisco Networking Academy community.

Textbook(s): Online resources

CCNA Security

Course Code: 886633

Prerequisites: CCNA 1: Intro to CISCO Networking, CCNA 2: Routing and Switching Essential & Connecting Networks, and Cybersecurity Essentials

Credits: 1.0 IT CISCO Cybersecurity CTE Completer

CCNA Security prepares students to design, implement, and support security for networked devices. The course builds on CCNA 1 and CCNA2 and prepares students for Cisco Security certification. Students will know and be able to: Develop a working knowledge of network security principles, tools, and configurations. Study with an instructor in the classroom and access expert content online anytime. Practice what they learn using both real equipment and Cisco Packet Tracer, a network configuration simulation tool. Get immediate feedback on their work through built-in quizzes and tests. Prepare for the workplace with collaborative projects and presentations. Connect with the global Cisco Networking Academy community.

Textbook(s): Online resources

Dual Credit: Earning credit for INT 1620 Computer Security: Security +Prep at Prince George's Community College makes a student eligible for 886643 CCNA Security DE credit.

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 Computer Information Systems CTE Completer

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): Online resources

Dual Credit: Earning credit for INT 2200 Programming in Java at Prince George's Community College makes a student eligible for 867293 Computer Science A DE credit.

Advanced Placement Computer Science Principles

Course Code: 867343

Prerequisites: 867303 Foundations of Computer Science

Credits: 1.0 IT Computer Information Systems CTE Completer

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

Computing Tools and Environment

Course Code: 867373

Prerequisites: None

Credits: 1.0 IT Computer Information Systems CTE Completer

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): Online resources

Dual Credit: Earning credit for BSU CTEC 114 Computing Tools and Environment at Bowie State University makes a student eligible for 867433 Computing Tools and Environment DE credit.

Client Operating Systems

Course Code: 867383

Prerequisites: None

Credits: 1.0 IT Computer Information Systems CTE Completer

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 internet working with remote access service.

Textbook(s): Online resources

Dual Credit: Earning credit for BSU CTEC 214 Client Operating Systems at Bowie State University makes a student eligible for 867413 Client Operating Systems DE credit.

INFORMATION TECHNOLOGY

INTEGRATING TECHNOLOGY, ENGINEERING, AND COMPUTER SCIENCE (InTECS)

Software and Systems Engineering

Course Code: 864543

Prerequisites: AP Computer Science Principles

Credits: 1.0 Completer

This course will focus on engineering projects and designing software or products. Students will understand how to operate computers and execute tasks through code. Students will engage in the Informed design Process, software and system design, 2D/3D drafting and modeling, as well as understanding the inner workings of a computing system. Students will also begin to build a portfolio that will follow them throughout the program.

Textbook(s): None

Java Theory and Practice

Course Code: 864553

Prerequisites: Java Fundamentals

Credits: 1.0 Completer

This course engages students with little programming experience to create Java programs. Students are introduced to object-oriented programming concepts, terminology, and the steps required to create Java programs using the Alice, Greenfoot, and Eclipse interactive development environments. Students will learn the concepts of Java programming, standard algorithms, data structures, and design object-oriented applications with Java. Students will also create Java programs using hands-on engaging activities.

Textbook(s): None

Integrating Technology, Engineering and Computer Science Capstone InTECS

Course Code: 864563

Prerequisites: Successful completion of all previous courses in the InTECs program of study

Credits: 1.0 Completer

The Capstone InTECS is the last course of the program. Seniors will focus on how engineers apply creativity, STEM knowledge and skills, and refinement of technological products/systems. A key approach will be the employment of a sophisticated, iterative design and development process to solve authentic engineering tasks/problems. This program will allow students to participate as members of engineering teams within a business organization. Authentic engineering projects will be evaluated based on design, development, and marketing.

Textbook(s): None

INFORMATION TECHNOLOGY

ORACLE ACADEMY - DATABASE

Database Foundations

Course Code: 864513

Prerequisites: None

Credits: 1.0 IT Computer Information Systems CTE Completer

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): Online resources

Dual Credit: Earning credit for INT 2080 at Prince George's Community College makes a student eligible for 864463 Database Foundations DE credit.

Database Design and Programming with SQL

Course Code: 864203

Prerequisites: Database Foundations

Credits: 1.0 IT Computer Information Systems CTE *Completer*

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): Online resources

Dual Credit: Earning credit for INT 2081 Introduction to Oracle at Prince George's Community College makes a student eligible for 864183 Database Design 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 *Completer*

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): Online resources

Dual Credit: Earning credit for INT 2082 Advanced Oracle and PL/SQL at Prince George's Community College makes a student eligible for 864193 Database Programming DE credit.

Oracle Application Express - Application Development Foundations

Course Code: 864263

Prerequisites: Database Programming with PL/SQL

Credits: 1.0 Information Technology - Oracle Academy (Database) CTE *Completer*

Students learn techniques and tools required to develop database-driven web applications as well as how to design, develop, and deploy database-driven web applications using Oracle Application Express (APEX).

Textbook(s): Online resources

INFORMATION TECHNOLOGY

ORACLE ACADEMY - JAVA

Java Fundamentals

Course Code: 864503

Prerequisites: Algebra 1 - Recommended

Credits: 1.0 IT Computer Information Systems CTE Completer

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: Online resources

Java Foundations

Course Code: 864523

Prerequisites: Java Fundamentals

Credits: 1.0 IT Computer Information Systems CTE Completer

This course of study engages students with little programming experience. Students are introduced to object-oriented concepts, terminology, and syntax, and the steps required to create basic Java programs using hands-on, engaging activities. Students will learn the concepts of Java programming, design object-oriented applications with Java and create Java programs using hands-on, engaging activities.

Textbook(s): Online resources

Artificial Intelligence with Machine Learning in Java

Course Code: 864533

Prerequisites: Advanced Placement Computer Science A

Credits: 1.0 IT Computer Information Systems CTE Completer

This course of study builds on the skills gained by students in Java Foundations and Java Programming. Students are introduced to Machine Learning concepts within Artificial Intelligence and will learn terminology, syntax, and the steps required to create a Machine Learning solution in Java using hands-on, engaging activities.

Textbook(s): Online resources

INFORMATION TECHNOLOGY

MOBILE APPLICATIONS AND SOFTWARE DEVELOPMENT - APPLE

Develop in Swift: Introduction to Swift

Course Code: 867533

Prerequisites: Foundations of Computer Science

Credits: 1.0 IT Computer Information Systems CTE Completer

In this course, students learn key computing concepts, building a solid foundation in programming with Swift. Students will learn about the impact of computing and apps on society, economies, and cultures. The course also contains six Computational Thinking Practices that describe how students will explore the learning objectives, including Computational Solution Design, Algorithms and Program Development, Abstraction in Program Development, Code Analysis, Computing Innovations, and Responsible Computing.

Textbook(s): Online Resources

Develop in Swift: Fundamentals of Swift

Course Code: 867543

Prerequisites: *Develop in Swift: Introduction to Swift*

Credits: 1.0 IT Computer Information Systems CTE Completer

In this course, students build fundamental iOS app development skills with Swift. They will master the core concepts and practices that Swift programmers use daily and build a basic fluency in Xcode source and UI editors. Students will be able to create iOS apps that adhere to standard practices, including the use of stock UI elements and layouts.

Textbook(s): Online Resources

Develop in Swift: Data Collections in Swift

Course Code: 867553

Prerequisites: *Develop in Swift: Introduction to Swift, Develop in Swift: Fundamentals of Swift*

Credits: 1.0 IT Computer Information Systems CTE Completer

In this course, students expand on the knowledge and skills they developed in Fundamentals by extending their work in iOS app development, creating more complex and capable apps. They will work with data from a server and explore new iOS APIs that allow for much richer app experiences—including displaying large collections of data in multiple formats. Students learn new features of the iOS SDK to continue their app developer journey.

Textbook(s): Online Resources

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, geolocation, map view, and audio–video controls.

Textbook(s): Online resources

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): Online resources

Dual Credit: Earning credit for INT 2080 Fundamentals of Database Management at Prince George's Community College makes a student eligible for 864463 Database Foundations DE

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): Online resources

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 Server 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): Online resources

INFORMATION TECHNOLOGY IT SYSTEMS ENGINEERING

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): Online resources

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): Online resources

MANUFACTURING, ENGINEERING AND TECHNOLOGY PROJECT LEAD THE WAY (PLTW) ENGINEERING

Introduction to Engineering Design

Course Code: 867503

Prerequisites: None

Credits: 1.0 Completer

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 resources provided by Project Lead the Way*

Principles of Engineering

Course Code: 867403

Prerequisites: *Introduction to Engineering Design*

Credits: 1.0 Completer, Technology Education Credit

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 resources provided by Project Lead the Way*

Digital Electronics

Course Code: 867613

Prerequisites: *Introduction to Engineering, Principles of Engineering*

Credits: 1.0, Weighted; Completer

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 resources provided by Project Lead the Way*

Civil Engineering and Architecture

Course Code: 867713

Prerequisites: *Introduction to Engineering, Principles of Engineering, Digital Electronics*

Credits: 1.0, Weighted; Completer

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 plan.

Textbook(s): *Online resources provided by Project Lead the Way*

Aerospace Engineering

Course Code: 867933

Prerequisites: *Introduction to Engineering, Principles of Engineering, Digital Electronics*

Credits: 1.0, Weighted; Completer

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 resources provided by Project Lead the Way*

Engineering Design and Development

Course Code: 867813

Prerequisites: *Introduction to Engineering, Principles of Engineering, Digital Electronics, Aerospace Engineering or Civil Engineering and Architecture*

Credits: 1.0, Weighted; Completer

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 resources provided by Project Lead the Way*

PATHWAYS IN TECHNOLOGY EARLY COLLEGE HIGH SCHOOL (P-TECH)

HEALTH INFORMATION MANAGEMENT (HIM)

(Only available at Frederick Douglass High School)

Introduction to Information Technology DE (Year One)

Course Code: 864333

Prerequisites: *None; required course for HIM petition process for continued matriculation*

Credits: 1.0 (PGCPS), 4.0 (PGCC)

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): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 864333 Introduction to Information Technology DE credit makes a student eligible for INT 1010 Introduction to Information Technology (3 credits, Spring), and PAS 1000 Preparing for Academic Success (1 credit, Fall) at Prince George's Community College.

Anatomy and Physiology DE (Year Two)

Course Code: 492123

Prerequisites: BIO-1010 & completion of MAT-0071 (waived for P-TECH students); required course for HIM petition process for continued matriculation; 3 classes/3 lab hours.

Credits: 1.0 (PGCPS), 8.0 (PGCC)

Anatomy and Physiology is a laboratory-based course designed to provide students with 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: describe relationships between the structure and function that exist within the integumentary, skeletal, nervous, and muscular systems, analyze how the integumentary, skeletal, nervous, and muscular systems help the body maintain homeostasis, arrange anatomical structures into the different levels of anatomical organization (e.g., cellular level or organ level), and investigate the impact of diseases on certain systems. Extensive laboratory investigations to include connections and applications to Science, Technology, Engineering, Mathematics, and Medicine (STEMM) and individual research will be required.

Textbook(s): To be determined by Prince George's Community College (PGCC)

Dual Credit: Earning credit for 492123 Anatomy and Physiology DE makes a student eligible for credit BIO 2050 Human Anatomy and Physiology I (Fall, 4 credits), and BIO 2060 Human Anatomy and Physiology II (Spring, 4 credits) at Prince George's Community College.

Medical Terminology DE (Year Two)

Course Code: 980103

Prerequisites: None; required course for HIM petition process for continued matriculation

Credits: 1.0 (PGCPS), 3.0 (PGCC)

This course is an introduction to the language of medicine through usage, pronunciation, spelling, and plural formation as they relate to body systems. Emphasis is on the study of word roots, prefixes, suffixes, eponyms, standard abbreviations, and medical case studies. The use of medical terms in context and terminology related to cancer medicine, nuclear medicine, and pharmacology.

Textbook(s): To be determined by Prince George's Community College (PGCC)

Dual Credit: Earning credit for 980103 Medical Terminology DE makes a student eligible for HIM 1530 Medical Terminology (Fall, 3 credits) at Prince George's Community College.

Psychology DE (Year Two)

Course Code: 200010

Prerequisites: None; required course for HIM petition process for continued matriculation

Credits: 0.5 (PGCPS), 3.0 (PGCC)

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): To be determined by Prince George's Community College (PGCC)

Dual Credit: Earning credit for 200010 Psychology DE makes a student eligible for PSY 1010 General Psychology (Fall, 3 credits) at Prince George's Community College.

Financial Planning DE (Year Two: Summer)

Course Code: 576610

Prerequisites: None

Credits: 0.5 (PGCPS), 3.0 (PGCC)

This course presents a variety of units to assist 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): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 576610 Financial Planning DE makes a student eligible for BMT 1620 Financial Planning and Investments (Summer 3 credits)

Fundamentals of Health Information DE (Year Three)

Course Code: 980113

Prerequisites: *Successful completion of HIM petition process (PAS 1000, INT 1010, BIO 2050, BIO 2060, PSY 1010, HIM 1530)*

Credits: 1.0 (PGCPS), 4.0 (PGCC)

This course is an introduction to the health information departments, health care systems, and professional associations of the health information and informatics. Various aspects of information storage and retrieval systems, regulatory standards, the electronic health record, legal aspects, privacy requirements, and documentation requirements will also be examined. Students will also learn important skills that include presenting data as information, writing policies, and preparing professional reports.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 980113 Fundamentals of Health Information DE makes a student eligible for HIM-1500 Introduction to Health Information & Legal Aspects (Fall 2 credits), and HIM-1550 Human disease Processes and Pharmacology (Fall 2 credits)

Speech Interpersonal Communications DE (Year Three)

Course Code: 122303

Prerequisites: *None*

Credits: 1.0 (PGCPS), 3.0 (PGCC)

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. Check www.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 122303 Speech Interpersonal Communications DE is eligible for Prince George's Community College COM 1010 Introduction to Speech (Fall 3 credits) credit.

Health Care Delivery Systems DE (Year Three)

Course Code: 980123

Prerequisites: *Successful completion of HIM petition process (PAS 1000, INT 1010, BIO 2050, BIO 2060, PSY 1010, HIM 1530)*

Credits: 1.0 (PGCPS), 3.0 (PGCC)

This course is designed to introduce the student to health information requirements in settings other than acute care. Content will include accreditation, regulations, and reimbursement mechanisms as they relate to facilities such as hospice, home health, skilled and intermediate care, ambulatory care, mental health centers, dialysis, rehabilitation, managed care, correctional, dental, veterinary, and consulting.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 980123 Health Care Delivery Systems DE is eligible for Prince George's Community College HIM-1505 Healthcare Delivery Systems (Spring 3 credits) Online

*** *During Year Three, students will be concurrently enrolled in the following PGCC courses:*

1. *HIM-1550: Human Disease Processes and Pharmacology, 4 Credits (Fall)*
2. *HIM-1582: Principles and Practices of Medical Coding, 4 Credits (Spring)*
3. *HIM-1600: Principles and Applications of CPT, 2 Credits (Spring)*
4. *HIM-1540: Directed Clinical Practice I (Summer)*

English 12 DE (Year Four)

Course Code: 106513

Prerequisites: English 11

Credits: 1.0 (PGCPS), 3.0 (PGCC)

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.

Textbook(s): To be determined by Prince George's Community College (PGCC)

Dual Credit: Earning Credit for 106513 English 12 DE is eligible for Prince George's Community College EGL-1010 Composition 1 Expository Writing, EGL 1020...and not both (Fall 3 credits)

Introduction to Statistics DE (Year Four)

Course Code: 374003

Prerequisites: Algebra 2

Credits: 1.0 (PGCPS), 3.0 (PGCC)

This is an introductory course in statistics intended for students in a wide variety of areas of study. Topics discussed include displaying and describing data, probability, binomial and normal distributions, confidence intervals, hypothesis tests, and regression and correlation.

Textbook(s): To be determined by Prince George's Community College (PGCC)

Dual Credit: Earning Credit for 374003 Introduction to Statistics DE is eligible for Prince George's Community College MAT 1140 Introduction to Statistics (Fall 3 credits)

Statistics of Health Information DE (Year Four)

Course Code: 980133

Prerequisites: PGCC HIM-1600, Principles and Applications of CPT

Credits: 1.0 (PGCPS), 3.0 (PGCC)

In this course, students examine a variety of quality improvement models in healthcare. Students learn about statistical and predictive analysis as well as data quality. Additionally, graphical tools and statistical calculations are used to analyze data to communicate to administrators in healthcare. Students also learn how to create performance model reports that include both a visualization of the data and a narrative.

Textbook(s): To be determined by Prince George's Community College (PGCC)

Dual Credit: Earning Credit for 980133 Statistics of Health Information DE is eligible for Prince George's Community College for HIM 1510 or HIM-2515 Quality Improvement or Statistics for Health Professionals but not both (Fall 3.0 credits)

**** During Year Four, students will be concurrently enrolled in the following PGCC courses:*

- 1. HIM-2540 Principles and Applications of Medical Coding II (fall) Hybrid*
- 2. EGL 1320 Composition 2 Writing for Business (spring)*
- 3. HIM-2525 Database Management and Analytics for Healthcare Profession (spring)*
- 4. HIM-2525 Database Management and Analytics for Healthcare Profession (spring)*
- 5. HIM-2530 Health Information Management (spring)*
- 6. HIM-2580 Health Information Practicum III (spring)*

PATHWAYS IN TECHNOLOGY EARLY COLLEGE HIGH SCHOOL (P-TECH)

HOSPITALITY SERVICES MANAGEMENT (HSM)

(Only available at Frederick Douglass High School)

Introduction to Hospitality DE (Year One)

Course Code: 681413

Prerequisites: None

Credits: 1.0 (PGCPS), 3.0 (PGCC)

An introductory course on the different career choices available in the hospitality industry. It offers a broad spectrum of information on customers' perspectives, businesses, and roles in the industry. The focus will be on the unique characteristics associated with ownership, affiliation, customer service, and guest satisfaction, as well as the relationship between products versus service. Emphasis will be on aligning industry terms, core skills, and career opportunities in a variety of areas, for example: travel and tourism, lodging, gaming, restaurants, clubs, theme parks, special events, conferences, and managed services.

Textbook(s): To be determined by Prince George's Community College (PGCC)

Dual Credit: Earning credit for 681413 Introduction to Hospitality DE credit makes a student eligible for INT 1010 Introduction to Hospitality (3 credits, Spring), and PAS 1000 Preparing for Academic Success (1 credit, Fall) at Prince George's Community College.

Clinical Nutrition DE (Year Two)

Course Code: 684013

Prerequisites: reading readiness (waived for P-TECH students)

Credits: 1.0 (PGCPS), 3.0 (PGCC)

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): To be determined by Prince George's Community College (PGCC)

Dual Credit: Earning credit for 684013 Clinical Nutrition DE makes a student eligible for NTR-1010 Introduction to Nutrition (3 credits, Fall) at Prince George's Community College.

Hotel Operations Management DE

Course Code: 681453

Prerequisites: PGCC HSM-1510, Introduction to the Hospitality Industry

Credits: 1.0 (PGCPS), 3.0 (PGCC)

This course provides an overview of hotels. It focuses on service perspective, interdepartmental coordination, revenue management, and market issue influences in lodging management. Lectures examine business models, ownership structures, operational reports, competitive tactics, and skills on general management.

Textbook(s): To be determined by Prince George's Community College (PGCC)

Dual Credit: Dual Credit: Earning credit for 684153 Hotel Operations Management DE makes a student eligible for HSM-1621 Hotel Operations Management (3 credits, Spring) at Prince George's Community College.

Financial Planning DE (Year Two)

Course Code: 576610

Prerequisites: None

Credits: 0.5 (PGCPS), 3.0 (PGCC)

This course presents a variety of units to assist 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): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 576610 Financial Planning DE makes a student eligible for BMT 1620 Financial Planning and Investments (Summer 3 credits)

Food Service Operations DE (Year Three)

Course Code: 681433

Prerequisites: *PGCC HSM-1510, Introduction to the Hospitality Industry*

Credits: 1.0 (PGCPS), 3.0 (PGCC)

This course focuses on the management principles aligned with commercial and noncommercial food service operations. Topics include essential elements associated with market comparisons, menu development, customer service, standard cost analysis, and financial management. Discussions will incorporate both chain and independent establishments, to evaluate management structure and decisions associated with quality controls, supervision, facility designs, strategic management, and operational processes contingent upon classifications, service levels, and food products.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 681433 Food Service Operations DE makes a student eligible for HSM-1630 Financial Planning and Investments (Summer)

Speech Interpersonal Communications DE (Year Three)

Course Code: 122303

Prerequisites: *None*

Credits: 1.0 (PGCPS), 3.0 (PGCC)

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. Check www.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 122303 Speech Interpersonal Communications DE is eligible for Prince George's Community College COM 1010 Introduction to Speech (Fall 3 credits) credit.

Fundamentals of Meeting, Convention, and Event Management DE (Year Three)

Course Code: 681443

Prerequisites: *PGCC HSM-1510 Introduction to the Hospitality Industry*

Credits: 1.0 (PGCPS), 3.0 (PGCC)

This course addresses the basic concepts to meeting, convention, and event management. Studies center on size and scope, legal compliance, risk management, financial controls, and event implementation. Additionally, students will explore responsibilities related to and skills required to design, plan, market, and stage events. The focus is on introducing key issues, terms, action plans, and proactive approaches to event management. Discussions will offer insight to tools, techniques, and strategies to managing people, conflicts, logistics, and security in event management.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 681443 Fund of Meeting, Convention, and Event Management DE is eligible for Prince George's Community College HSM-1520 Fundamentals. of Meeting, Convention, and Event Management (Fall, 3 credits)*

* Completer course in the MSDE Approved Sequence

Sociology DE (Year Three)

Course Code: 290630

Prerequisites: Successful completion of HSM petition process (PAS1000, INT 1510, NTR 1010, HSM 1580, HSM 1621)

Credits: 0.5 (PGCPS), 3.0 (PGCC)

Survey of sociological concepts and their application to culture, socialization, social organizations, and social change. Social sciences general education class.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning credit for 290630 Sociology DE is eligible for Prince George's Community College SOC-1010 - Introduction to Sociology (Spring, 3 credits)

*** During Year Four, students will be concurrently enrolled in the following PGCC courses:

1. HSM-2050 - HR Mgmt./Train for Hosp & Tour (Spring)
2. HSM-2020 - Food/Bev. Purch/Cost Control (Spring)
3. HSM-2930 - Cooperative Ed (Summer)

English 12 DE (Year Four)

Course Code: 106513

Prerequisites: English 11

Credits: 1.0 (PGCPS), 3.0 (PGCC)

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.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning Credit for 106513 English 12 DE is eligible for Prince George's Community College EGL-1010 Composition 1 Expository Writing (Fall 3 credits)

Introduction to Statistics DE (Year Four)

Course Code: 374003

Prerequisites: Algebra 2

Credits: 1.0 (PGCPS), 3.0 (PGCC)

This is an introductory course in statistics intended for students in a wide variety of areas of study. Topics discussed include displaying and describing data, probability, binomial and normal distributions, confidence intervals, hypothesis tests, and regression and correlation.

Textbook(s): *To be determined by Prince George's Community College (PGCC)*

Dual Credit: Earning Credit for 374003 Introduction to Statistics DE is eligible for Prince George's Community College MAT 1140 Introduction to Statistics (Fall 3 credits)

*** During Year Four, students will be concurrently enrolled in the following PGCC courses:

1. EGL 1320 - Comp II: Writing for Business (Spring)
2. HSSM-1515 - Ldrship Dynamic in Hospitality (Fall)
3. HSM-1860 - Wedding Planning (Fall)
4. HSM-2760 - Hospitality Seminar (Spring)
5. HSM-1810 - Introduction to Travel and Tourism (Fall)
6. HSM-2530 - Hospitality Sales/Marketing (Spring)
7. HSM-2550 - Understanding Hospitality Law (Spring)
8. HSM-1550 - Food Serv Mgr Train/Cert (Spring)

TRANSPORTATION

AUTOMOTIVE BODY REPAIR

Auto Body Repair 1

Course Code: 872913, 872923, 872933, 872943

Prerequisites: Auto Body Repair Program of Study Student

Credits: 1.0 Automotive Body Repair Completer

This course is taught by an ASE (Automotive Service Excellence) certified teacher and provides basic knowledge and skills in the use of shop materials, equipment, tools, procedures, and manuals in the auto body and auto refinishing fields. Basic welding, aligning, roughing out, replacing and refinishing (painting) of auto body sheet metal, plastics, urethane, and composites are among the skills taught in this course. Fundamentals of auto body repair estimating are also taught. Students gain experience through theory and hands-on lab projects.

Textbook(s): *Autobody Repair Technology, 4th Edition*, ISBN 9780766862722

Auto Body Repair 2

Course Code: 872951, 872961, 872972, 872982

Prerequisites: Nonstructural Analysis & Damage Repair

Credits: 0.5 Automotive Body Repair Completer

Collision Repair Technology II students have the opportunity to develop their knowledge and skills through applied theory and hands-on shop projects. Students will apply what they have learned in Auto Collision Repair I on a daily basis. Students will have the ability to decide what area of auto collision repair they would like to pursue. Careers that students may enter include, but are not limited to: body repair technician, refinishing technician, automotive parts specialist, detail technician, damage estimator, and insurance adjuster. Students may also elect to go on to a post-secondary school or college to pursue further education.

Textbook(s): *Autobody Repair Technology, 4th Edition*, ISBN 9780766862722

TRANSPORTATION

AUTOMOTIVE TECHNICIAN

Automotive Mechanic/Technician 1

Course Code: 875913

Prerequisites: Enrollment in the Automotive Technician Program of Study; Take concurrently with Automotive Mechanic/Technician 2, 3, and 4

Credits: 1.0 Automotive Technician CTE Completer

This course is designed to teach the principles of automotive hydraulic brake systems. It builds on the essential laws of physics, motion, forces, hydraulics, thermodynamics, and chemical reactions and how these principles apply to the operation and diagnosis of automotive brake systems. This course covers the energy conversion of motion changed to heat energy (when you apply brakes), the effects of weight and speed on braking and stopping distance, thermal expansion, friction, force, and coefficient of friction as they apply to braking systems. Courseware covers the fundamentals and service of disc/drum brakes including how they operate, brake-fluid properties, diagnosis, component replacement/repair/adjustment, disc/drum machining, power-assist units, and the fabrication (ISO or double flaring) of brake lines. The content also covers computer-controlled anti-locking brake system (ABS) operation and diagnosis. The student is taught strategy-based diagnostic routines for interpreting and verifying customer concerns and proper operation. The student performs tests and inspections using special tools and scan tools to determine the cause of problems and make corrections related to hydraulic brakes and will communicate electronically with anti-lock brake systems (ABS). Through the inspection, testing, or measurement of components process, the student will be able to apply this knowledge to determine needed repairs and repair vehicle.

Textbook(s): *Modern Automotive Technology, 9th Edition*, ISBN 9781631263767

Automotive Mechanic/Technician 2

Course Code: 875923

Prerequisites: Enrollment in the Automotive Technician Program of Study; Take concurrently with Automotive Mechanic/Technician 1, 3, and 4

Credits: 1.0 Automotive Technician CTE Completer

This course is designed to teach the principles of automotive suspension/steering systems and 4-wheel suspension alignment. It builds on the concepts of geometry, gear reduction, hydraulics laws, and characteristics of liquids and how they apply to the operation and diagnosis of power steering and suspension systems. Steering column operation and diagnosis including supplemental restraint system service are included. Students learn strategy-based diagnostic routines to help interpret and verify customer concerns and proper operation and to perform tests and inspections to determine the causes and make corrections related to suspension/steering/wheel systems and alignment. Through the inspection, testing, or measurement of component processes, students will apply this knowledge to determine needed repairs and correctly repair a vehicle.

Textbook(s): *Modern Automotive Technology, 9th Edition*, ISBN 9781631263767

Automotive Mechanic/Technician 3

Course Code: 875933

Prerequisites: Enrollment in the Automotive Technician Program of Study; Take concurrently with Automotive Mechanic/Technician 1, 2, and 4

Credits: 1.0 Automotive Technician CTE Completer

This course is designed to teach the principles of automotive engine performance. This course covers distributor-less (electronic ignition) and distributor ignition systems, fuel management, exhaust emission control, and computer input and output signals and identifies the different types of sensors used by automotive engine computers. The student is taught to interpret and verify customer concerns, confirm proper operation, and perform maintenance and inspection using special tools. Courseware also covers diagnostic trouble codes (DTC) and access and use of electronic service information (ESI). The student learns to locate and interpret vehicle component identification numbers (VIN, vehicle certification labels, and calibration decals), check and adjust (where applicable) ignition system timing and timing advance/retard, emission component service, and computerized engine control system data and service.

Textbook(s): *Modern Automotive Technology, 9th Edition*, ISBN 9781631263767

Automotive Mechanic/Technician 4

Course Code: 875943

Prerequisites: Enrollment in the Automotive Technician Program of Study; Take concurrently with Automotive Mechanic/Technician 1, 2, and 3

Credits: 1.0 Automotive Technician CTE Completer

This course is designed to 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, 9th Edition*, ISBN 9781631263767

Automotive Mechanic/Technician 2 (Semesters 1 and 2)

Course Code: 875951, 875961, 875972, 875982

Prerequisites: Enrollment in the Automotive Mechanic/Technician Program of Study

Credits: 0.5 Automotive Technology CTE

This course is designed to teach the principles of electricity and electronics and apply them at the NATEF AST level. It builds on the measurement of electrical parameters, such as voltage, current, resistance, power, magnetism, electromagnetism, and magnetic induction to connect with Physical Science courses. Specific automotive systems covered include batteries, charging and starting systems, lighting, gauges, accessories, electronics, automotive computers and solid-state devices, along with communication systems. Students are taught how to apply electrical/electronic principles to repair car and truck electrical systems using a diagnostic strategy.

Textbook(s): Modern Automotive Technology, 9th Edition, ISBN 9781631263767

Automotive Mechanic/Technician 2 (Semesters 3 and 4)

Course Code: 875972, 875982

Prerequisites: Enrollment in the Automotive Mechanic/Technician Program of Study

Credits: 0.5 Automotive Technology CTE

This technical course is designed to teach the principles of electricity and electronics and apply them at the NATEF AST level. Specific automotive systems covered include batteries, charging and starting systems, lighting, gauges, accessories, electronics, automotive computers and solid-state devices, along with communication systems. Students are taught how to apply electrical/electronic principles to repair car and truck electrical systems using a diagnostic strategy.

Textbook(s): Modern Automotive Technology, 9th Edition, ISBN 9781631263767

TRANSPORTATION AUTOMOTIVE TECHNOLOGY MAINTENANCE

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 and make necessary NATEF required brake repairs tasks.

Textbook(s): Modern Automotive Technology, ISBN 9781590709566

Electrical and Electronic Systems

Course Code: english 9

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.

Textbook(s): Modern Automotive Technology, ISBN 9781590709566

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.

Textbook(s): Modern Automotive Technology, ISBN 9781590709566

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.

Textbook(s): Modern Automotive Technology, ISBN 9781590709566

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, Computer, Science, Engineering, or 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.

Students who entered high school in Fall 2020 or before may use this course as an Advanced Technology Education completer credit. (see AP 6150 Educational Requirements and Options).

Textbook(s): Online ITEEA resources

Advanced Technological Applications

Course Code: 812123

Prerequisites: Grades 10-12. Foundations of Technology is highly recommended

Credits: 1.0 Advanced Technology Education, Computer, Science, Engineering, or Technology Education

This course exposes students to and help them understand new and emerging technologies. The range of technological issues covered in this course can vary widely and content covered can be flexible. Topics covered may include, but are not limited to, lasers, fiber optics, robotics, and transportation technologies.

Students who entered high school in Fall 2020 or before may use this course as an Advanced Technology Education completer credit. (see AP 6150 Educational Requirements and Options).

Textbook(s): Online ITEEA resources

Engineering Design - ITEEA (Capstone)

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, Computer, Science, Engineering, or 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.

Students who entered high school in Fall 2020 or before may use this course as an Advanced Technology Education completer credit. (see AP 6150 Educational Requirements and Options).

Textbook(s): Online ITEEA 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.

Students who entered high school in Fall 2020 or before may use this course as an Advanced Technology Education completer credit.(see AP 6150 Educational Requirements and Options).

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.

Students who entered high school in Fall 2020 or before may use this course as an Advanced Technology Education completer credit.(see AP 6150 Educational Requirements and Options).

Textbook(s): Online resources

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

Business Communications 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

In Business Law 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.

Textbook(s): Business and Personal Law: Real-World Connections, ISBN 9780078743696

Business Law 2

Course Code: 542000

Prerequisites: 11th Grade student, Business Law 1

Credits: 0.5 Elective

In Business Law 2 students will gain an understanding of the law as it relates to them currently and the implication 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.

Textbook(s): Business and Personal Law: Real-World Connections, ISBN 9780078743696

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.

Textbook(s): Business Principles and Management, ISBN 9780538444682

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.

Textbook(s): *Integrated Computer Applications*, ISBN 9781111988098

Entrepreneurship 1

Course Code: 574400, 574403

Prerequisites: 11th Grade student

Credits: 0.5 or 1.0 Elective

Entrepreneurship 1 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.

Textbook(s): *How to Start and Operate a Small Business 10th Edition*, ISBN 9781890859183

Entrepreneurship 2

Course Code: 574503

Prerequisites: Successful completion of Entrepreneurship 1

Credits: 1.0 Elective

Entrepreneurship 2 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

First-Year Accounting 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): *College Accounting, Chapters 1-30, 16th Edition, ISBN 9781260247909*

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

Future Business Leaders of America 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

Insurance 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 resources

Web Page Design

Course Code: 521000

Prerequisites: None

Credits: 0.5 Elective

Web Page Design 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.

Textbook(s): *Web Design: Introductory, ISBN 978-1337277938*

CAREER AND TECHNICAL EDUCATION COMPUTER SCIENCE, ENGINEERING, or TECHNOLOGY EDUCATION

Advanced Placement Computer Science Principles

Course Codes: 867343

Prerequisites: None

Credits: 1.0 *Technology Education*

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

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): Online ITEEA resources

Dual Credit: Earning credit for INT 1010 Introduction to Information Technology at Prince George's Community College makes a student eligible for 864333 DE credit.

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): Online ITEEA resources

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

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): Online Resources

Foundations of Technology S/T

Course Code: 842093

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): ITEEA Online Resources

CAREER AND TECHNICAL EDUCATION ELECTIVES

College and Career Readiness Exploration

Course Code: 983020

Prerequisites: None

Credits: 0.5 Elective

This course is designed to expose students to the skills and competencies necessary to experience success in a career and technical education program of study as well as prepare them to make sound choices about college and career opportunities. Emphasis will be placed on acquiring industry-specific knowledge, technical employability skills, college and career awareness and exploration, basic financial literacy, expanded higher ordering thinking, and improved study skills. Students will also be engaged in a variety of strategies to improve and to enrich mathematical and literacy skills. Upon completion of this course, students will be required to present a written career plan and portfolio that reflects their designated area of study.

Textbook(s): None

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.

Textbook(s): Introduction to Homeland Security, ISBN 9780128020289

CAREER AND TECHNICAL EDUCATION EXPERIENTIAL LEARNING

Apprenticeship Maryland Program CRD 1

Course Number: 986013

Prerequisites: CTE Apprenticeship Coordinator Approval Required

Credits: 1.0 College Career Research & Development CTE Completer

Students are required to complete one year of related classroom instruction. The school system's CTE Apprenticeship 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 apprentice's plan. The collaboration between the Coordinator, work-based learning coordinator and employer are to design a realistic training plan that meets the needs of the apprenticeship.

Textbook(s): None

Apprenticeship Maryland Program CRD 2

Course Number: 986023, 986033, 986043

Prerequisites: Apprenticeship Maryland Program CRD 1

Credits: 1.0 College Career Research & Development CTE per course. Students must complete 450 hours on the job training (for 3 credits) along with the 986013 course to receive completer status in the program.

The on-the-job training 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 in coordination with the student, work based learning coordinator, and eligible employer.

Textbook(s): None

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

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): *Fashion*, ISBN 9781631264474

Fashion II (Advanced Sewing Skills)

Course Code: 683200

Prerequisites: Teacher approval and successful completion of Fashion 1

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): Fashion, ISBN 9781631264474

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.

Textbook(s): Fashion, ISBN 9781631264474

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.

Textbook(s): Fashion, ISBN 9781631264474

Financial Literacy for Teens

Course Code: 682700

Prerequisites: None

Credits: 0.5 Financial Literacy

This course presents a variety of units to assist 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): Foundations of Financial Literacy, ISBN 9781631261374, Online resources available

Advanced Financial Literacy

Course Code: 682710

Prerequisites: *Financial Literacy for Teens*

Credits: 0.5 Elective Grade 11 or 12

Advanced Financial Literacy is a .5 credit elective course for juniors and/or seniors who have completed the prerequisite graduation requirement Financial Literacy for Teens. Students learn how to confidently navigate everyday life - and its unexpected turns - by participating in simulation activities that mimic real-world financial decisions adults must navigate after high school. Topics include: creating a budget and financial plan for independence (housing, transportation, utilities, meals, etc.), managing debt and establishing credit, overcoming financial setbacks, building wealth, and retirement planning.

Textbook(s): None

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 the future. This course is highly recommended for students interested in the Food and Beverage Management (ProStart) or Culinary Arts state approved completer programs.

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) or Culinary Arts state approved completer programs.

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

Foundations of Education

Course Code: 686003

Prerequisites: *None*

Credits: 1.0 Elective

This course introduces and provides a foundation for students interested in a career as an educator. 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 and what teachers do. The course provides theory based views of educational history, teaching practices, various contexts of teaching and teacher and contemporary issues related to teacher education. This yearlong course is highly recommended for those students interested in The Teacher Academy of Maryland TAM or the Early Childhood Education program.

Textbook(s): *Teaching, ISBN 9781605252919*

Dual Credit: Earning credit for TED 2000 Found of Education makes a student eligible for 686013 Foundations of Education DE credit.

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 virtually.

Textbook(s): *Housing and Interior Design*, ISBN 9781631265679

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. This course is highly recommended for students interested in the Food and Beverage Management (ProStart) or Culinary Arts state approved completion programs.

Textbook(s): *Guide to Good Food: Nutrition and Food Preparation*, ISBN 9781631262258

CAREER AND TECHNICAL EDUCATION

Technical Academy

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

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.

Adaptive Ability Dance

Course Code: 723303

Prerequisites: None

Credits: 0.0

The Ability Dance Community Referenced Instruction course is designed to offer a creative movement based approach that will provide routine, structure, critical thinking and collaboration for CRI students. This class will allow CRI students to reach their maximum physical potential through movement with a centralized focus of the Elements of Dance. There will be an informal/formal performance presentation for all CRI students enrolled in this course.

Textbook(s): None

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

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 1A & 1B 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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

Dual Credit: Earning credit for DAN 1400 Dance Composition at Prince George's Community College makes a student eligible for 722303 Dance 3 DE credit

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

Dual Credit: Earning credit for DAN 1400 Dance Composition at Prince George's Community College makes a student eligible for 722303 Dance 3 DE credit

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

Dual Credit: Earning credit for DAN 1030 Dance History at Prince George's Community College makes a student eligible for 722403 Dance 4 DE credit.

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

Dual Credit: Earning credit for DAN 1030 Dance History at Prince George's Community College makes a student eligible for 722403 Dance 4 DE credit.

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance, ISBN: 9781450421904; History of Dance ISBN: 9781492536697; and Writing About Dance, ISBN: 9780736076104

Dance Production

Course Code: 708003

Prerequisites: None

Credits: 1.0 Fine Arts

In this course students will focus on preparing for college and a professional career in dance/technical theatre. This includes researching schools and the requirements for entry; analyzing & implementing productive time management skills; preparing solo choreography for auditions; organizing theatre crafts and techniques involved in dance production such as lighting, sound, costume design, set and costume design and construction, stage management, and finances. 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 2

Course Code: 708103

Prerequisites: *Dance Production*

Credits: 1.0 Fine Arts

In this course students will focus specifically on professional dance/technical theater skills to create, plan, operate and utilize all of the necessary skills to produce a professional performance. Students will take an in depth hands on approach to learning all of the roles and tasks that are required to produce a performance/show/event, analyzing and implementing productive time management skills; organizing theater crafts and techniques involved in dance production such as lighting, sound, costume design, set and costume design and construction, stage management, and finance planning. Production components and participation beyond the regular school day are required to support school and or county related performances and events. Participation in the set-up, duration of the performance/event and break-down of the theater components will count as an assessment grade. Students should have successfully completed Dance Production and should be recommended for Dance Production 2 by their Dance Teacher.

Textbook(s): *Dance Production: Design and Technology 1st Edition, ISBN 9781138795914*

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

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: Army JROTC; 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

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): None

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): None

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 Resources: 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

AVID Strategies for Success

Course Code: 591323, 591313

Prerequisites: Teacher placement

Credits: 1.0 Elective

This course is offered to identified 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): None

Co-Academic 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.

Textbook(s): *Nutrition: Concepts and Controversies*, Frances Sizer and Ellie Whitney, 2013

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 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): None

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

Peer Group Connection 2

Course Code: 056113

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

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 argument, narrative, and informative/explanatory essays. 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): *myPerspectives ELA Student Edition Grade 9 Volume 1*, ISBN 9780133338768; *myPerspectives ELA Student Edition Grade 9 Volume 2*, ISBN 9780133338775; *Brown Girl Dreaming*, ISBN 9780147515827; *They Called Us Enemy*, ISBN 9780147515827

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): *myPerspectives ELA Student Edition Grade 9 Volume 1*, ISBN 9780133338768; *myPerspectives ELA Student Edition. Grade 9 Volume 2*, ISBN 9780133338775; *Brown Girl Dreaming*, ISBN 9780147515827; *They Called Us Enemy*, ISBN 9780147515827

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 argument, narrative, and informative/explanatory essays. 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): *myPerspectives ELA Student Edition Grade 10 Volume 1*, ISBN 9780133338782; *myPerspectives ELA Student Edition Grade 10 Volume 2*, ISBN 9780133338799; *Internment*, ISBN 9780316522700; *Shadowshaper*, ISBN 9781338032475

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.

Textbook(s): *myPerspectives ELA Student Edition Grade 10 Volume 1*, ISBN 9780133338782; *myPerspectives ELA Student Edition Grade 10 Volume 2*, ISBN 9780133338799; *Internment*, ISBN 9780316522700; *Shadowshaper*, ISBN 9781338032475

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 argument, narrative, and informative/explanatory essay. 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): *myPerspectives ELA Student Edition Grade 11 Volume 1*, ISBN 9780133338805; *myPerspectives ELA Student Edition Grade 11 Volume 2*, ISBN 9780133338829; *Just Mercy*, ISBN 9780525580065; *The Poet X*, ISBN 9780062662811

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.

Textbook(s): *myPerspectives ELA Student Edition Grade 11 Volume 1*, ISBN 9780133338805; *myPerspectives ELA Student Edition Grade 11 Volume 2*, ISBN 9780133338829; *Just Mercy*, ISBN 9780525580065; *The Poet X*, ISBN 9780062662811

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 argument, narrative, and informative/explanatory essay. 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): myPerspectives ELA Student Edition Grade 12 Volume 1, ISBN 9780133338836; myPerspectives ELA Student Edition Grade 12 Volume 2, ISBN 9780133338843; The Other Wes Moore: One Name, Two Fates, ISBN 9780385528207; Born a Crime, ISBN 9780399588198; Purple Hibiscus, ISBN 9781616202415

Dual Credit: Earning credit for EGL 1010 Composition I: Expository Writing or EGL 1020 Composition 2: Writing about Literature at Prince George's Community College makes a student eligible for 106513 English 12 DE credit. (Check www1.pgcps.org/dualenrollment for dual credit updates.)

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: myPerspectives ELA Student Edition Grade 12 Volume 1, ISBN 9780133338836; myPerspectives ELA Student Edition Grade 12 Volume 2, ISBN 9780133338843; The Other Wes Moore: One Name, Two Fates, ISBN 9780385528207; Born a Crime, ISBN 9780399588198; Purple Hibiscus, ISBN 9781616202415

Academic Resource Support Class

Course Code: Grade 9: 142273

Grade 10: 142473

Grade 11: 142673

Grade 12: 142873

Prerequisites: None

Credits: 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 elective credit. An approved reading and/or math intervention may also be used in this course.

Instructional materials may include: An approved reading and/ or math intervention may also be used in this course. *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: 142293
 Grade 10: 142493
 Grade 11: 142693
 Grade 12: 142893

Prerequisites: None

Credits: 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 for elective credit. An approved reading and/or math intervention may also be used in this course.

Instructional materials may include: An approved reading and/ or math intervention may also be used in this course. *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 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.

Textbook(s): 50 Essays, A Portable Anthology, ISBN 9780312454029; The Language of Composition, ISBN 9780312450946; The AP Vertical Teaming Guide for English, The Bedford Handbook, ISBN 9780312419325; The Bedford Reader, ISBN 9780312404000; 5 Steps to a 5 AP English Language; Sound and Sense, Elements of Style, novels and additional materials as appropriate

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.

Textbook(s): 50 Essays, A Portable Anthology, ISBN 9780312454029; The Language of Composition, ISBN 9780312450946; The AP Vertical Teaming Guide for English, The Bedford Handbook, ISBN 9780312419325; The Bedford Reader, ISBN 9780312404000; 5 Steps to a 5 AP English Language; Sound and Sense, Elements of Style, novels and additional materials as appropriate

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.

Textbook(s): The Language of Composition, Reading, Writing, Rhetoric, ISBN 9780312450946; The Language of Composition, Reading, Writing, Rhetoric, ISBN 9780312473020; 50 Essays, A Portable Anthology, ISBN 9780312454029; The Bedford Handbook, ISBN 9780312419325; The Bedford Reader, ISBN 9780312404000; The AP Vertical Teaming Guide for English; Steps to a 5 AP English Language; Sound and Sense; Elements of Style; novels and additional materials as appropriate

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.

Textbook(s): 50 Essays, A Portable Anthology, ISBN 9780312454029; The Language of Composition, ISBN 9780312450946; The Bedford Handbook, ISBN 9780312419325; The Bedford Reader, ISBN 9780312404000; The AP Vertical Teaming Guide for English; 5 Steps to a 5 AP English Language; Sound and Sense, Elements of Style, novels and additional materials as appropriate

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): myPerspectives ELA Student Edition Grade 12 Volume 1, ISBN 9780133338836; myPerspectives ELA Student Edition Grade 12 Volume 2, ISBN 9780133338843

Dual Credit: Earning credit for EGL 2130 African American Lit. Pre 1800-1920 at Prince George's Community College makes a student eligible for 106640 African American Lit. 1 DE credit.

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): *myPerspectives ELA Student Edition Grade 12 Volume 1*, ISBN 9780133338836; *myPerspectives ELA Student Edition Grade 12 Volume 2*, ISBN 9780133338843

Dual Credit: Earning credit for EGL 2140 African American Literature: 1920-Present at Prince George's Community College makes a student eligible for 106650 African American Literature 2 Dual Enrollment

Latino-American Literature 1

Course Code: 106620

Prerequisites: English 9 and 10

Credits: 0.5 Elective

This course is a survey of writings by Latino authors. Students will examine and be challenged to think critically about identity, history and culture through the experiences and portrayals of Latino Americans in literature and nonfiction. 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. A range of genres will be studied.

Textbook(s): *myPerspectives, Elizabeth*, novels

Latino-American Literature 2

Course Code: 106630

Prerequisites: English 9 and 10

Credits: 0.5 Elective

This course is a survey of writings by Latino authors. Students will examine and be challenged to think critically about language, representation and culture as portrayed through the experiences of Latino Americans across a variety of genres and mediums. 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): *myPerspectives, I Am Not Your Perfect Mexican Daughter*, novels

Creative Writing

Course Code: 106670

Prerequisites: English 9

Credits: 0.5 Elective

The Creative Writing course is designed for students who enjoy writing as a form of art and personal expression. In this course, students will explore the elements of numerous literary genres (short fiction, poetry, drama, film) and the power of both print and multimedia formats. To develop original writing pieces, students will engage in writing workshops, literary element development lessons, writing/author studies, and peer reviews/conferences.

Textbook(s): *None*

English Composition

Course Code: 106680

Prerequisites: English 9, English 10

Credits: 0.5 Elective

The composition course is designed to develop writing skills for high school, college, and career. Various types of writing will be covered including business writing (resume and cover letter), college admissions essay, research-based writing and persuasive writing. Extension revision instruction and practice is integrated throughout the course, letting each student find and refine their unique voice.

Textbook(s): *The Bedford Handbook*, ISBN 9780312419325; *They Say / I Say*, novels and additional materials as appropriate

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 from the College Board

Critical Reading (PDP)

Course Code: 582093

Prerequisites: None

Credits: 1.0 Elective; Weighted

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.)

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

HIGH SCHOOL COURSE SEQUENCE FOR MULTILINGUAL LEARNERS SCHOOL YEAR 2024-2025 AND BEYOND

		Grade 9		Grade 10	Grade 11	Grade 12
ELD NEWCOMER*	English SIFE - No N grade - No	HS Newcomer English (semester 1) 136153	English 9 (semester 2)	English 10	English 11	English 12
	English SIFE - Yes (or No) N grade - No	HS Newcomer English (Full Year) 136153	English 9 (summer school)			
	English SIFE - Yes or No N grade - Yes	HS Newcomer English (semester 2) 136153	English 9 (summer school)			
	ELD	HS Newcomer ELD 135653		HS Beginner ELD	HS Intermediate ELD	HS Advanced ELD
	Social Studies	Language of American History		U.S. History II	Local, State, and National Government	World History
	Science***	Language of Science		Biogeochemical Systems	Biology	Either Physical Science or Earth and Space Science course to fulfill the graduation requirement
	Math	<ul style="list-style-type: none"> For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. Courses may include Applications in Mathematics, Geometry, Algebra 1 or higher. Mathematics is to be scheduled every year. 				
ELD BEGINNER	English	English 9		English 10	English 11	English 12
	ELD	HS Beginner ELD		HS Intermediate ELD	HS Advanced ELD	HS ELD Lang Lab 1
	Social Studies	U.S. History II		Local, State, and National Government	World History	-
	Science***	Biogeochemical Systems		Biology	Additional lab-based science class	-
	Math	<ul style="list-style-type: none"> For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. Courses may include Applications in Mathematics, Geometry, Algebra 1 or higher. Mathematics is to be scheduled every year. 				

See Next Page for ELD Intermediate and ELD Advanced, footnotes, and ELD levels.

HIGH SCHOOL COURSE SEQUENCE FOR MULTILINGUAL LEARNERS

SCHOOL YEAR 2024-2025 AND BEYOND CONTINUED

		Grade 9	Grade 10	Grade 11	Grade 12
ELD INTERMEDIATE	English	English 9	English 10	English 11	English 12
	ELD	HS Intermediate ELD	HS Advanced ELD	HS ELD Lang Lab 1	HS ELD Lang Lab 2
	Social Studies	U.S. History II	Local, State, and National Government	World History	-
	Science***	Biogeochemical Systems	Biology	Additional lab-based science course	-
	Math	<ul style="list-style-type: none"> • For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. • Courses may include Applications in Mathematics, Geometry, Algebra 1 or higher. • Mathematics is to be scheduled every year. 			
ELD ADVANCED	English	English 9	English 10	English 11	English 12
	ELD	HS Advanced ELD	HS ELD Lang Lab 1	HS ELD Lang Lab 2	
	Social Studies	U.S. History II	Local, State, and National Government	World History	-
	Science***	Biogeochemical Systems	Biology	Additional lab-based science course	-
	Math	<ul style="list-style-type: none"> • For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. • Courses may include Applications in Mathematics, Geometry, Algebra 1 or higher. • Mathematics is to be scheduled every year. 			

See Next Page for ELD LTML footnotes, and ELD levels.

HIGH SCHOOL COURSE SEQUENCE FOR MULTILINGUAL LEARNERS

SCHOOL YEAR 2024-2025 AND BEYOND CONTINUED

ELD LTML	English	English 9	English 10	English 11	English 12
	ELD	HS ELD Lang Lab 1	HS ELD Lang Lab 2		
	Social Studies	U.S. History II	Local, State, and National Government	World History	-
	Science***	Biogeochemical Systems	Biology	Additional lab-based science class	-
	Math	<ul style="list-style-type: none"> • For students new to the U.S., use the International Student Math Placement Test to determine initial course placement. • Courses may include Applications in Mathematics, Geometry, Algebra 1 or higher. • Mathematics is to be scheduled every year. 			

Students enrolled in BOLD ITALICIZED courses will take the Maryland Comprehensive Assessment Program (MCAP) Assessment associated with that content area course.

*English course placement is dependent upon Student with Interrupted Formal Education (SIFE) status, enrollment date (N Grade), and individual school master schedule. All students are only required to attain four (4) English credits for graduation which can include High School English Newcomer ELD.

**Grade 9 MLs are strongly encouraged to enroll in a World Language course in their home language.

***Science High School Graduation Requirement: The Maryland State Department of Education requires that all students who will graduate FY2020 and beyond must successfully pass three one-credit lab science courses, one in each of the following categories: Life Science, Earth and Space Science, and Physical Science.

****Only students in their first year in US schools and with a qualifying score on the International Math Placement Test should be scheduled into Applications in Mathematics; all others should be scheduled into Geometry or higher for Mathematics. Please refer to guidance from the PGCPs Mathematics Office for PGCPs Mathematics Course Sequence.

ELD Level	WIDA Screener or WIDA ACCESS Score
Newcomer	1.0-1.9
Beginner	2.0-2.9
Intermediate	3.0-3.9
Advanced	4.0-4.4

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): None

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

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

Health Education

Family Living

Course Code: 744300
Prerequisites: Health Issues or Health 1; 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, and relationships among friends, family, and in the work place. 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 Relationships, ISBN 9781631265761*

Health 1

Course Code: 744230
Prerequisites: None
Credits: 0.5 Health Education

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. All students are required to complete this Health 1 course to satisfy one half of the 1.0 credit graduation requirement. Students cannot earn credit for this course by examination. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Health, ISBN 9780021407071; Essential Health Skills for High School with Human Development, Relationships and Sexual Health Companion, ISBN 9798888179383*

Dual Credit: Earning credit for PGCC HLE 2300 Integrated Health and Physical Education or for HLE 1150 Personal and Community Health makes a student eligible for PGCCPS 744260 Health 1 DE credit.

Health 2

Course Code: 744240

Prerequisites: Health Issues or Health 1; Grades 11 or 12

Credits: 0.5 Health Education

In this semester course, students will use the introductory instruction from previous health courses to expand on the development of skills, attitudes, and behaviors that will enable them to make decisions that promote healthful behaviors. Students engage in inquiry and problem-solving approaches utilizing a developmentally appropriate progression of content related to health education concepts.

Textbook(s): None

Dual Credit: Earning credit for PGCC HLE 2260 Applied Personal and Community Health makes a student eligible for PGCCPS 744280 Health 2 DE credit.

Sports Medicine

Course Code: 747000

Prerequisites: Health Issues or Health 1; Grades 11 or 12

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.

Textbook(s): *Introduction to Sports Medicine and Athletic Training*, ISBN 9781401811990

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 or have already taken 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: Completion of Level One World Language

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 Life 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.

Textbook: *AP*, ISBN 9781471828997; *Biology for the Diploma Study - A Guide*, IB Source

International Baccalaureate Biology 2

Course Code: 421103

Prerequisites: IB Biology 1

Credits: 1.0 Life 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.

Textbook: *AP Edition*, ISBN 9781471828997; *Biology for the Diploma Study - A Guide*, IB Source

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 Physical 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 Physical 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 relatedness 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 Chinese 1

Course Code: 188503

Prerequisites: *Chinese 1, Chinese 2, and Chinese 3*

Credits: 1.0 World Language; Weighted

This is a first year course designed for students to demonstrate accuracy in the usage of listening, speaking, reading and writing language skills with an array of topics explored. Students are expected to 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(s): None

International Baccalaureate Chinese 2

Course Code: 188513

Prerequisites: *IB Chinese 1*

Credits: 1.0 World Language; Weighted

This is a second year course designed for students to demonstrate accuracy in the usage of listening, speaking, reading and writing language skills with an array of topics explored. Students are expected to 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(s): None

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): None

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): None

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 Environmental Systems and Society 1

Course Code: 491203

Prerequisites: Biology and one other Science Class

Credits: 1.0 Elective; Weighted

IB Environmental Systems and Society (ESS) is an interdisciplinary course. The course is a scientific exploration of environmental systems and an exploration of cultural, economic, ethical, political, and social interactions of societies with the environment. Students will be able to recognize and evaluate the impact of our complex system of societies on the natural world. The course requires a systems approach to environmental understanding and problem-solving, and promotes holistic thinking about environmental issues. It is recognized that to understand the environmental issues of the 21st century and suggest suitable management solutions,

both the human and environmental aspects must be understood. Students should be encouraged to develop solutions from a personal to a community and to a global scale.

Textbook(s): *IB Environmental Systems and Societies, 2015 edition*, ISBN 9780198332565

International Baccalaureate Environmental Systems and Society 2

Course Code: 491223

Prerequisites: *IB Environmental Systems and Society 1*

Credits: 1.0 Elective; Weighted

IB Environmental Systems and Society (ESS) is an interdisciplinary course. The course is a scientific exploration of environmental systems and an exploration of cultural, economic, ethical, political, and social interactions of societies with the environment. Students will be able to recognize and evaluate the impact of our complex system of societies on the natural world. The course requires a systems approach to environmental understanding and problem-solving, and promotes holistic thinking about environmental issues. It is recognized that to understand the environmental issues of the 21st century and suggest suitable management solutions, both the human and environmental aspects must be understood. Students should be encouraged to develop solutions from a personal to a community and to a global scale.

Textbook(s): *IB Environmental Systems and Societies, 2015 edition*, ISBN 9780198332565

International Baccalaureate Film 1

Course Code: 615213

Prerequisites: None

Credits: 1.0 Elective; Weighted

The Diploma Programme film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases in order to understand and value those of others.

Textbook(s): None

International Baccalaureate Film 2

Course Code: 615223

Prerequisites: *IB Film 1*

Credits: 1.0 Elective; Weighted

The DP film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases in order to understand and value those of others.

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.

Textbook(s): *Oxford University Press French B Course Companion*, ISBN 9780198424710

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; *Oxford University Press French B Course Companion*, ISBN 9780198424710

International Baccalaureate French Ab Initio 1

Course Code: 159113

Prerequisites: Level One of a World Language

Credits: 1.0 World Language; Weighted

This is a language acquisition course for the International Baccalaureate program designed for students with no prior experience of the target language, or for those students with very limited previous exposure. At the language ab initio level, a student develops receptive, productive and interactive communicative skills in order to communicate sufficiently about everyday domestic and global life topics. Throughout the course, not only will students be able to learn the language basics, but are also required to learn and explore cultural festivals, customs, lifestyle, rituals, etc.

Textbook: None

International Baccalaureate French Ab Initio 2

Course Code: 159123

Prerequisites: IB French Ab Initio 1

Credits: 1.0 World Language; Weighted

This is a language acquisition course for the International Baccalaureate program designed for students with no prior experience of the target language, or for those students with very limited previous exposure. At the language ab initio level, a student develops receptive, productive and interactive communicative skills in order to communicate sufficiently about everyday domestic and global life topics. Throughout the course, not only will students be able to learn the language basics, but you are also required to learn and explore cultural festivals, customs, lifestyle, rituals, and etc.

Textbook: None

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 social movements in the Americas, and Domestic and Foreign Policies of the Americas at the turn of the 20th Century.

Textbook(s): The American Pageant, ISBN 9780547166629; Latin American History, McDougall Littell, Defining Canada: History, Identify, and Culture, ISBN 9780547166629

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): None

International Baccalaureate Japanese B Ab initio 1

Course Code: 150403

Prerequisites: Grade 11 student; Japanese 3, Access to a Level One Japanese class

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 Japanese B Ab initio 2

Course Code: 150503

Prerequisites: Grade 12 student, IB Japanese B Ab initio 1 Completion, Access to a Level One Japanese class

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 Algebra 2

Course Code: 386103

Prerequisites: Algebra 1 and Geometry

Credits: 1.0 Mathematics; Weighted

This course has been evaluated and developed to meet the course requirements of a general Algebra 2 course and the year one requirements for the IB Mathematics Applications and Interpretations course. The course emphasizes the applied nature of the subject and is designed for students who wish to understand how mathematics relates to the real world and to other subjects. It will appeal to students who enjoy mathematics in a practical context. Students who take this course will be interested in developing their skills in solving practical problems, harnessing technology and exploring mathematical models. Topics explored include number and algebra looking at scientific notations, arithmetic and geometric sequences while solving systems of equations; functions creating, fitting and using models with quadratic, linear, exponential, natural algorithms, cubic and simple trigonometric functions; geometry and trigonometry; statistics and probability. This course is suitable for students who may go on to further study in subjects that utilize mathematics in this way such as social sciences, natural sciences, statistics, business, psychology or design.

Textbook: Mathematics: Applications and Interpretations, Standard Level, 1st Edition, Oxford University Press (2019)

International Baccalaureate Mathematics: Applications and Interpretations SL

Course Code: 386113

Prerequisites: Algebra 1, Geometry and Algebra 2

Credits: 1.0 Mathematics; Weighted

The Mathematics: Applications and Interpretations course has been developed to meet the requirements of the new IB Diploma Subject Guide. The course emphasizes the applied nature of the subject and is designed for students who wish to understand how mathematics relates to the real world and to other subjects. It will appeal to students who enjoy mathematics in a practical context. Students who take this course will be interested in developing their skills in solving practical problems, harnessing technology and exploring mathematical models. Topics explored include number and algebra looking at scientific notations, arithmetic and geometric sequences while solving systems of equations; functions creating, fitting and using models with linear exponential, natural algorithms, cubic and simple trigonometric functions; geometry and trigonometry; statistics and probability and calculus. This course is suitable for students who may go on to further study in subjects that utilize mathematics in this way such as social sciences, natural sciences, statistics, business, psychology or design.

Textbook: Mathematics: Applications and Interpretations, Standard Level, ISBN 9780198427100

International Baccalaureate Mathematics: Applications and Interpretations SL Year 2

Course Code: 386133

Prerequisites: Algebra 1, Geometry, Algebra 2, and IB Mathematics: Applications and Interpretations Year 1

Credits: 1.0 Mathematics; Weighted

The IB DP Mathematics: Applications and Interpretations Year 2 course has been developed to meet the requirements of the new IB Diploma Subject Guide. The second year course emphasizes the applied nature of the subject and is designed for students who wish to understand how mathematics relates to the real world and to other subjects. It will appeal to students who enjoy mathematics in a practical context. Students who take this course will be interested in developing their skills in solving practical problems, harnessing technology and exploring mathematical models. Topics explored include number and algebra looking at scientific notations, arithmetic and geometric sequences while solving systems of equations; functions creating, fitting and using models with linear exponential, natural algorithms, cubic and simple trigonometric functions; geometry and trigonometry; statistics and probability and calculus. This course is suitable for students who may go on to further study in subjects that utilize mathematics in this way such as social sciences, natural sciences, statistics, business, psychology or design.

Textbook: Mathematics: Applications and Interpretations, Standard Level, ISBN 9780198427100

International Baccalaureate Mathematics: Applications and Interpretations HL

Course Code: 386123

Prerequisites: Algebra 1, Geometry and Algebra 2

Credits: 1.0 Mathematics; Weighted

The Mathematics: Applications and Interpretations course has been developed to meet the requirements of the new IB Diploma Subject Guide. The course emphasizes the applied nature of the subject and is designed for students who wish to understand how mathematics relates to the real world and to other subjects. It will appeal to students who enjoy mathematics in a practical context. Students who take this course will be interested in developing their skills in solving practical problems, harnessing technology and exploring mathematical models. Topics explored include number and algebra looking at scientific notations, arithmetic and geometric sequences while solving systems of equations; functions creating, fitting and using models with linear exponential, natural algorithms, cubic and simple trigonometric functions; geometry and trigonometry; statistics and probability; the laws of logarithms, and calculus. This course is suitable for students who may go on to further study in subjects that utilize mathematics in this way such as social sciences, natural sciences, statistics, business, psychology or design.

Textbook: *IB Mathematics: Analysis and Approaches, Higher Level*, ISBN 9780198427162

International Baccalaureate Mathematics: Analysis and Approaches SL Year 1

Course Code: 386143

Prerequisites: Grade 11 or 12 student; Algebra 1, Geometry, Algebra 2 (Required)

Credits: 1.0 Mathematics; Weighted

The IB DP Mathematics: analysis and approaches course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. The focus is on developing important mathematical concepts in a comprehensible, coherent and rigorous way, achieved by a carefully balanced approach. Students apply their mathematical knowledge to solve abstract problems as well as those set in a variety of meaningful contexts. The course has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. Course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof.

Textbook: *IB Mathematics: Analysis and Approaches, Standard Level*, ISBN 9780198427100

International Baccalaureate Mathematics: Analysis and Approaches SL Year 2

Course Code: 386163

Prerequisites: Grade 11 or 12 student; *IB Mathematics: Analysis and Approaches SL Year 1*

Credits: 1.0 Mathematics; Weighted

The IB DP Mathematics: analysis and approaches course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. The focus is on developing important mathematical concepts in a comprehensible, coherent and rigorous way, achieved by a carefully balanced approach. Students apply their mathematical knowledge to solve abstract problems as well as those set in a variety of meaningful contexts. The course has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. Course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof.

Textbook: *IB Mathematics: Analysis and Approaches, Standard Level*, ISBN 9780198427100

International Baccalaureate Mathematics: Analysis and Approaches HL Year 1

Course Code: 386203

Prerequisites: Grade 11 or 12 student; IAlgebra 1, Geometry, Algebra 2 (Required)

Credits: 1.0 Mathematics; Weighted

The IB DP Mathematics: analysis and approaches course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. The focus is on developing important mathematical concepts in a comprehensible, coherent and rigorous way, achieved by a carefully balanced approach. Students apply their mathematical knowledge to solve abstract problems as well as those set in a variety of meaningful contexts. The course has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. Course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof.

Textbook: *IB Mathematics: Analysis and Approaches, Higher Level*, ISBN 9780198427162

International Baccalaureate Mathematics: Analysis and Approaches HL Year 2

Course Code: 386213

Prerequisites: Grade 11 or 12 student; IB Mathematics: Analysis and Approaches HL Year 1

Credits: 1.0 Mathematics; Weighted

The IB DP Mathematics: analysis and approaches course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. The focus is on developing important mathematical concepts in a comprehensible, coherent and rigorous way, achieved by a carefully balanced approach. Students apply their mathematical knowledge to solve abstract problems as well as those set in a variety of meaningful contexts. The course has a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. Course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture and proof.

Textbook: *IB Mathematics: Analysis and Approaches, Higher Level*, ISBN 9780198427162

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): None

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): None

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.

Textbook(s): None

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): None

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): None

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 Russian 1

Course Code: 186403

Prerequisites: Russian 1, Russian 2

Credits: 1.0 World Language; Weighted

This is a first year course designed for students to demonstrate accuracy in the usage of listening, speaking, reading and writing language skills with an array of topics explored. Students are expected to 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(s): None

International Baccalaureate Russian 2

Course Code: 186413

Prerequisites: IB Russian 1

Credits: 1.0 World Language; Weighted

This is a second year course designed for students to demonstrate accuracy in the usage of listening, speaking, reading and writing language skills with an array of topics explored. Students are expected to 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(s): None

International Baccalaureate Spanish 1

Course Code: 169003

Prerequisites: Grade 11; Spanish 1, 2, 3

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 Periodísticas; Conversación y Controversia; Oxford University Press, Spanish B Course Companion*, ISBN 9780198424741

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 Periodísticas; Conversación y Controversia; Oxford University Press, Spanish B Course Companion*, ISBN 9780198424741

International Baccalaureate Sports, Exercise and Health Science SL

Course Code: 498503

Prerequisites: Biology and Chemistry

Credits: 1.0 Life Science or Physical 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.

Textbook(s): Sports, Exercise and Health Science, Oxford University Press ISBN 9780198368434

International Baccalaureate Sports, Exercise and Health Science HL

Course Code: 498513

Prerequisites: IB Sports, Exercise and Health SL

Credits: 1.0 Life Science or Physical 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. The second year course examines sports training and health at a deeper level.

Textbook(s): None

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): None

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): None

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; *Theory of Knowledge: Course Companion*, ISBN 9780199151226

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; *Theory of Knowledge: Course Companion*, ISBN 9780199151226

Online and Blended Learning

High quality online and blended courses approved for credit offer PGPCS 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 PGPCS. 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.

*Blended Online courses are offered through the EOP. Based on the school's blended learning online implementation, the program may be provided before/ after school and/ or during the scheduled school day. Blended learning enrollment is offered in the Fall, Spring, and Summer sessions. Through the blended learning method, students are provided face-to-face instructional support from content-certified teacher in addition to the online courseware. Blended Learning may be taken for credit recovery or original credit.

*Online Courses are offered through MVLO. Courses delivered through MVLO are completely online. Online teachers meet state requirements for highly qualified teachers in the content area of the course. The online teacher is physically separated from the student, and interacts with students primarily through email, online discussions, and comments on their assignments. A trained mentor provides site-based student support. Additional online courses may available based on student needs and PGPCS and MSDE approval. Please contact your Professional School Counselor (PSC) for more information. Additional information can be found at MSDE's website: <https://msde.blackboard.com/>

NOTE: To ensure appropriate placement and awarding of course credit, students' participation must be approved by Prince George's County Public Schools prior to enrollment.

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 History

Course Code: 796103

Prerequisites: Approval

Credits: 1.0 Fine Art

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): Vendor Provided

Online Online Fundamentals of Art

Course Code: 796160

Prerequisites: None

Credits: 0.5 Fine Art

What words can you use to describe the parts that make up great art? What terms do artists apply to their creations in order to achieve their intended results? Fundamentals of Art, an entry-level one-semester course, introduces you to the theory and practice of art. You will begin your study with intensive application of the terms of art to give you the vocabulary you need to critically and insightfully discuss—and eventually write about—art. This course discusses and demonstrates the elements (line, color, shape/form, space, value, and texture) and principles (balance, harmony, unity, emphasis, repetition, rhythm, contrast, and composition) of art through the incorporation of famous works of art, as well as with the use of interactive graphics and activities. You will study classic representations of art that demonstrate particular elements and principles, such as paintings by Pissarro, da Vinci, Cimabue, Manet, Van Gogh, Gauguin, Renoir, and Monet. This course focuses on teaching you to analyze works of art rather than to create art. Before enrolling in this course, you should have basic skills in analysis and writing about subjects using evidence to support your ideas.

Textbook(s): Vendor Provided

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.

Textbook(s): *Java Concepts* 4th edition, Cay Horstmann, Hoboken, N.J. Wiley 2006; *GridWorld, AP Computer Science Case Study*. (Available from College Board)

Required Software: Java, a free download for either a Macintosh or a Windows platform

ONLINE OR BLENDED CAREER AND TECHNICAL EDUCATION

Blended College Career & Research Development 1

Course Code: 984083

Prerequisites: None

Credits: 1.0 Elective

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.

Textbook(s): Online Resources

Blended College Career & Research Development 2

Course Code: 984093

Prerequisites: College Career & Research Development 1

Credits: 1.0 Elective

CCRD 2 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.

Textbook(s): Online Resources

Blended Financial Literacy

Course Code: 795060

Prerequisites: None

Credits: 0.5 Financial Literacy

This course presents a variety of units to assist 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): Online Resources

Online Careers in Criminal Justice A, B

Course Code: 792830, 792840

Prerequisites: None

Credits: 0.5 Elective

Students will encounter different aspects of the US court system. The criminal justice system is a very complex field that requires dedicated people willing to pursue equal justice for all. Students will explore different career choices and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order.

Textbook(s): Online resources

Online Coding 1 A, B

Course Code: 798040, 798050

Prerequisites: None

Credits: 0.5 Elective

Learning to code is like learning a clandestine language, and now is your chance to get in on the secret! In this course, you will learn about the building blocks of coding. You'll explore how real-world problems can be broken into algorithms described through coding and then use the approachable and versatile coding language of Python to generate the output you're looking for. You'll cover both procedural and object-oriented programming and even create two text-based adventure games along the way.

Textbook(s): Online resources

Online Early Childhood Education

Course Code: 796800

Prerequisites: None

Credits: 0.5 Elective

This online course provides the historical, theoretical, and developmental foundation for educating young children with emphasis on creating inclusive environments and curricula for diverse children and their families. Topics include historical influences, program types, guidance, strategies, professionalism, current trends and issues and advocacy.

Textbook(s): Online resources

Online Early Childhood Education 1 B

Course Code: 796810

Prerequisites: Online Early Childhood Education

Credits: 0.5 Elective

Discover the joys of providing exceptional childcare and helping to develop future generations. Learn the importance of play and use it to build engaging educational activities that build literacy and math skills through each stage of childhood and special needs. Use this knowledge to develop your professional skills well suited to a career in childcare.

Textbook(s): Online resources

Online Introduction 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 resources

ONLINE OR BLENDED ELECTIVE

Online International Baccalaureate Film A

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

Online International Baccalaureate Film B

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

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.

Textbook(s): Vendor Provided

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 College Prep (SAT)

Course Code: 791090

Prerequisites: None

Credits: 0.5 Elective

Students will engage in study of college preparatory instruction and review strategies for taking the SAT.

Resource(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 state standards. 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 assessments.

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 state standards. 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 assessments. This course is aligned with the state standards for English Language Arts.

Textbook(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 state standards. 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 assessments. This course is aligned with the State Standards for English Language Arts.

Resource(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 state standards. 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 assessments. This course is aligned with the State Standards for English Language Arts.

Resource(s): Vendor Provided

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.

Resource(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 state standards. 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 assessments.

This course is aligned with the State Standards for English Language Arts.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

Online Introduction to Grammar and Composition

Course Code: 791180

Prerequisites: None

Credits: 0.5 Elective

In this course, students will work on the art of composing sentences and using the correct words. There will be a focus on language that impacts writing. This one-semester course focuses on using words and sentences correctly while keeping the goal of your writing in mind. This course focuses on how words, sentences, paragraphs, and essays help writers express their thoughts. Students will be given tools to help them understand and apply language and writing skills. Instruction will be about the writing process and the practice of skills in a variety of writing exercises. The goal of this course is to give students the confidence and skills needed to write a polished essay.

Textbook(s): None

Online Public Speaking

Course Code: 791200

Prerequisites: None

Credits: 0.5 Elective

This online course provides the student with a basic understanding of public speaking and how to prepare and present a variety of speeches. The student learns strategies to effectively communicate, to adapt to different audiences, and to practice organizational methods to create engaging speech content.

Resource(s): Vendor Provided

Online Public Speaking B

Course Code: 790910

Prerequisites: English 8, Online Public Speaking

Credits: 0.5 Elective

Students will bring speeches to life by learning about body language, vocal, and other techniques. They will also learn about logic and reason while gaining the confidence to help create and deliver great presentations and speeches. Students will also critically examine speeches and presentations and those of others to improve upon their in-person and virtual presentation skills.

Resource(s): Vendor Provided

Online Speech and Debate

Course Code: 790900

Prerequisites: None

Credits: 0.5 Elective

Students will study how to apply visuals, style, stories, organization and nonverbal communication to speeches. Students will also study debate tactics.

Resource(s): Vendor Provided

ONLINE OR BLENDED HEALTH

Blended Health 1 (Original Credit)

Course Code: 797060

Prerequisite: None

Credits: 0.5 Health Education

In this semester course, students learn the health education concepts and skills that will enable them to make decisions that promote healthful behaviors.

Resource(s): None

Blended Health 1 (Credit Recovery)

Course Code: 797070

Prerequisite: None

Credits: 0.5 Health Education

In this semester course, students learn the skills, attitudes, and behaviors that will enable them to make decisions that promote healthful behaviors.

Resource(s): None

ONLINE OR BLENDED MATHEMATICS

Online Advanced Placement Calculus

Course Code: 793163

Prerequisite: Approval; Online survey; AP Pre Calculus or Equivalent

Credits: 1.0 Math, Weighted

Online AP Calculus focuses on students' understanding of calculus concepts and provides experience with methods and applications. Through the use of big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions), each course becomes a cohesive whole, rather than a collection of unrelated topics. The courses require students to use definitions and theorems to build arguments and justify conclusions and features a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Exploring connections among these representations builds understanding of how calculus applies limits to develop important ideas, definitions, formulas, and theorems. A sustained emphasis on clear communication of methods, reasoning, justifications, and conclusions is essential. Teachers and students should regularly use technology to reinforce relationships among functions, to confirm written work, to implement experimentation, and to assist in interpreting results.

Required resources: TI-83 or TI-83 Plus calculator. Read "Getting Started" and Chapter 1 in the TI Guidebook before your course starts.

Resource(s): Vendor Provided

Online Advanced Placement Calculus AB

Course Code: 793150, 793160

Prerequisite: Approval; Online survey; AP Pre Calculus or Equivalent

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 of 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.

Resource(s): Vendor Provided

Online Advanced Placement Calculus BC

Course Code: 793170, 793180

Prerequisite: Approval; Online survey; Calculus or AP Calculus AB

Credits: . 50 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 of 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.

Resource(s): Vendor Provided

Online Advanced Placement Statistics

Course Code: 793223

Prerequisites: Approval; Algebra 2 or Probability & Statistics

Credits: 0.5 Math, Weighted

AP Statistics gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results of a poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real-world uncertainties, statistics plays an important role in many fields. 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.

Required resources: A TI-83+ or TI-84+ graphing calculator is required for this course.

Resource(s): Vendor Provided

Online Advanced Placement Statistics, Part A, Part B

Course Code: 793210, 793220

Prerequisites: Approval; Algebra 2 or Probability & Statistics

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.

Resource(s): Vendor Provided

Blended Algebra 1

Course Code: 793023

Prerequisites: Approval; Online survey; Geometry

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 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 assessments. This course is aligned with the State Standards for Mathematics.

Resource(s): Vendor Provided

Online Algebra 1

Course Code: 793003

Prerequisites: Approval; Online survey; Geometry

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 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 assessments. This course is aligned with the state standards for Mathematics.

Resource(s): Vendor Provided

Online Geometry

Course Code: 793050, 793060

Prerequisites: Approval; Math 8 or Foundations for Algebra

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.

Resource(s): Vendor Provided

Blended Geometry

Course Code: 793063

Prerequisites: Approval; Online survey; Math 8 or Foundations for Algebra

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 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 assessments. This course is aligned with the state standards for Mathematics.

Resource(s): Vendor Provided

Online Algebra 2

Course Code: 793030, 793040

Prerequisites: Approval; Online survey; Successful Completion of Geometry and Algebra 1

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.

Resource(s): Vendor Provided

Blended Algebra 2

Course Code: 793043

Prerequisites: Approval; Online survey; High School Student; Successful Completion of Geometry and Algebra 1

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 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 assessments. This course is aligned with the state standards for Mathematics.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

Online Honors Calculus

Course Code: 793130, 793140

Prerequisites: Approval; Algebra II or Equivalent

Credits: 0.5 Mathematics

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.

Resource(s): Vendor Provided

Blended Quantitative Modeling

Course Code: 793093

Prerequisites: Successful completion of Successful Completion of Geometry and Algebra 1

Credits: 1.0 Mathematics

Blended 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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

Blended Music Appreciation

Course Code: 796200

Prerequisites: Approval

Credits: 0.5 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 is bringing musical forms together in new ways from all around the world.

Resource(s): Vendor Provided

BLENDED PHYSICAL EDUCATION

Blended Personal Fitness

Course Code: 798030

Prerequisites: None

Credits: 0.5 Physical Education

Blended Personal Fitness offered in conjunction with the Instructional Support from a PGCPs Certified Teacher.

Resources: None

ONLINE SCIENCE

Online Advanced Placement Biology, Part A, Part B

Course Code: 794110, 794120

Prerequisites: Approval; Biology and Chemistry

Credits: 0.5 Life 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 Physical 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 Earth and Space 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.

Resource(s): Vendor Provided

Online Introduction to Astronomy

Course Code: 794100

Prerequisites: None

Credits: 0.5 Elective

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe that surrounds us. This course will introduce the student to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, the student will examine the life cycle of stars, the properties of planets, and the exploration of space.

Textbook(s): None

Online Astronomy 1 A, 1 B

Course Code: 794190, 794200

Prerequisites: None

Credits: 0.5 0.5 Earth and Space Science

In this course, students will be interacting with several content topics and practices in Astronomy. These include: Figuring out how the Earth developed and exists in the vastness of space? How do the scientific laws of motion and gravity play a role in its existence? Students will discover answers to these questions and explore the origin of the universe, the Milky Way, and other galaxies and stars, including the concepts of modern astronomy and the methods used by astronomers to learn more about the universe. Additionally, students will embark on an exciting journey through the solar system to explore the sun, comets, asteroids, meteors, life cycles of stars, and planets' properties. Students will become familiar with the concepts of space travel and settlements, and what it could be like to live and work in space.

Resource(s): Vendor Provided

Blended Biology

Course Code: 794123

Prerequisites: Approval

Credits: 1.0 Life Science

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

Blended Chemistry

Course Code: 794323

Prerequisites: Approval

Credits: 1.0 Physical Science

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 Earth and Space Science A

Course Code: 794250

Prerequisites: Approval

Credits: 0.5 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 the 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 Science integrates 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. Additionally, 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).

Resource(s): Vendor Provided

Online Earth and Space Science B

Course Code: 794260

Prerequisites: Approval

Credits: 0.5 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 the 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 Science integrates 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. Additionally, 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).

Resource(s): Vendor Provided

Online Environmental Science

Course Code: 794210, 794220

Prerequisites: Approval

Credits: 0.5 Earth and Space Science or Physical 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.

Resource(s): Vendor Provided

Online Physics

Course Code: 794410, 794420

Prerequisites: Approval; Algebra I

Credits: 0.5 Physical 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.

Resource(s): Vendor Provided

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.

Resource(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: 0.5 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 A

Course Code: 792310

Prerequisites: Approval; Grade 11 or 12

Credits: 0.5 Elective; Weighted

An Advanced Placement course which will explore how humans have understood, used, and changed the surface of Earth. Students will use the tools and thinking processes of geographers to examine patterns of human population, migration, and land use. The course will focus on the following skills to help students prepare to take the AP Human Geography assessment: Connecting geographic concepts and processes to real-life scenarios; Seeing patterns and trends in data and in visual sources such as maps and drawing conclusions from them; Understanding information shown in maps, tables, charts, graphs, infographics, images, and landscapes; Understanding spatial relationships using geographic scales.

Resource(s): Vendor Provided

Online Advanced Placement Human Geography B

Course Code: 792300

Prerequisites: Online Advanced Placement Human Geography A; Approval; Grade 11 or 12

Credits: 0.5 Elective; Weighted

An Advanced Placement course which will explore how humans have understood, used, and changed the surface of Earth. Students will use the tools and thinking processes of geographers to examine patterns of human population, migration, and land use. The course will focus on the following skills to help students prepare to take the AP Human Geography assessment: Connecting geographic concepts and processes to real-life scenarios; Seeing patterns and trends in data and in visual sources such as maps and drawing conclusions from them; Understanding information shown in maps, tables, charts, graphs, infographics, images, and landscapes; Understanding spatial relationships using geographic scales.

Resource(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.

Resource(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.

Resource(s): Vendor Provided

Blended African American History

Course Code: 792290

Prerequisites: None

Credits: 0.5 Social Studies

How have African Americans shaped the culture of the United States throughout history? Tracing the accomplishments and obstacles of African Americans from the slave trade through emancipation, and to the modern African diaspora, you will learn about the political, economic, social, religious, and cultural factors that have influenced African American life. In African American History, you'll come face to face with individuals who changed the course of history and learn more about slavery, racism, and the Civil Rights Movement. You will also explore how the history of African Americans influences current events today.

Resource(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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

Blended Introduction to Psychology

Course Code: 792380

Prerequisites: None

Credits: 0.5 Social Studies

In this course, the student will gain an understanding of human behavior, including biological foundations and the brain, sensation, motivation, and perception. The relationship between learning and memory; various personality theories; emotions; states of consciousness; cognition; life-span development; and applied psychology will be explored.

Resource(s): Vendor Provided

Blended Psychology

Course Code: 792353

Prerequisites: Approval; Online survey; High School Student

Credits: 1.0 Elective

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.

Resource(s): Vendor Provided

Blended Sociology

Course Code: 792340

Prerequisites: Approval; Online survey

Credits: .5 Elective

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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

Blended Women's Studies

Course Code: 792390

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.

Resource(s): Vendor Provided

Blended World Geography

Course Code: 792330

Prerequisites: Approval; Online survey; High School Student

Credits: 0.5 Elective

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.

Resource(s): Vendor Provided

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 state standards for Literacy in Social Studies.

Resource(s): Vendor Provided

ONLINE OR BLENDED TECHNOLOGY EDUCATION

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 as 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 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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

Online Chinese, French, Latin, or Spanish 1

Course Code: 791210, 791220 Chinese 1

791310, 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.

Resource(s): Vendor Provided

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; 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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

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.

Resource(s): Vendor Provided

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)

Resource(s): Vendor Provided

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)

Resource(s): Vendor Provided

Blended Spanish 2

Course Code: 91413

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

Online Business Information Management

Course Code: 795113

Prerequisites: None

Credits: 1.0 Elective, CTE

Online Business Information Management prepares students to apply technology skills to personal and workplace business situations. Students develop mastery in using MS Office applications (Word, Excel, Access, PowerPoint and Publisher).

Resource(s): Vendor Provided

Online Principles of Information Technology

Course Code: 798033

Prerequisites: None

Credits: 1.0 Computer Science, Engineering or Technology Education

In Online Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Resource(s): Vendor Provided

Online Advanced Placement English Language and Composition

Course Code: 791133

Prerequisites: English 9 and English 10

Credits: 1.0 English, Weighted

This is a blended course designed to prepare students to compete successfully on the Advanced Placement exams, 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.

Resource(s): Vendor Provided

Online Advanced Placement English Literature and Composition

Course Code: 791143

Prerequisites: English 9 and English 10

Credits: 1.0 English, Weighted

This is a blended course that is designed to prepare students to compete successfully on the Advanced Placement exams, 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.

Resource(s): Vendor Provided

Online Creative Writing

Course Code: 791190

Prerequisites: English 9

Credits: 0.5 Elective, English

This blended Creative Writing course is designed for students who enjoy writing as a form of art and personal expression. In this course, students will explore the elements of numerous literary genres (short fiction, poetry, drama, film) and the power of both print and multimedia formats. To develop original writing pieces, students will engage in writing workshops, literary element development lessons, writing/author studies, and peer reviews/conferences.

Resource(s): Vendor Provided

Online Music Appreciation

Course Code: 796203

Prerequisites: None

Credits: 0.5 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 is bringing musical forms together in new ways from all around the world.

Resource(s): Vendor Provided

Online Introduction to Visual Arts

Course Code: 796150

Prerequisites: None

Credits: 0.5 Elective, Fine Art

Online Introduction to Visual Arts 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.

Resource(s): Vendor Provided

Online Nutrition and Wellness

Course Code: 797050

Prerequisites: Health Issues or Health One

Credits: 0.5 Elective, Health Education

Through this online semester elective health course, students will explore how food affects essential aspects of life from weight to aging and thinking. Students will also examine how outside influences - such as family, peers, and the media - can affect diet, the perception of food and learn how to set themselves up for nutritional success.

Resource(s): Vendor Provided

Online Physical Education

Course Code: 797040

Prerequisites: Pending

Credits: 0.5 Elective, Physical Education

Course Description: Pending

Resource(s): Vendor Provided

Online African American Studies

Course Code: 792530

Prerequisites: Pending

Credits: 0.5 Elective, Social Studies

Course Description: Pending

Resource(s): Vendor Provided

Online Philosophy

Course Code: 792540

Prerequisites: Pending

Credits: 0.5 Elective, Social Studies

Course Description: Pending

Resource(s): Vendor Provided

Online Advanced Placement Psychology

Course Code: 792550

Prerequisites: Pending

Credits: 0.5 Elective, Social Studies, Weighted

Course Description: Pending

Resource(s): Vendor Provided

Mathematics

Advanced Placement Precalculus

Course Code: 375213

Prerequisites: Successful completion of Algebra 2

Credits: 1.0 Math, Weighted

The AP Precalculus replaces Precalculus 375203. AP Precalculus will focus topics organized in on four major units: Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions and Functions Involving Parameters, Vectors, and Matrices. Through these units, students will gain a deep conceptual understanding of functions and their graphs, learning how to model and interpret models of functions. By the end of the course, students will have established a strong foundation of higher math skills for other college-level mathematics and science courses.

Textbook(s): *Precalculus with Limits*, Cengage Learning, ISBN 9780357643273

Advanced Placement Calculus (AB)

Course Code: 380003

Prerequisites: Successful completion of AP Precalculus

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): None

Dual Credit: Earning credit for MAT 2410 Calculus 1 at Prince George's Community College or MATH 225 at Bowie State University makes a student eligible for 380023 Calculus AB DE credit.

Advanced Placement Calculus (BC)

Course Code: 380103

Prerequisites: Successful completion of AP Precalculus

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): None

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. .

Textbook(s): None

Advanced Placement Statistics

Course Code: 398003

Prerequisites: Successful Completion of Algebra 2 or Probability & Statistics

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Statistics: Modeling the World, AP Edition*, ISBN 9780134782553

Dual Credit: Earning credit for MAT 1140 Introduction to Statistics at Prince George's Community College makes a student eligible for 374003 Introduction to Statistics DE credit.

Algebra 1

Course Code: 323503

Prerequisites:

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 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;

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 program.

323513 S/T, 323553 ESOL

Textbook(s): *enVision Algebra I*, ISBN 9780328931545

Algebra 1 Lab

Course Codes: 323703

Prerequisites: *Geometry, Concurrent enrollment in Algebra 1*

Credits: 1.0 Elective

Algebra I 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.

Textbook(s): Carnegie Learning High School Math Solution Algebra I, ISBN 9781934239803

Algebra 2

Course Code: 362403, 362433, 362473

Prerequisites: Successful completion of *Geometry and Algebra 1*

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 numerators 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.

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*

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *None*

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.

Earning credit for MATH 226 at Bowie State University makes a student eligible for 395110 Calculus 2 DE credit

Introduction to Computer Programming

Course Code: 390023

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

Credits: 1.0 Elective

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: None

Dual Credit: Earning credit for INT 2240 Introduction to Python at Prince George's Community College makes a student eligible for 390033 Introduction to Computer Programming 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 than 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): None

Dual Credit: Earning credit for MAT 2460 Differential Equations at Prince George's Community College or MATH 300 Differential Equations at Bowie State University makes a student eligible for 396010 Differential Equations DE credit.

Foundations for College Algebra

Course Code: 353123, 353153 (ESOL)

Prerequisites: Successful completion of Algebra 2, Probability & Statistics or Quantitative Modeling

Credits: 1.0 Mathematics

Foundations for College Algebra reviews topics from Algebra 1 and Algebra 2 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook: *College Prep Algebra: Mathematics for College Readiness, Tenth Edition, Cengage Learning*, ISBN 9780357578551

Dual Credit: Earning credit for MAT 1250 Applied College Algebra at Prince George's Community College makes a student eligible for 353263 Foundations of College Algebra DE credit.

Geometry

Course Code: 344003,

Prerequisites: Math 8 or Foundations for Algebra

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.

344033 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;

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 program.

344013 S/T, 344053 ESOL

Textbook(s): *enVision Geometry*, ISBN 9780328931552

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): None

Probability/Statistics

Course Code: 373103

Prerequisites: Successful completion of Algebra 1

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.

Textbook(s): *Statistics and Probability with Applications*, ISBN 9781464122163

Dual Credit: Earning credit for MAT 1160 Elements of Probability and Statistics at Prince George's Community College makes a student eligible for 373113 Probability and Statistics DE credit.

Quantitative Modeling

Course Code: 353303

Prerequisites: Successful completion of *Geometry and Algebra 1*

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.

353333 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;

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): None

Trigonometry and Analytic Geometry

Course Code: 318053

Prerequisites: Successful completion of *Algebra 2*

Credits: 1.0 Math

This course provides an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities and equations and complex numbers in rectangular and polar/trigonometric forms, rectangular and polar coordinates and conics.

Textbook(s): *Trigonometry* ISBN 9781337278478

MEDIA ARTS

Media Arts Production 1

Course Code: 760523, 760553

Prerequisites: None

Credits: 1.0, 2.0 Fine Art

Students will demonstrate how to participate as effective personnel during the production process. Students will operate equipment and apply concepts and techniques from the three stages of the media arts production process. Project-based learning will be the central focus of this course. Students will formulate performance tasks using content-based literacy strategies.

Textbook(s): Video: Digital Communications & Production, ISBN 9781637765203; Video: Digital Communications & Production Workbook, ISBN 9781649258861; Media Now: Understanding Media, Culture, and Technology, Tenth Edition, ISBN 9781337578660

Media Arts Production 2

Course Code: 760533, 760563

Prerequisites: Successful completion of Media Arts Production 1

Credits: 1.0, 2.0 Fine Art

Students will demonstrate how to participate as effective personnel during the production process. Students will operate equipment and apply concepts and techniques obtained in level 1 to the stages of the media arts production. Project-based learning will be the central focus of this course. Students will formulate performance tasks using content based literacy strategies.

Textbook(s): Video: Digital Communications & Production, ISBN 9781637765203; Video: Digital Communications & Production Workbook, ISBN 9781649258861; Media Now: Understanding Media, Culture, and Technology, Tenth Edition, ISBN 9781337578660

Dual Credit: Earning credit for TRF 2330 - Television Production II at Prince George's Community College makes a student eligible for 760133 Television Production 2 DE credit.

Media Arts Production 3

Course Code: 760543, 760573

Prerequisites: Successful completion of Media Arts Production 1 and 2

Credits: 1.0, 2.0 Fine Art

Students will learn advanced aspects of producing, directing, writing and reporting for the broadcasting of a news magazine. Students will be assigned duties throughout various aspects of the production process, thus exposing them to the major areas of production. Through in-class discussions, demonstrations, and hands-on experiences, students will be exposed to the rigor necessary to succeed in the Media Arts production field. Beginning the second quarter, this news magazine will air monthly on the PGCPs Media Arts Channel 96.

Textbook(s): Video: Digital Communications & Production, ISBN 9781637765203; Video: Digital Communications & Production Workbook, ISBN 9781649258861; Media Now: Understanding Media, Culture, and Technology, Tenth Edition, ISBN 9781337578660

Media Arts Production 4 (Comprehensive ONLY)

Course Code: 760583

Prerequisites: Successful completion of Media Arts Production 1, 2, and 3

Credits: 1.0 Fine Art

All students in the Media Arts Production IV course will have the opportunity to develop the knowledge and skills needed for creating a media production. They will be exposed to a curriculum that fosters an appreciation for media literacy, ethics, design, and innovation. The program will enhance interdisciplinary studies as outlined by the MSDE Curriculum and the Common Core Standards related to English, Math, Social Studies, Science, the Arts, and Technical Subjects. Learners will experience practical application, cross-curricular connections, and real-world exploration, which will promote effective communicators, dynamic team players, and service-oriented citizens.

Textbook(s): Video: Digital Communications & Production, ISBN 9781637765203; Video: Digital Communications & Production Workbook, ISBN 9781649258861; Media Now: Understanding Media, Culture, and Technology, Tenth Edition, ISBN 9781337578660

Mass Media

Course Code: 772803

Prerequisites: Successful completion of Media Arts Production 1 and 2

Credits: 1.0 Elective

The purpose of this course is to help students become critical viewers of Mass Media and become aware of the pervasive effects of Mass Media on society. Students will examine how new media technologies expand conventional types of communication, and they will trace the evolution of technology, content, audiences, and multiple delivery methods. Additionally, students will analyze the journalism industry as it evolves with the digital landscape toward immersive journalism and experiment with changes in its business model.

Textbook(s): Media Now: Understanding Media, Culture, and Technology, Tenth Edition, ISBN 9781337578660

Practicum in Media Arts - Internal Placement (Double Credit)

Course Code: 760613

Prerequisites: Successful completion of Media Arts Production 1, 2, and 3, and instructor's recommendation

Credits: 2.0 Elective

This course replaces Studio Assistantship (772003) and is updated and aligned with the MSDE Fine Arts Standards for Media Arts.

Students in this course mentor third-year students and continue to develop the aspects of digital storytelling, which includes: producing, directing, shooting and editing for the production of long term production projects, i.e., documentaries, video yearbooks, instructional videos, news magazines, film, news packages, podcast series, etc.

Seniors who have successfully completed the first three levels of Media Arts Production, but are ineligible to intern, or who opt to stay in the school building should register for this course. Although students registered for Media Arts Practicum are not reporting to a worksite, real-world projects, and deadlines should be set for assigned projects in order to prepare these students for the rigor of college, or career.

Students will be assessed on their written assignments, as well as their production activities. By Level IV, students have the tools to utilize the three phases of production to complete complex productions. It is the expectation that students will use prior knowledge as well as acquire new knowledge throughout this course.

Textbook(s): None

Internship in Media Arts - Internal Placement (Double Credit)

Course Code: 776023

Prerequisites: Successful completion of Media Arts Production 1, 2, and 3, and instructor's recommendation

Credits: 2.0 Elective

Seniors who have successfully completed the first three levels of Media Arts Production are eligible to enroll in the Internship in the Media Arts program. Students are placed at media production facilities in the Washington, D.C. Metropolitan area where they are able to put the skills learned in the classroom to practical use. Students will develop a knowledge and understanding of current and emerging technologies in order to become college and career-ready citizens equipped to successfully compete in the global society.

The internship requires that students report to their assigned job site on all scheduled days/times. The internship site will determine the start and end times for the internship. Times may vary based on the needs of the facility. Special projects may require additional weekday or weekend hours.

Textbook(s): None

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.

Textbook(s): *Advanced Technique for Strings, Essentials for Strings, Essential Elements Bk. IV, Daily Warm ups for Strings, High Tech for Strings* and advanced ensemble literature; *MODA IV, V, or VI*

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): None

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): None

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 Piano Theory III or Musicianship III; 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.

Textbook(s): *Tonal Harmony*, McGraw-Hill Education, MusicFirst online platform

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 literature, *Sing at First Sight Levels 1-2*

Intermediate Chorus - Tenor, Baritone, and Bass

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.

Textbook(s): Teacher selected choral literature, *Sing at First Sight Levels 1-2*

Intermediate Chorus - Soprano and Alto

Course Code: 630133, 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, 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 literature, *Sing at First Sight Levels 1-2*

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 vocal solo literature, *Sing at First Sight Levels 1-2*

Dual Credit: Earning credit for MUS 1170 Applied Music Level 1 at Prince George's Community College makes a student eligible for 646443 Applied Music Voice DE credit.

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 vocal solo literature, *Sing at First Sight Levels 1-2*

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Music! Its Role and Importance in our Society*, ISBN 978-0078297564; MusicFirst online platform

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Essentials of Music Theory (Complete)*, ISBN 0882849514; Teacher selected materials as identified in the Curriculum Framework Overview

Dual Credit: Earning credit for MUS 1005 Fundamentals of Music Theory at Prince George's Community College makes a student eligible for 623013 Musicianship 1 DE course credit.

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Essentials of Music Theory (Complete)*, ISBN 0882849514; Teacher selected materials as identified in the Curriculum Framework Overview

Dual Credit: Earning credit for MUS 1005 Fundamentals of Music at Prince George's Community College makes a student eligible for 623000 Musicianship 1A and 624000 Musicianship 1B

Dual Credit: Earning credit for MUS 1005 Fundamentals of Music Theory at Prince George's Community College makes a student eligible for 623013 Musicianship 1 DE course credit.

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Essentials of Music Theory (Complete)*, ISBN 0882849514; Teacher selected materials as identified in the Curriculum Framework Overview

Dual Credit: Earning credit for MUS 1155 Music Theory 1 at Prince George's Community College makes a student eligible for 625000 Musicianship 2A and 626000 Musicianship 2B

Dual Credit: Earning credit for MUS 1155 - Music Theory I at Prince George's Community College makes a student eligible for 624013 Musicianship 2 DE course credit.

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Essentials of Music Theory (Complete)*, ISBN 0882849514; Teacher selected materials as identified in the Curriculum Framework Overview

Dual Credit: Earning credit for MUS 1150 Music Theory 1 at Prince George's Community College makes a student eligible for 625000 Musicianship 2A and 626000 Musicianship 2B

Dual Credit: Earning credit for MUS 1150 - Music Theory I at Prince George's Community College makes a student eligible for 624013 Musicianship 2 DE course credit.

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Essentials of Music Theory (Complete)*, ISBN 0882849514; Teacher selected materials as identified in the Curriculum Framework Overview

Dual Credit: Earning credit for MUS 1160 Music Theory 2 at Prince George's Community College makes a student eligible for 627000 Musicianship 3A and 628000 Musicianship 3B

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Essentials of Music Theory (Complete)*, ISBN 0882849514; Teacher selected materials as identified in the Curriculum Framework Overview

Dual Credit: Earning credit for MUS 1160 Music Theory 2 at Prince George's Community College makes a student eligible for 627000 Musicianship 3A and 628000 Musicianship 3B

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. Check www1.pgcps.org/dualenrollment for dual credit updates

Textbook(s): *Audio Fundamentals*

Dual Credit: Earning credit for MUS 1430 Digital Music Production or MUS 1500 Introduction to Music Technology at Prince George's Community College makes a student eligible for 647700, 647713 Principles of Recording Technology.

Dual Credit: Earning credit for MUS 1500 Introduction to Music Technology at Prince George's Community College makes a student eligible for 647710 Principles of Recording Technology DE course credit.

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): *Sound Innovations for Guitar (Book 1)*, Alfred Publishing, ISBN 0739077902

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): *Technique Volumn 1 and Volumn 2*, Alfred Publishing, ISBN 1470633760 and 0898985730

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): *Classic Guitar Technique-*

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. Students in this course should be performing at levels 1 and 2 as outlined in the new Piano Curriculum.

Textbook(s): *Adult Piano Method Lessons, Solos, Technique, & Theory and Scales, Patterns, and Improvisation, Book 1*

Dual Credit: Earning credit for MUS 1210 Class Piano I at Prince George's Community College makes a student eligible for Basic Piano DE course 643290 credit.

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. Students in this course should be performing at levels 3 and 4 as outlined in the new Piano Curriculum.

Textbook(s): *Adult Piano Method Lessons, Solos, Technique, & Theory and Scales, Patterns, and Improvisation, Book 1*

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. Students in this course should be performing at levels 5 and 6 as outlined in the new Piano Curriculum.

Textbook(s): *Adult Piano Method Lessons, Solos, Technique, & Theory and Scales, Patterns, and Improvisation, Book 1*

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 waived 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. Check www1.pgcps.org/dualenrollment for dual credit updates

Textbook(s): *Fitness For Life*, ISBN 9781492591511

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

Course Code: 422003

Prerequisites: Biology, Chemistry

Credits: 1.0 Weighted, Life Science

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. The AP Biology course is equivalent to a two-semester college introductory biology course for biology majors. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.

Textbook(s): *Campbell Biology*, ISBN 9781464113079

Advanced Placement Chemistry

Course Code: 431103

Prerequisites: Chemistry, Algebra 2

Credits: 1.0 Weighted, Physical Science

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. This course requires that 25 percent of instructional time engages students in lab investigations. This includes a minimum of 16 hands-on labs (at least six of which are inquiry-based). It is recommended that students keep a lab notebook throughout.

Textbook(s): *Chemistry: The Central Science*, ISBN 9780134650951

Advanced Placement Environmental Science

Course Code: 491303

Prerequisites: Life Science, Physical Science, Algebra 1 required; Earth Science preferred

Credits: 1.0 Weighted, Earth and Space Science or Physical Science

The AP Environmental Science course is designed to engage students with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. Although there are no specific AP Environmental Science labs or field investigations required for the course, it is required that students have the opportunity to spend a minimum of 25% of instructional time engaged in hands-on, inquiry-based laboratory and/or fieldwork investigations.

Textbook(s): *Living in the Environment*, ISBN 9781285197289

Advanced Placement Physics 1

Course Code: 441113

Prerequisites: Algebra 1

Credits: 1.0 Weighted, Physical 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): *None*

Advanced Placement Physics 2

Course Code: 441133

Prerequisites: AP Physics 1

Credits: 1.0 Weighted, Physical Science

This algebra-based AP physics course 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

Advanced Placement Physics C

Course Code: 441003

Prerequisites: Calculus completed or concurrent; Physics preferred

Credits: 1.0 Weighted, Physical Science

Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. AP Physics C: Electricity and Magnetism should include a hands-on laboratory component comparable to a semester-long introductory college-level physics laboratory. Students should spend a minimum of 25% of instructional time engaged in hands-on laboratory work. Students ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress. Each student should complete a lab notebook or portfolio of lab reports.

AP Physics C: Mechanics is a calculus-based, college-level physics course. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. AP Physics C: Mechanics should include a hands-on laboratory component comparable to a semester-long introductory college-level physics laboratory. Students should spend a minimum of 25% of instructional time engaged in hands-on laboratory work. Students ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress. Each student should complete a lab notebook or portfolio of lab reports.

Textbook(s): *Fundamentals of Physics, AP Edition*, ISBN 9781119582038

Anatomy and Physiology

Course Code: 492100

Prerequisites: Biogeochemical Systems, Biology, or Chemistry Honors

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.

Textbook(s): *Hole's Essentials of Human Anatomy and Physiology*, ISBN 9781260251340

Anatomy and Physiology (Systems Applications)

Course Code: 492113

Prerequisites: *Biogeochemical Systems or Biology*

Credits: 1.0 Elective

Anatomy and Physiology is a laboratory-based course designed to provide students with 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: describe relationships between the structure and function that exist within the integumentary, skeletal, nervous, and muscular systems, analyze how the integumentary, skeletal, nervous, and muscular systems help the body maintain homeostasis, arrange anatomical structures into the different levels of anatomical organization (e.g., cellular level or organ level), and investigate the impact of diseases on certain systems. Extensive laboratory investigations to include connections and applications to Science, Technology, Engineering, Mathematics, and Medicine (STEMM) and individual research will be required.

Textbook(s): *Hole's Essentials of Human Anatomy and Physiology*, ISBN 9781260251340

Dual Credit: Earning credit for BIO 2050 Human Anatomy and Physiology 1 at Prince George's Community College makes a student eligible for 492123 Anatomy and Physiology DE credit.

Biogeochemical Systems

Course Code: 420803, 420863

Prerequisites: *8th Grade Science*

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 ELD

Textbook(s): *Science Dimensions: Earth and Space Science*, ISBN 9780544861817, *Science Dimensions: Biology*, ISBN 9780544861787

Biology

Course Code: 420603

Prerequisites: *Biogeochemical Systems; Prerequisites updated in school year 2021-2022 to align with Code of Maryland Regulations (COMAR)*

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). Check www1.pgcps.org/dualenrollment for dual credit updates.

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: Honors 8th Grade Science grade of 'A or B' and successful completion of Algebra 1; Prerequisites updated in school year 2021-2022 to align with Code of Maryland Regulations (COMAR)

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: *Honors 8th Grade Science grade of 'A or B' and successful completion of Algebra 1 for 9th graders; Prerequisites updated in school year 2021-2022 to align with Code of Maryland Regulations (COMAR)*

Credits: 1.0 Life Science; Weighted

Biology PDP 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; Honors 8th Grade Science; Prerequisites updated in school year 2021-2022 to align with Code of Maryland Regulations (COMAR)

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 Biology Honors 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; Biogeochemical Systems; Prerequisites updated in school year 2021-2022 to align with Code of Maryland Regulations (COMAR)

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.

Textbook(s): *Science Dimensions: Biology*, ISBN 9780544861787

Chemistry

Course Code: 430003, 430013, 430063

Prerequisites: Biogeochemical Systems, Biology, and successful completion of Algebra 1

Credits: 1.0 Physical Science or Earth and Space 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): *Experience Chemistry Notebook Volumes 1 and 2*, ISBNs 9781418327187 and 9781418327194

Dual Credit: Earning credit in CHM 1010 General Chemistry 1 at Prince George's Community College makes a student eligible for 430033 Chemistry DE credit.

Earth and Space Systems Science

Course Code: 493113

Prerequisites: *Biogeochemical Systems, Biology 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). Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Earth and Space Science Techbook* (Digital Only), ISBN 9781617087189

Dual Credit: Earning credit for PHSC 101 Earth Science I at Bowie State University makes a student eligible for 493013 Earth Space Science DE credit.

Environmental Science

Course Code: 491103

Prerequisites: *Biogeochemical Systems, Biology 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). Check www1.pgcps.org/dualenrollment for dual credit updates.

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): *Principles of Environmental Science Inquiry and Application: High School Edition*, ISBN 9780073383194

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: *Biogeochemical Systems; Biology 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: Fundamentals & Investigations (3rd Edition), ISBN 9780357124987

Forensic Lab Science 2

Course Code: 433190

Prerequisites: *Biogeochemical Systems; Biology 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: Fundamentals & Investigations (3rd Edition), ISBN 9780357124987

Medical Science

Course Codes: 490600, 490680

Prerequisites: *Biogeochemical Systems; Biology 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.

Textbook(s): Introduction to Health Science Technology, ISBN 9781401811280

Microbiology

Course Code: 440200

Prerequisites: *Biogeochemical Systems; Biology 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). Check www1.pgcps.org/dualenrollment for dual credit update.

Textbook(s): *Microbiology: An Introduction, 13th Edition*, ISBN 9780134605180

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: *Biogeochemical Systems; Biology 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). Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Experience Physics*, ISBN 9781418333966

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): None

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.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

Textbook(s): *Architecture: Residential Drafting and Design, 2e*, ISBN 97816377652

Online Resource: SolidProfessor

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.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

Textbook(s): *Architecture: Residential Drafting and Design, 2e*, ISBN 97816377652

Online Resource: SolidProfessor

Organic Chemistry S/T

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 S/T 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 syntheses, 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Organic Chemistry, 10e*, ISBN 9780073511214

Dual Credit: Earning credit for CHM 2010 Organic Chemistry I credit at Prince George's Community College makes a student eligible for 431323 Organic Chemistry DE credit.

Biology S/T

Course Code: 420793

Prerequisites: *Enrollment in Science and Technology Program or Aerospace Engineering & Aviation
Technology Program*

Credits: 1.0 Life 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 PGCPHS 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 9780544861787

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 Physical Science or Earth and Space 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 PGCPHS 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 Circuitry, Radio Technology, Fiber Optic Technology, Alternating Circuit Design, Low Voltage Circuitry, Sensors, and Electronic Meter Reading and Operation. Sensors and entry level programming in Basic form the center of computer use in this course.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

Textbook(s): None

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.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

Textbook(s): *Power, Energy Technology*

Online Resource: SolidProfessor

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.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

Textbook(s): *Technical Drawing* ISBN 9780078457487

Engineering Foundations and Research Design S/T

Course Code: 870923

Prerequisites: Completion of Technology Education Credit

Credits: 1.0 Elective

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): *Engineering Fundamentals : An Introduction to Engineering*, ISBN 9781337705011

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).

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

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 S/T

Course Code: 420503

Prerequisites: Biology, Chemistry

Credits: 1.0 Elective

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).

Textbook(s): Human Genetics: Concepts and Applications, 13th Edition, ISBN 9781260240894

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 Physical 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 PGCPHS 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.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

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.

Through SY 2023-24, students entering high school in Fall 2021 are not eligible for Advanced Technology Education as a completer option (see AP 6150 Educational Requirements and Options).

Textbook(s): *Static and Structures - Architecture*

Online Resource(s): SolidProfessor, Onshape

Social Studies

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 MCAP.

Textbook(s): *American Government: Stories of A Nation*, ISBN 9781544327556

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): None

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): None

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): *Human Geography: A Spatial Perspective, AP Edition*, ISBN 9780357119082

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): *Foundations of Economics AP Edition with MyEconLab*, ISBN 9780134645582

Dual Credit: Earning credit for ECN 1030 Principles of Macroeconomics at Prince George's Community College makes a student eligible for 290953 Macroeconomics DE credit.

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): *Foundations of Economics AP Edition with MyEconLab*, ISBN 9780134645582

Dual Credit: Earning credit for ECN 1050 Principles of Microeconomics at Prince George's Community College makes a student eligible for 290943 Microeconomics DE credit.

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): *Myer's Psychology for AP*, 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.

Textbook(s): *Experience History: Interpreting America's Past*, ISBN 9781259541803

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): *The Earth and It's Peoples - A Global History, AP Edition*, 7th Edition, ISBN 9781337401500

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *African American History*, ISBN 9781328450036

Dual Credit: Earning credit for HST 1510 History of African Americans to 1877 at Prince George's Community College makes a student eligible for 234020 African American Studies 1 DE credit

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *African American History*, ISBN 9781328450036

Dual Credit: Earning credit for HST 1530 History of African Americans Since 1877 at Prince George's Community college makes a student eligible for 234030 African American Studies 2 DE credit

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

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)

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): None

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 MCAP in Government at the end of this course.

Textbook(s): United States Government: Our Democracy, ISBN 9780006781935

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; 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Dual Credit: Earning credits for PGCC POS 1020 Local and State Government makes a student eligible for 213533 LSN Government 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Philosophy: A Text with Readings*, ISBN 9781133612100

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 PHL 1010 Introduction to Philosophy: The Art of Questioning at Prince George's Community College makes a student eligible for 290710 Intro Philosophy 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Psychology in Your Life*, ISBN 9780393689600

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 Issues

Course Code: 290100

Prerequisites: Grade 11 or 12 student

Credits: 0.5 Elective

The semester course recommended for juniors and seniors focuses on the issues facing people living in groups in contemporary American and global society. It is concerned with fostering the development of critical thinking. Current social issues are examined using the techniques developed by social scientists. Students will be given opportunities to investigate some of the many complex issues facing American and global society. The course makes it possible for the student to examine openly and critically their own beliefs in relation to those of other members of our society and the world community.

Textbook(s): *Social Problems*, Prentice Hall; *Taking Sides: Bioethical Issues*, Glencoe-McGraw-Hill; *Taking Sides: Clashing Views on Social Issues 17th Edition*, Glencoe-McGraw-Hill, ISBN 9780078050336; and Open source online materials

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): None

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): None

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *The Real World: An Introduction to Sociology*, ISBN 9780393419382

Dual Credit: Earning credit for SOC 1010 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

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

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

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 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;

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; 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *United States History: Reconstruction to the Present*, ISBN 9780544669062

Dual Credit: Earning credit for HST 1430 History of the United States II at Prince George's Community College makes a student eligible for 262133 US History DE credit.

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 Century 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): *Through Women's Eyes: An American History*, ISBN 97813119104948

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.

261053 ESOL

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 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.

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; 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *World History*, ISBN 9780544668225

Dual Credit: Earning credit for HST 1320 Modern History credit at Prince George's Community College makes a student eligible for 261213 World History 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 - Social Skills

Course Code: Grade 9 - 142263

Grade 10 - 142363

Grade 11 - 142563

Grade 12 - 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): None

SPECIAL EDUCATION - ALT

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): None

Independent Living Skills Alt

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

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): None

SPECIAL EDUCATION - SCIENCE

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): None

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): None

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): None

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 student will require a different scope and sequence, adapted and modified materials.

Textbook(s): None

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): None

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): None

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 1400AD. 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): None

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 course series designed to introduce and develop skills and experiences useful to students having an interest in and/or an aptitude for drama. Topics include acting, technical theatre, theatre history, and history literature.

Textbook(s): *Basic Drama Projects*, ISBN 9780789188960

Drama 2

Course Code: 129103

Prerequisites: Drama 1 and teacher recommendation

Credits: 1.0 Fine Art

Drama 2 is the second course in a four-course series during which the students will explore collaborative projects, origins of theatre, history of theatre, design concepts, mask making, and playwriting.

Textbook(s): *The Essential Theatre*, ISBN 9781133307280; *Plays For The Theatre*, ISBN 9781133310693

Drama 3

Course Code: 129203

Prerequisites: Drama 2 and teacher recommendation

Credits: 1.0 Fine Art

Drama 3 is the third course in a four-course series which provides students hands-on experiences with practices that help drama come alive on the stage. Students will explore collaborative projects, eras in theatre, design concepts and technology, costume design, physical theatre, playwriting, and performance.

Textbook(s): *The Essential Theatre*, ISBN 9781133307280; *Plays For The Theatre*, ISBN 9781133310693

Drama 4

Course Code: 129233

Prerequisites: Drama 3 and teacher recommendation

Credits: 1.0 Fine Art

Drama 4 (129233):

Drama 4 is the fourth course in a four-course series which prepares students for continued studies in theatre. Students will explore collaborative projects, contemporary theatre, acting methodologies, design concepts and technology, theatre growth and expansion, and musical theatre.

Textbook(s): *The Essential Theatre*, ISBN 9781133307280; *Plays For The Theatre*, ISBN 9781133310693; *The Wadsworth Anthology of Drama*, ISBN 139781428288140

VISUAL ARTS

Advanced Placement 2D Art and Design

Course Code: 613503

Prerequisites: Art 1, Art 2 or Departmental waiver and Teacher Recommendation

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 high-quality selected works, and a sustained investigation demonstrated through practice, experimentation, and revision. All students will be expected to maintain a journal/sketchbook.

Textbook(s): *The Visual Experience* and *Launching the Imagination*, ISBN 9780871926272

Advanced Placement 3D Art and Design

Course Code: 613603

Prerequisites: Art 1; Ceramics or Sculpture and Teacher Recommendation

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.

Textbook(s): *Exploring Visual Design, Davis Publications. ISBN: 9781615280223*

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.

Textbook(s): *Exploring Visual Design, Davis Publications. ISBN: 9781615280223*

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.

Textbook(s): Exploring Visual Design, Davis Publications. ISBN: 9781615280223

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.

Textbook(s): Exploring Visual Design, Davis Publications. ISBN: 9781615280223

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.

Textbook(s): Exploring Visual Design, Davis Publications. ISBN: 9781615280223.

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.

Textbook(s): Exploring Visual Design, Davis Publications. ISBN: 9781615280223.

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): Exploring Visual Design, Davis Publications. ISBN: 978-16152-8022-3.

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.

Textbook(s): Rose, T., & Mahan-Cox, S. (2007). *Discovering Drawing*. Davis Publication and Brommer, G., & Kinue, N. (2003). *Exploring Painting*, 3rd edition. Davis Publication

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 imaging, 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 imaging, 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. Check www1.pgcps.org/dualenrollment for dual credit updates.

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 1

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

Digital Photography 2

Course Code: 616343
Prerequisites: Digital Photography 1
Credits: 1.0 Fine Art

This is an advanced digital photography course for students who have completed Digital Photography 1. Students will build upon their skills in Adobe Photoshop and Lightroom, while practicing their digital photography camera skills and techniques learned in the beginning course. The course focus will include both image capture techniques and post processing techniques in the digital lab. The projects will be both fine art and commercial art based. The students will explore studio and on location lighting techniques to enhance their photography in the fields of commercial art, advertising and product photography, portraiture, fashion, nature and landscape, photojournalism, lifestyle, documentary and fine art. They will learn and research various artists in these fields, emulating their styles, yet creating their own vision and personal style with an increase in complexity, visual metaphors and emotions, demonstrated through technically demanding projects. Hands on experience will be both independent and team based.

Textbook(s): None

Intermediate Drawing and Painting

Course Code: 617113
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.

Textbook(s): *Exploring Painting*; *Discovering Drawing*, ISBN 9781615286682; and *Experience Painting*, ISBN 9781615282708

Intermediate Drawing and Painting

Course Code: 617133

Prerequisites: Art 1 and Teacher Permission

Credits: 2.0 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.

Textbook(s): Exploring Painting; Discovering Drawing, ISBN 9781615286682; and Experience Painting, ISBN 9781615282708

Advanced Drawing and Painting

Course Code: 617123

Prerequisites: Intermediate Drawing and Painting and/or Teacher Permission

Credits: 1.0 Fine Art

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.

Textbook(s): Exploring Painting; Discovering Drawing, ISBN 9781615286682; and Experience Painting, ISBN 9781615282708

Advanced Drawing and Painting

Course Code: 617143

Prerequisites: Intermediate Drawing and Painting and/or Teacher Permission

Credits: 2.0 Fine Art

This year-long course is for students who have completed Intermediate Drawing and Painting. 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.

Textbook(s): Exploring Painting; Discovering Drawing, ISBN 9781615286682; and Experience Painting, ISBN 9781615282708

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*.

World Art: Pre Diploma Program

Course Code: 614213

Prerequisites: *Pre-Diploma Program (PDP) student*

Credits: 1.0 Fine Arts

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): None

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.

Textbook(s): *Dance Anatomy*: ISBN 9780736081931; *Dance Composition: An Interrelated Arts Approach*, ISBN: 9780736067904; *Discovering Dance*, ISBN: 9781450468862; *Experiencing Dance* ISBN: 9781450421904; *History of Dance*, ISBN 9781492536697; and *Writing About Dance*, ISBN 9780736076104

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.

Textbook(s): *Dance Anatomy*: ISBN 9780736081931; *Dance Composition: An Interrelated Arts Approach*, ISBN: 9780736067904; *Discovering Dance*, ISBN: 9781450468862; *Experiencing Dance* ISBN: 9781450421904; *History of Dance*, ISBN 9781492536697; and *Writing About Dance*, ISBN 9780736076104

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; pirouettes and turns traveling. Students 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.

Textbook(s): *Dance Anatomy*: ISBN 9780736081931; *Dance Composition: An Interrelated Arts Approach*, ISBN: 9780736067904; *Discovering Dance*, ISBN: 9781450468862; *Experiencing Dance* ISBN: 9781450421904; *History of Dance*, ISBN 9781492536697; and *Writing About Dance*, ISBN 9780736076104

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. Informal in class performance assessments and formal stage performances will be required. There will also be written and oral Ballet vocabulary assessments.

Textbook(s): *Dance Anatomy*: ISBN 9780736081931; *Dance Composition: An Interrelated Arts Approach*, ISBN: 9780736067904; *Discovering Dance*, ISBN: 9781450468862; *Experiencing Dance* ISBN: 9781450421904; *History of Dance*, ISBN 9781492536697; and *Writing About Dance*, ISBN 9780736076104

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.

Textbook(s): *Dance Anatomy*: ISBN 9780736081931; *Dance Composition: An Interrelated Arts Approach*, ISBN: 9780736067904; *Discovering Dance*, ISBN: 9781450468862; *Experiencing Dance* ISBN: 9781450421904; *History of Dance*, ISBN 9781492536697; and *Writing About Dance*, ISBN 9780736076104

Dance Composition 2

Course Code: 707823

Prerequisites: Level 1 & Level 2 CVPA Dance courses & CVPA Dance Composition 1

Credits: 1.0 Fine Arts; VPA Dance Elective

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.

Textbook(s): *Dance Anatomy*: ISBN 9780736081931; *Dance Composition: An Interrelated Arts Approach*, ISBN: 9780736067904; *Discovering Dance*, ISBN: 9781450468862; *Experiencing Dance* ISBN: 9781450421904; *History of Dance*, ISBN 9781492536697; and *Writing About Dance*, ISBN 9780736076104

Dance Production

Course Code: 708003

Prerequisites: Level 3 Dance

Credits: 1.0 Fine Arts; VPA Dance Elective

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

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.

Textbook(s): *Dance Anatomy*: ISBN 9780736081931; *Dance Composition: An Interrelated Arts Approach*, ISBN: 9780736067904; *Discovering Dance*, ISBN: 9781450468862; *Experiencing Dance* ISBN: 9781450421904; *History of Dance*, ISBN 9781492536697; and *Writing About Dance*, ISBN 9780736076104

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.

Textbook(s): *Dance Anatomy*: ISBN 9780736081931; *Dance Composition: An Interrelated Arts Approach*, ISBN: 9780736067904; *Discovering Dance*, ISBN: 9781450468862; *Experiencing Dance* ISBN: 9781450421904; *History of Dance*, ISBN 9781492536697; and *Writing About Dance*, ISBN 9780736076104

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.

Textbook(s): Dance Anatomy: ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance ISBN: 9781450421904; History of Dance, ISBN 9781492536697; and Writing About Dance, ISBN 9780736076104

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.

Textbook(s): Dance Anatomy: ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance ISBN: 9781450421904; History of Dance, ISBN 9781492536697; and Writing About Dance, ISBN 9780736076104

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.

Textbook(s): Dance Anatomy: ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance ISBN: 9781450421904; History of Dance, ISBN 9781492536697; and Writing About Dance, ISBN 9780736076104

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance ISBN: 9781450421904; History of Dance, ISBN 9781492536697; and Writing About Dance, ISBN 9780736076104

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance ISBN: 9781450421904; History of Dance, ISBN 9781492536697; and Writing About Dance, ISBN 9780736076104

Pointe Ballet 1

Course Code: 707413

Prerequisites: Successful Completion of Ballet 1 and Teacher Recommendation Grades 10 and 11)

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.

Textbook(s): Dance Anatomy, ISBN 9780736081931; Dance Composition: An Interrelated Arts Approach, ISBN: 9780736067904; Discovering Dance, ISBN: 9781450468862; Experiencing Dance ISBN: 9781450421904; History of Dance, ISBN 9781492536697; and Writing About Dance, ISBN 9780736076104

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): None

Repertory Dance

Course Code: 706903

Prerequisites: Audition/Teacher Recommendation

Credits: 1.0 Fine Arts; VPA Dance Elective

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

Dance Repertory 2

Course Code: 706913

Prerequisites: Audition/Teacher Recommendation

Credits: 1.0 Fine Arts; VPA Dance Elective

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): None

Dance Repertory 3

Course Code: 706923

Prerequisites: Audition/Teacher Recommendation

Credits: 1.0 Fine Arts; VPA Dance Elective

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): None

Dance Repertory 4

Course Code: 706933

Prerequisites: Audition/Teacher Recommendation

Credits: 11.0 Fine Arts; VPA Dance Elective

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): None

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): Masterworks Press Sight-Singing Samples, Teacher selected choral repertoire

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): None

Dual Credit: Earning credit for MUS 1180 Applied Music Level II, or MUS 2070 Applied Music Level III, or MUS 2080 Applied Music Level IV at Prince George's Community College makes a student eligible for 646153 Applied Music Band DE credit.

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): Teacher selected piano repertoire

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): None

Dual Credit: Earning credit for MUS 1350 - Applied Music Strings I (Jazz Classical, Bass Guitar) at Prince George's Community College makes a student eligible for 646343 Applied Music Strings 1 DE course credit.

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): None

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): Masterworks Press Sight-Singing Samples, Teacher selected choral repertoire

Dual Credit: Earning credit for MUS 1030 Concert Choir at Prince George's Community College makes a student eligible for 646843 Concert Chorus DE credit.

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): None

Dual Credit: Earning credit for MUS 1110 - Large Jazz Ensemble at Prince George's Community College makes a student eligible for 647243 Jazz Ensemble DE course credit.

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, triads, 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.

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 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.

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; *Music for Sight Singing, 2nd Edition*, Robert W. Ottman; *Fifty Two Part Sight Reading Exercises*, Watson Crescendo

Piano Theory IV

Course Code: 647503

Prerequisites: Theory III or teacher recommendation

Credits: 1.0 Fine Arts

This full-year grade 11 or 12 course offers continuation instruction in the areas of written theory, piano keyboard, sight singing, aural dictation and computer applications. Topics include seventh chords, modulation, secondary dominate, and classical musical form and style.

Textbook(s): *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

Advanced Placement Music Theory

Course Code: 647603

Prerequisites: Application and orientation session; Piano Theory III or equivalent

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): *Tonal Harmony*

Visual and Performing Arts (VPA):

MEDIA ARTS

Media Arts Production 1

Course Code: 760523, 760553

Prerequisites: None

Credits: 1.0, 2.0 Fine Art

Students will demonstrate how to participate as effective personnel during the production process. Students will operate equipment and apply concepts and techniques from the three stages of the media arts production process. Project-based learning will be the central focus of this course. Students will formulate performance tasks using content-based literacy strategies.

Upon successful completion of this course (End of Year Assessments), students will be able to:

1. Design a digital media project
2. Construct schedules, budgets, permissions and other forms relative to planning a production
3. Organize the production workflow process
4. Perform as an effective and efficient production team member

Textbook(s): Video: Digital Communications & Production, ISBN 9781637765203; Video: Digital Communications & Production Workbook, ISBN 9781649258861; Media Now: Understanding Media, Culture, and Technology, Tenth Edition, ISBN 9781337578660

Media Arts Production 2

Course Code: 760533, 760563

Prerequisites: Successful completion of Media Arts Production 1

Credits: 1.0, 2.0 Fine Art

Students will demonstrate how to participate as effective personnel during the production process. Students will operate equipment and apply concepts and techniques obtained in level 1 to the stages of the media arts production. Project-based learning will be the central focus of this course. Students will formulate performance tasks using content based literacy strategies.

Upon successful completion of this course (End of Year Assessments), students will be able to:

1. Produce a daily morning program
2. Produce segments as assigned by PBS Student Reporting Labs
3. Construct schedules, budgets, permissions and other forms relative to planning a production
4. Organize the production workflow process
5. Perform as an effective and efficient production team member

Textbook(s): Video: Digital Communications & Production, ISBN 9781637765203; Video: Digital Communications & Production Workbook, ISBN 9781649258861; Media Now: Understanding Media, Culture, and Technology, Tenth Edition, ISBN 9781337578660

Media Arts Production 3

Course Code: 760543, 760573

Prerequisites: Successful completion of Media Arts Production 1 and 2

Credits: 1.0, 2.0 Fine Art

Students will learn advanced aspects of producing, directing, writing and reporting for the broadcasting of a news magazine. Students will be assigned duties throughout various aspects of the production process, thus exposing them to the major areas of production. Through in-class discussions, demonstrations, and hands-on experiences, students will be exposed to the rigor necessary to succeed in the Media Arts production field. Beginning the second quarter, this news magazine will air monthly on the PGCPs Media Arts Channel 96.

End of Year Assessments - Students will:

1. Utilize the correct vocabulary when producing.
2. Produce a news-magazine.
3. Operate cameras in studio and EFP configurations.

4. Maintain a production log and production calendar.
5. Prepare scripts according to established format.
6. Set up audio for production and post-production.
7. Set up lights for studio and field production.
8. Produce graphics for segment and show production.
9. Ability to manage time and meet strict deadlines.

Textbook(s): *Video: Digital Communications & Production*, ISBN 9781637765203; *Video: Digital Communications & Production Workbook*, ISBN 9781649258861; *Media Now: Understanding Media, Culture, and Technology, Tenth Edition*, ISBN 9781337578660

Media Arts Lab

Course Code: 760603 *Media Arts Lab - VPA Year 1*
 760623 *Media Arts Lab - VPA Year 2*
 760633 *Media Arts Lab - VPA Year 3*
 760643 *Media Arts Lab - VPA Year 4*

Prerequisites: Every Media Arts Major should be enrolled in this course

Credits: 1.0 Fine Art

The Media Arts Majors have an extended day. The curriculum builds on what they are learning in their Media Arts Production I, II, and III classes with extended activities and longer-term projects.

This course is for the 5th Mod schedule of the Media Arts VPA program at Suitland High School and Northwestern High School. Media Arts majors will continue their work in Media Arts Production: All students in the Media Arts Production program will have the opportunity to develop the knowledge and skills needed for creating a media production. They will be exposed to a curriculum that fosters an appreciation for media literacy, ethics, design, and innovation. The program will enhance interdisciplinary studies as outlined by the MSDE Curriculum and the Common Core Standards related to English, Math, Social Studies, Science, the Arts, and Technical Subjects. Learners will experience practical application, cross-curricular connections, and real-world exploration, which will promote effective communicators, dynamic team players, and service-oriented citizens.

Textbook(s): *None*

Mass Media

Course Code: 772803

Prerequisites: Successful completion of Media Arts Production 1 and 2

Credits: 1.0 Elective

The purpose of this course is to help students become critical viewers of Mass Media and become aware of the pervasive effects of Mass Media on society. Students will examine how new media technologies expand conventional types of communication, and they will trace the evolution of technology, content, audiences, and multiple delivery methods. Additionally, students will analyze the journalism industry as it evolves with the digital landscape toward immersive journalism and experiment with changes in its business model.

Textbook(s): *Media Now: Understanding Media, Culture, and Technology, Tenth Edition*, ISBN 9781337578660

Practicum in Media Arts - Internal Placement (Double Credit)

Course Code: 760613

Prerequisites: Successful completion of Media Arts Production 1, 2, and 3, and instructor's recommendation

Credits: 2.0 Elective

This course replaces Studio Assistantship (772003) and is updated and aligned with the MSDE Fine Arts Standards for Media Arts.

Students in this course mentor third-year students and continue to develop the aspects of digital storytelling, which includes: producing, directing, shooting and editing for the production of long term production projects, i.e., documentaries, video yearbooks, instructional videos, news magazines, film, news packages, podcast series, etc.

Seniors who have successfully completed the first three levels of Media Arts Production, but are ineligible to intern, or who opt to stay in the school building should register for this course. Although students registered for Media Arts Practicum are not reporting to a worksite, real-world projects, and deadlines should be set for assigned projects in order to prepare these students for the rigor of college, or career.

Students will be assessed on their written assignments, as well as their production activities. By Level IV, students have the tools to utilize the three phases of production to complete complex productions. It is the expectation that students will use prior knowledge as well as acquire new knowledge throughout this course.

Textbook(s): None

Internship in Media Arts - Internal Placement (Double Credit)

Course Code: 776023

Prerequisites: Successful completion of Media Arts Production 1, 2, and 3, and instructor's recommendation

Credits: 2.0 Elective

Seniors who have successfully completed the first three levels of Media Arts Production are eligible to enroll in the Internship in the Media Arts program. Students are placed at media production facilities in the Washington, D.C. Metropolitan area where they are able to put the skills learned in the classroom to practical use. Students will develop a knowledge and understanding of current and emerging technologies in order to become college and career-ready citizens equipped to successfully compete in the global society.

The internship requires that students report to their assigned job site on all scheduled days/times. The internship site will determine the start and end times for the internship. Times may vary based on the needs of the facility. Special projects may require additional weekday or weekend hours.

Textbook(s): None

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*

Directing

Course Code: 117000

Prerequisites: *Theatrical Design, Special Theatre Topics, Performance Styles, Playwriting*

Credits: 0.5 Fine Arts

This course is designed to teach students the technique of play directing and production management. Lectures present aesthetic and theoretical concepts that are explored in workshops. Each student is required to direct and analyze a one-act play.

Textbook(s): The Essential Theatre, ISBN 9781133307280; Plays for the Theatre, ISBN 9781133310693; The Wadsworth Anthology of Drama, ISBN 139781428288140

Performance Styles

Course Code: 115203

Prerequisites: *Acting Studio 1, Acting Studio 2*

Credits: 2.0 Fine Arts

The purpose of this 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

Playwriting

Course Code: 117010

Prerequisites: *Theatrical Design, Special Theatre Topics, Performance Styles*

Credits: 0.5 Fine Arts

This course is a creative writing course in the rudiments of playwriting, with special attention to the one-act play. Students are accepted on the basis of a portfolio.

Textbook(s): The Essential Theatre, ISBN 9781133307280; Plays for the Theatre, ISBN 9781133310693; The Wadsworth Anthology of Drama, ISBN 139781428288140

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

Script Analysis

Course Code: 117030

Prerequisites: *Theatre History*

Credits: 0.5 Fine Arts

This course provides students with a technique for analyzing any text by breaking down scenes into objectives, conflicts, beats, activities and subtext, allowing the actor to construct an approach to finding character.

Textbook(s): The Essential Theatre, ISBN 9781133307280; Plays for the Theatre, ISBN 9781133310693; The Wadsworth Anthology of Drama, ISBN 139781428288140

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

Stagecraft

Course Code: 117040

Prerequisites: None

Credits: 0.5 Fine Arts

This course offers the theory and practice of construction and rigging of stage scenery. Emphasis is on actual productions and road show set-ups. Students work in various shops and stages specializing in different areas such as carpentry, scenic painting, lighting and electrics, costumes and props, assisting main stage productions under the supervision of the design or technical staff.

Textbook(s): *The Essential Theatre*, ISBN 9781133307280; *Plays for the Theatre*, ISBN 9781133310693; *The Wadsworth Anthology of Drama*, ISBN 139781428288140

Theatre VPA

Course Code: 128500

Prerequisites: None

Credits: 0.5 Fine Arts

This course introduces the fundamentals of acting to help the student “discover themselves through improvisation and other exercises. It also grounds the student in basic acting theory.

Textbook(s): *The Essential Theatre*, ISBN 9781133307280; *Plays for the Theatre*, ISBN 9781133310693; *The Wadsworth Anthology of Drama*, ISBN 139781428288140

Theatre History

Course Code: 117060

Prerequisites: VPA Theatre, Stagecraft, Acting Studio I

Credits: 0.5 Fine Arts

Quarter 1 - Students will study the history of theatre from Greeks to Shakespeare, reading selected plays and tracing the history of theatre into dramatic texts generated at particular times and places.

Quarter 2 - Students will study the history of Western Europe and the U.S. from the end of the 17th century to present, focusing on the production of theatre in its historical, social and ideological contexts. Students will study representative plays.

Textbook(s): *The Essential Theatre*, ISBN 9781133307280; *Plays for the Theatre*, ISBN 9781133310693; *The Wadsworth Anthology of Drama*, ISBN 139781428288140

Theatre Practicum

Course Code: 117100

Prerequisites: Student must be in the Senior Year

Credits: 1.0 Fine Arts

This course is the senior capstone and is intended for theatre students in their final year. Depending on the required abilities, students will be able to design sets, lights, costumes, props, or sound for a mainstage production. Students can choose to have the opportunity to design and improve a new organizational system for the Visual and Performing Arts Program.

Textbook(s): *The Essential Theatre*, ISBN 9781133307280; *Plays for the Theatre*, ISBN 9781133310693; *The Wadsworth Anthology of Drama*, ISBN 139781428288140

Dual Credit: Earning credit for THE 1401 Production Method at Prince George's County Community College makes a student eligible for 117113 Theatre Practicum DE credit.

Theatrical 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.

Visual and Performing Arts (VPA):

VISUAL ARTS

Advanced Placement Studio Art - Drawing Portfolio

Course Code: 613203

Prerequisite: Art 1, Art 2 or Departmental waiver and Teacher Recommendation

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*

Introduction to Computer Graphics (CVPA)

Course Code: 619713

Prerequisite: VPA Level 1 student

Credits: 2.0 Fine Arts

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 traditional 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, ISBN 9780871929891

Introduction to Computer Graphics VPA

Course Code: 619923

Prerequisites: VPA Level 2 student

Credits: 1.0 Fine Arts

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 traditional 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, ISBN 9780871929891

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

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 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 VPA

Course Code: 616413

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: 616503

Prerequisites: *VPA Completion of Level Year 1*

Credits: 1.0 Fine Arts

In this introductory course, students are taught planographic and intaglio methods. Topics include an introduction to various methods of creating prints; etching and monotype processes; and visual presentations, hands-on demonstrations and field trips. The historical and theoretical aspects of printmaking 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: 616513

Prerequisites: *VPA Completion of Level Year 1*

Credits: 1.0 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 the elements and principles of design and their application to sculpture; the generalities of organic and geometric form; the concept of an architectural framework; the history of sculpture in western civilization; multicultural influences on contemporary concept of sculpture; sculpture's historical relationship to architecture; truth to materials and artful deception; the relationship of form to meaning and feeling; the interaction of sight and touch; how sculptors get started; traditional and experimental materials and how they work; sources of sculptural inspiration (historical, contemporary and personal); emphasis on papier mache, plaster and clay; and 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 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 student will be able to communicate basic language functions such as introducing oneself, asking for and giving information, asking for directions, making requests, and talking about activities. Videotapes support observation and practice.

Textbook(s): *Master ASL!*, ISBN 9781881133209

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 will 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): IB Materials

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): IB Materials

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

Advanced Placement Chinese 5

Course Code: 188413

Prerequisites: Chinese level 4

Credits: 1.0 World Language

The AP Chinese Language and Culture course in Mandarin Chinese emphasizes communication and understanding and being understood by others by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness.

Textbook(s): *Zhen Bang!*

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Chemins: French for a Connected World, Level 1*, ISBN 9781543370140

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Chemins: French for a Connected World, Level 2*, ISBN 9781543370409

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): *Chemins: French for a Connected World, Level 2*, ISBN 9781543370409

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): *Chemins: French for a Connected World, Level 2*, ISBN 9781543370409

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Chemins: French for a Connected World, Level 3*, ISBN 9781543370492

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): Chemins: French for a Connected World, Level 3, ISBN 9781543370492

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): Chemins: French for a Connected World, Level 4, ISBN 9781543370584

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 et 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): D'Accord 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): D'Accord 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 *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 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 Deutsch 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): *Immagina*, 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): *Immagina*, 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 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 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.

Textbook(s): *Genki 1: An Integrated Course in Elementary Japanese 1*, ISBN 9784789014403

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.

Textbook(s): *Genki 1: An Integrated Course in Elementary Japanese 1*, ISBN 9784789014403

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): None

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.

Textbook(s): *Genki 2: An Integrated Course in Elementary Japanese 2*, ISBN 9784789014434

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.

Textbook(s): *Genki 2: An Integrated Course in Elementary Japanese 2*, ISBN 9784789014434

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.

Textbook(s): *An Integrated Approach to Intermediate Japanese*, ISBN 9784789013079 and College Board materials

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

In the second year of Korean, 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 Korean writing and cultural information.

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..

Textbook(s): Dynamic Korean 2, ISBN 9780578048659

Korean 4

Course Code: 193043

Prerequisites: Korean 3

Credits: 1.0 World Language

Level 4 Korean will have extensive use of informal speech forms, while expanding vocabulary for daily life situations. 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 novels. Students will spell Hangeul and use Sino-Korean numbers with accuracy.

Textbook(s): Dynamic Korean 2, ISBN 9780578048659

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.

Textbook(s): Cambridge Latin Course Units 1 and 2, 5th edition, ISBN 9780521782289

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 grammar, figures of speech, mythological and historical background, and reading aloud and analyzing epic poetry. Some selections of other poets such as Horace, Juvenal, Ovid, and Martial are also read.

Textbook(s): Vergil's Aeneid Books I-VI

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: None
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: Portugese 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.

Textbook(s): Ponto de Encontro, Portuguese as a World Language, Second Edition, ISBN 9780205782765

Portuguese 3

Course Code: 170023
Prerequisites: Portugese 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.

Textbook(s): Ponto de Encontro, Portuguese as a World Language, Second Edition, ISBN 9780205782765

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

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

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Senderos*, ISBN 9781680051902

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Senderos*, ISBN 9781680051926

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): *Senderos*, ISBN 9781680051926

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): None

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Senderos*, ISBN 9781680051940

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): *Senderos*, ISBN 9781680051964

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 novella 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 diagnostic 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-low to mid level. The course will emphasize reading and writing, critical thinking, culture, literary exposure, and improving speaking skills.

Textbook(s): *Galeria A, Galeria A-C Supersite*, Vista Higher Learning, Inc.

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): *Galeria B, Galeria A-C Supersite*, Vista Higher Learning, Inc.

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): *Galeria C, Galeria A-C Supersite*, Vista Higher Learning, Inc.

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: None

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. Check www1.pgcps.org/dualenrollment for dual credit updates.

Textbook(s): None

Dual Credit: Earning credit for SPN 2040 Spanish Advanced Conversation or FRN 2050 French Conversation at Prince George's County Community College makes a student eligible for 198233 World Language Conversation DE credit.

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 state standards.

Textbook(s): None

Foundations of Interpreting and Translation

Course Code: 198103

Prerequisite: Three (3) World Languages credits in the same language; or native speaker w/ACTFL intermediate-high proficiency (or EOY level 3 Assessment equivalent)

Credits: 1.0 Elective

This course is a practical introduction to the field of interpreting and translation. Students will gain an understanding of the history, theoretical concepts, standards, and essential aspects of oral interpreting and written translation. The course will address the fundamentals of consecutive and simultaneous interpreting and the role of interpreters. Additionally, students will engage in practical analysis to understand the extensive work behind the development of translations. Students will be exposed to problem-solving and decision-making skills that are applicable within the profession and beyond, using the World Languages Standards.

Textbook(s): *The Community Interpreter - An International Textbook*, ISBN 9780982316672

World Languages

IMMERSION

Chinese/Language Arts 9

Course Code: 172823

Prerequisites: Chinese Immersion 9th Grade 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.

Textbook(s): *Modern Chinese 2A (2013)*, Better Chinese, ISBN BK000706M

Chinese/Language Arts 10

Course Code: 172843

Prerequisites: Chinese Immersion 10th Grade 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.

Textbook(s): Modern Chinese 2B (textbook), Better Chinese, ISBN 9781606034903; Modern Chinese 2B (workbook), Better Chinese, ISBN 9781606034910

Chinese Immersion Pop Culture 9

Course Code: 172813

Prerequisites: Chinese Immersion 9th grade student

Credits: 1.0 Elective

This course is designed to provide Chinese Immersion students the opportunity to build on reading, writing, listening and speaking through real-life connections and exploration of the Chinese-speaking world through videos, songs, and news.

Textbook(s): Current magazine articles, online current event resources

Chinese Immersion Pop Culture 10

Course Code: 172833

Prerequisites: Chinese Immersion 10th grade student

Credits: 1.0 Elective

This course is designed to provide Chinese Immersion students the opportunity to build on reading, writing, listening and speaking through real-life connections and exploration of the Chinese-speaking world through videos, songs, and news.

Textbook(s): Current magazine articles, online current event resources

French/Language Arts 9

Course Code: 158713

Prerequisites: French Immersion 9th Grade 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.

Textbook(s): Aya de Yopougon, ISBN 2070575888 and L'aventure ambiguë, ISBN 2264036931; Imaginez, ISBN 9781543375633; Imaginez (student activities manual), ISBN 9781543375664

French/Language Arts 10

Course Code: 158723

Prerequisites: French Immersion 10th grade 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.

Textbook(s): *Le petit Prince*, ISBN 9780156013987 and *Une saison en enfer*, ISBN 2070319555; *Perspectives*, ISBN 9781543333213; *Perspectives (student activities manual)*, ISBN 9781543333251

French/Language Arts 11

Course Code: 158733

Prerequisites: French Immersion 11th grade 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 .

Textbook(s): *Thèmes*, Vista Higher Learning (2022), ISBN 9781543329117; *L'étranger*, ISBN 0135307902 and *Une si longue lettre*, ISBN 0320075710

French/Language Arts 12

Course Code: 158743

Prerequisites: French Immersion 12th grade student

Credits: 1.0 World Language

This 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.

Textbook(s): *Face-à-Face*, Vista Higher Learning (2021), ISBN 9781543308921; *Jacques le fataliste*, ISBN 1502487047 and *Candide*, ISBN 9781503253797

French Immersion Pop Culture 9

Course Code: 158773

Prerequisites: French Immersion 9th grade student

Credits: 1.0 Elective

This course is designed to provide French Immersion students the 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 *Môme*, Eli magazine

French Immersion Pop Culture 10

Course Code: 158753

Prerequisites: French Immersion 10th grade student

Credits: 1.0 Elective

This course is designed to provide French Immersion students the 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 Immersion 12th grade 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

French Modern Literature Grade 12

Course Code: 158793

Prerequisites: French Immersion 12th grade student

Credits: 1.0 Elective

This required course is a survey of major French novels and literary works from 20 th and 21 st century for students who have a high intermediate proficiency in French (this course is conducted in French). Students will also use critical reading and thinking skills to analyze fiction (including novels) and non-fiction literary genres from world literature. Students explore a variety of authors, works and subgenres. Through reading a variety of works themes, literary motifs and stylistic devices are analyzed. Students examine how various works reflect sociopolitical and historical contexts in the francophone world. Finally, students reflect on which beliefs and values are presented in the works they read. 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. Finally, students reflect on which beliefs and values are presented in the works they read.

Textbook(s): Novels, Short Stories, Poems.

Spanish/Language Arts 9

Course Code: 168823

Prerequisites: Spanish Immersion 9th Grade 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.

Textbook(s): *Galería C*, Vista Higher Learning, (2020) ISBN 9781543324235

Spanish Immersion Pop Culture 9

Course Code: 168813

Prerequisites: Spanish Immersion 9th grade student

Credits: 1.0 Elective

This course is designed to provide Spanish Immersion students the opportunity to build on reading, writing, listening and speaking through real-life connections and exploration of the Spanish-speaking world through videos, songs, and news.

Textbook(s): Current magazine articles, online current event resources

Spanish/Language Arts 10

Course Code: 168843

Prerequisites: Spanish Immersion 10th Grade 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.

Textbook(s): *En Vol Alta: Espanol para hispanohablantes Level 1*, ISBN 9781638621102; *En Vol Alta: Espanol para hispanohablantes Level 1(workbook)*, ISBN 9781638621126

Spanish Immersion Pop Culture 10

Course Code: 168833

Prerequisites: Spanish Immersion 10th grade student

Credits: 1.0 Elective

This course is designed to provide Spanish Immersion students the opportunity to build on reading, writing, listening and speaking through real-life connections and exploration of the Spanish-speaking world through videos, songs, and news.

Textbook(s): Current magazine articles, online current event resources

HIGH SCHOOLS

Academy of Health Sciences at PGCC	301-583-1593
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
Crossland Evening High.....	301-449-4994
Crossland High.....	301-449-4800
Dr. Henry A. Wise, Jr. High.....	301-780-2100
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
Gwynn Park High.....	301-372-0140
High Point High.....	301-572-6400
International High School at Langley Park.....	301-702-3910
International High School at Largo	301-702-3810
Largo High.....	301-808-8880
Laurel High	301-497-2050
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

PHONE DIRECTORY

Contact appropriate program personnel for further information. For updates to phone information, see the PGCPs phone directory online at www1.pgcps.org.

Advanced Programs (AP, IB, AVID, P/SAT, ACT)	301-808-8275
Advanced Technology Education	301-669-6012
Area 1 Office	301-669-6010
Area 2 Office	301-669-6060
Area 3 Office	301-669-6000
Business Education	301-669-6012
Code of Maryland Regulations	www.dsd.state.md.us ; 800-633-9657
College Career Reserach Development	301-669-6012
College Readiness (Dual Enrollment)	301-499-9222
Creative and Performing Arts	301-808-8317
Curriculum and Instruction	301-808-8240
Dance	240-696-6376
Department of Test Administration	301-702-3860
Distance Learning	301-386-1624
Drama	301-808-8317
Family and Consumer Sciences	301-669-6012
Fine Arts	301-808-8317
Foreign Language	301-808-8265
Health Education	301-808-4080
Immersion	240-455-5899
Maryland State Department of Education	www.marylandpublicschools.org ; 888-246-0016
Mathematics	301-749-5610
Media Art	301-808-8317
Military Science	301-669-6012
Music (Vocal/General)	301-333-0961
Music (Instrumental)	301-333-0963
Physical Education	301-333-0970
Prince George's Community College	www.pgcc.md.us ; 301-322-0866
Prince George's County Public Schools	www1.pgcps.org ; 301-952-6000
Reading/English Language Arts	301-808-8284
School Counseling	301-567-8669
Science	301-808-8256
Service Learning	301-808-5956
Social Studies	301-808-8246
Special Area Programs	301-808-2594
Special Education	301-702-2890
Talented and Gifted (TAG)	301-803-3790
Career Technical Education	301-669-6012
Technology Education	301-669-6012
University System of Maryland	www.usmd.edu ; 301-445-2740

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