



The Canon-McMillan School District is committed to affirmative action to assure equal opportunity for all persons regardless of race, color, religion, national origin, ancestry, sex, or handicap. Inquiries should be directed to Mr. Scott Chambers, Title IX, Section 504 Coordinator, Administration Office, #1 North Jefferson Avenue, Canonsburg, PA 15317, Phone (724) 746-2940.

---

**PROGRAM OF STUDIES  
CANON-McMILLAN HIGH SCHOOL  
314 Elm Street Extension  
Canonsburg, PA 15317  
724-745-1400**

**PRINCIPAL**

Mr. Kenneth E. Crowley - extension 5014

**ASSISTANT PRINCIPALS**

Mrs. Lorien C. Moyer – extension 5004

Mrs. Diana Fronczek- extension 5010

TBD- extension 5003

**COUNSELORS**

A-De Mrs. Karen Rubican - extension 5022

Di-Kh Mrs. Susan Humbertson - extension 5027

Ki-O Mrs. Nadia Abbondanza - extension 5021

P-Sc Mrs. Kathleen Sharkady - extension 5023

Se-Z Miss Brittany Taylor - extension 5020

**PLEASE BE ADVISED THAT THE COURSE OFFERINGS IN THIS BOOK REPRESENT COURSES THAT MAY BE OFFERED DURING THE 2020-2021 SCHOOL YEAR. DUE TO CUTS IN STATE FUNDING, CHANGES IN PROGRAMMING, AND OTHER REASONS, THERE IS A POSSIBILITY THAT COURSES MAY BE CUT FROM THIS LIST OF POSSIBLE OFFERINGS. IN THAT EVENT STUDENTS MAY BE ASKED TO MAKE ALTERNATIVE SELECTIONS TO FULFILL GRADUATION REQUIREMENTS.**

**Dear Parent(s)/Guardian(s) and Students,**

This Program of Studies is distributed to explain the 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade curricula and course options offered at Canon-McMillan High School for the 2020-2021 school year. In addition to the course offerings, the Program of Studies contains descriptions of the courses, graduation requirements, and information about special programs available to our students.

*Course selection will be completed online and during school hours.* Prior to selection by the student, he/she should consult his/her parents/guardians, teachers and appropriate school personnel. It is imperative that the student ensures all academic requirements are met in order to graduate in a timely fashion.

Please take the opportunity to review the course offerings carefully to be certain that you are selecting courses that are of a personal interest and that will fulfill the graduation requirements established by the Canon-McMillan School District. Be certain that you have met the necessary Prerequisite for each course requested. If you have questions about course selections, please consult with your counselor and teachers.

Sincerely,

Kenneth E. Crowley, M.Ed.

Principal

Canon-McMillan High School

724-745-1400 x 5014

## TABLE OF CONTENTS

Introduction	2
General Graduation Requirements	3
Graduation with Distinction	3
Honor Roll	3
Class Rank	4
Academic or College Prep Curriculum	4
Advanced Placement Program	4-5
Courses of Study Offered at WACTC	5
Cooperative Education Program	5
Alternate Graduation Requirements for WACTC	6
Scheduling Requirements	6
Schedule Change Information	6
Summer School	6
Learning Support Program	7
Gifted Program	7
High School Media Center	7
Course Descriptions:	
Art	9-10
Business Education	11-14
English	15-18
Family & Consumer Science	19
Foreign Language	20-23
Health and Physical Education	24
Mathematics	25-29
Music	30-31
Science	32-39
Social Studies	40-43
Technology Education	44-46
Other Educational Programs	47

### INTRODUCTION

This booklet embodies a variety of information about specific course offerings. The graduation requirements are also specified. They should be read thoroughly by both students and their parents/guardians as they must be fulfilled by every student. Students and their parents/guardians also need to consider the courses that will meet their future professional and/or educational goals. Additionally, a student's ability and motivation are also considerations.

Members of the school counseling department will meet at minimum on a bi-yearly basis with the incoming freshmen and upperclassmen planning to continue their educational programming at Canon-McMillan High School. Specific details of the scheduling process will be discussed, and questions will be answered in both small group and individual sessions.

This publication is only one avenue for students in choosing their future courses. Students need to discuss potential course offerings with their current teachers and assigned school counselor regarding future scheduling in specific academic areas. At home, students along with their parents/guardian should thoroughly discuss course planning options and accurately complete a course selection sheet. After the signed course selection sheet is returned, the student and/or his or her parents/guardians should make appointments with the assigned counselor if adjustments are needed. Once the scheduling process is completed, adjustments are seldom granted.

## GRADUATION REQUIREMENTS

As per Policy #217, the number of credits needed to graduate is **26** planned course units (credits). Thus, students will need to earn **6.75** planned course units (credits) per year to graduate. The Canon-McMillan School District requires students to complete the minimum planned course units (credits) through successful completion of course requirements established by the Canon-McMillan School District and the Pennsylvania Board of Education. **Students must also satisfactorily complete a Graduation Project and demonstrate proficiency on required standardized tests or complete remedial work prior to graduation.**

English – 4 sequential course units\* - minimum one course per year.

Math – 4 course units\* - Algebra & Geometry units required. Continuous enrollment in Math all 8 semesters in high school. See note 1.

Social Studies – 4 required course units.\*

Science – 3 full year course units\* - Biology required.

Physical Education/Health – 1 semester of Health; Yearly program in P.E.

Freshman Seminar– 1 semester

All additional courses will be electives, including 2 course units which must be from the Arts and Humanities discipline areas.

\* Course units are two (2) semesters

## HIGH SCHOOL GRADUATION PROJECT

As a component of the graduation requirements outlined by the Canon-McMillan School District, all students will complete a Graduation Project in one or more areas of concentrated study under the guidance and direction of the high school faculty. The Graduation Project should be relevant to the student and presented through a medium that is most appropriate to communicate its purpose. The Project must be completed according to the criteria established by the High School Graduation Project Committee. The Graduation Project will have several components, including developing a plan, selecting a presentation format, establishing a set of procedures and setting a time frame.

## GRADUATION WITH DISTINCTION

High School Diploma – The student has satisfied graduation requirements.

High School Diploma of Distinction – The student has satisfied graduation requirements in addition to the following criteria:

- a. **Summa cum laude**- issued to those students with a cumulative grade point average of **4.0 or higher**.
- b. **Magna cum laude**- issued to those students with a cumulative grade point average of **at least a 3.7, but less than a 4.0**.
- c. **Cum laude**- issued to those students with a cumulative grade point average of **at least a 3.0, but less than a 3.7**.

## HONOR ROLL

Distinguished Honors 4.0 and above

High Honors 3.7 – 3.99

Honors 3.0 – 3.69

# THE CANON-McMILLAN SCHOOL DISTRICT DOES NOT MAINTAIN CLASS RANK FOR STUDENTS.

## ACADEMIC/COLLEGE PREPARATORY CURRICULUM

Since the student who is preparing for college admission is faced with a wide variety of admission requirements, it is wise to prepare as fully as possible. Students must make themselves aware of the varying entrance requirements early and plan accordingly.

Colleges and universities are constantly changing admissions requirements. It is no longer possible to make “blanket statements” concerning college admission. A student is encouraged to continue his/her work in the academic courses as long as they are meeting all requirements in their current classes. We do not encourage student selection of inappropriate courses solely for the purpose of “needing it for college admission.” All core courses are college preparatory in nature; students are encouraged to take a rigorous course load as agreed upon by parents/guardians and faculty.

For the most part, the minimum college admission requirements are four credits in English, three credits in academic mathematics, three credits in science, two credits in the same foreign language area of study, three credits in social studies, and as many electives as possible. The current Canon-McMillan graduation requirements exceed some of these prerequisite college admission requirements. Specific course requirements vary by major and college, it is imperative that you share your post-secondary educational interests with your school counselor as soon as possible.

Admission may also be granted to some post-secondary institutions with less than the minimum requirements indicated. However, any student having less than the minimum requirements has a more narrow selection of career and college choices.

Athletes must be sure to meet the current course requirements of the National Collegiate Athletic Association, including meeting the academic eligibility requirements. Please see your school counselor for information on and completion of the NCAA Clearinghouse process at [www.eligibilitycenter.org](http://www.eligibilitycenter.org). Courses at Canon-McMillan that are accepted by the NCAA will have *NCAA approved* noted in the course description.

## THE ADVANCED PLACEMENT PROGRAM

The Advanced Placement (AP) Program is a cooperative educational endeavor with the College Board and is designed for students to secure college credit while in high school. Entrance into the program is based on a student's grades and teacher recommendations.

AP courses require a great amount of study on the part of the student. They carry one additional full academic quality point and are weighted at 5.0, and normally meet five class periods each week (exception – AP Biology, AP Chemistry, and AP Physics which meet minimum of seven periods a week). In addition, the student is required to spend at least one hour on homework for each hour in the classroom. **It is the expectation of the Advanced Placement Program and Canon-McMillan High School that students enrolling in AP courses are to take the AP exam at the end of the year. All costs of AP Testing are the responsibility of the student. Fee reductions are available to students who qualify. See your school counselor.**

Please note: The weighted credit is only given to students earning a C or better in the course. For example, the following point values are assigned, (A=5), (B=4), (C=3), (D=1), (F=0).

Presently, the following AP courses are offered in the following discipline areas at Canon-McMillan High School:

AP Biology	AP Music Theory
AP Calculus AB	AP Psychology
AP Calculus BC	AP Physics 1
AP Chemistry	AP Physics C
AP Computer Science A	AP Spanish
AP Computer Science Principles	AP Statistics
AP Environmental Science	AP Studio Art
AP European History	AP United States History
AP French	AP World History
AP Literature and Composition	

**A student interested in scheduling AP courses should meet the following criteria:**

Be a conscientious, diligent worker

Demonstrate a high degree of interest in the subject area

Attain the required teachers' recommendations and fulfill course Prerequisite

Have the encouragement of his or her parents/guardians

Demonstrate a commitment in taking the Advanced Placement examination in the spring.

**COURSES OF STUDY OFFERED AT THE WESTERN AREA CAREER AND TECHNOLOGY CENTER:**

Students who fail to maintain academic requirements may be subject to Summer School or removed from WACTC.

<u>Course Level</u>	<u>Grade Level</u>	<u>Course#</u> AM PM	<u>Program</u> <u>Years</u>	<u>Credits</u> <u>Issued</u>
Heating & Air Conditioning	10-11-12	1000/4000	3	4.0
Collision Repair Technology	10-11-12	1005/4005	3	4.0
Auto Mechanics	10-11-12	1010/4010	3	4.0
Carpentry	10-11-12	1025/4025	3	4.0
Cosmetology	10-11-12	1030/4030	3	4.0
Networking	10-11-12	1035/V4071	3	4.0
Electrical Occupation	10-11-12	1045/4045	3	4.0
Health Assistant	10-11-12	1050/4050	3	4.0
Machine Shop	10-11-12	1055/4055	3	4.0
Welding	10-11-12	1060/4060	3	4.0
Culinary Arts	10-11-12	1065/4065	3	4.0
Masonry	10-11-12	1070/V4070	3	4.0
Emergency Protective Services	10-11-12	1075/4075	3	4.0
Automation and Robotics Engineering Technology	10-11-12	1076/4076	3	4.0

**COOPERATIVE EDUCATION**

Cooperative Education (Co-op) is an educational work experience for students to relate classroom experience to real world employment. It is available to vocational students in all provided specialized areas at Western Area Career and Technology Center. Students connect classroom learning with work based learning experiences that teach employability skills and support supervised on-the-job training. Co-op provides students an opportunity to work with employers, educators, community leaders, other students and parents. It prepares students for the “real world.” This program enables students to match specific career objectives with paid employment experiences while they attend planned periods of related classroom theory during school. This program is only offered to Seniors who are in good academic standing, with good attendance, and who have received the recommendation of their WACTC teacher.

## EXAMPLE SCHEDULE FOR WACTC

<u>GRADE 9</u>		<u>GRADE 10</u>		<u>GRADE 11</u>		<u>GRADE 12</u>	
English	1.00	English	1.00	English	1.00	English	1.00
Social Studies	1.00	Biology	1.00	Mathematics	1.00	Science	1.00
Mathematics	1.00	Mathematics	1.00	Social Studies	1.00	Social Studies	1.00
Science	1.00	WACTC	4.00	WACTC	4.00	WACTC	4.00
**Elective	1.5	Physical Ed		Physical Ed		Physical Ed.	
			.25		.25		.25
Physical Ed	.25	<b>Total</b>	<b>7.25</b>		<b>7.25</b>		<b>7.25</b>
Health	.50						
Freshman Seminar	.50						
<b>Total</b>	<b>6.75</b>						

Total credits needed ..... 26.00

Total credits with proposed scheduled ... 28.00

\*Electives in grade 9-12 must include two credits in the Arts or Humanities disciplines

## SCHEDULING REQUIREMENTS

All students must carry a minimum of 6.75 credits each year, including the state mandated physical education requirement and a lunch period.

Students failing a required subject are to include it on their course selection for the following year, or to make plans to take it in an approved summer school program. All students are encouraged to schedule as many courses as possible to enrich their program of study and to improve their class rank.

In order to take the second year of a sequential subject, students should pass the first year by earning at least a “C” or better unless otherwise indicated by course Prerequisite. Students who earn a “D” and wish to continue in any sequential subject, such as a language or a math course, may improve their skills either by going to summer school or by repeating the course.

**Special attention should be given to subjects that must be taken concurrently.**

## SCHEDULE CHANGES

For the 2020-2021 school year, all schedule change requests must be completed via the online form, available on the High School website, prior to the commencement of the first day of school. This includes second semester changes for classes that start in January 2021. A form will be made available to students, starting in August, who need to make changes beyond those deadlines and who meet a required set of criteria.

## SUMMER SCHOOL

It is the responsibility of the student to inform the guidance personnel when an approved summer school class (or classes) has been completed to ensure proper class assignments. Transcripts will remain incorrect if guidance personnel are not informed and if evidence of the completion (i.e., transcripts) are not received by the counseling department.

## **LEARNING SUPPORT PROGRAM**

Learning Support services are provided for those students in need of academic or emotional support as identified by an Individualized Education Program (IEP).

Students who meet the eligibility requirements for Learning Support services are enrolled in one or more areas in which specially designed instruction is provided based upon the student's need and the goals and objectives of the IEP.

## **GIFTED PROGRAM**

Gifted support services are provided for those students who meet the eligibility requirements (GIEP) as designated by federal and state guidelines.

# **HIGH SCHOOL MEDIA CENTER**

## **LIBRARY SCIENCE**

**Grades 9, 10, 11, 12**

The Library Science program is integrated throughout the high school curriculum to provide each student with information fluency. The program provides a wide range of resource materials and opportunities to develop information-seeking and management skills to use the selected resources. The high school librarian and classroom teachers plan collaborative learning experiences to achieve the goals articulated in the PA Core and the Common Core. The students develop and apply information literacy skills by exploring, analyzing and evaluating print and non-print resources, school subscription databases, POWER Library resources and Internet pathfinders. The use of Web tools and technology is an integral part of the library information experience. In addition, the program is directed toward developing and promoting lifelong reading by offering fiction and non-fiction materials. Through the use of an online citation tool and excellent reference materials, the Library Science program supports curriculum, research for various class projects, and for the senior graduation project.



# COURSE DESCRIPTIONS

The following courses may be taken at Canon-McMillan High School by students having fulfilled the proper Prerequisite.  
Sequential subjects must be taken in order.

# ART

## CONCEPT & CREATIVE THINKING

Grades 10, 11, 12

7503

Credit 1.00

### Prerequisite: MEDIA & TECHNIQUE

“Ideas”—future employers are seeking graduates who think creatively. In this course, students will work with a variety of art media as they develop creative thinking skills. Emphasis will be on providing opportunities that challenge the student to seek new ideas and unique solutions to artistic problems. **This course is recommended for higher level students with the ability to think abstractly.**

## FORM AND FUNCTION

Grades 10, 11, 12

7512

Credit 1.00

### Prerequisite: MEDIA & TECHNIQUE

Students will explore the form and function of objects, as they design and create useful and/or decorative items in a variety of media. Projects may include lanterns, bowls, mugs, jewelry and frames. Emphasis will be on design.

## INTRO TO ART

Grades 9, 10, 11, 12

7501

Credit .50

This course will provide the student with an understanding of the foundations of art, including aesthetics and art criticism, development of observational skills, composition and creative thinking. Students will work with a wide range of media and study significant works of art to develop both technical skills, and conceptual understanding.

## MEDIA & TECHNIQUE

Grades 9, 10, 11

7502

Credit 1.00

Students in this course will explore various two-dimensional and three-dimensional art media from watercolor to clay. Emphasis will be on developing technical skills. **This course is required for advancement in the art program.**

## OBSERVATIONAL DRAWING

Grades 9, 10, 11, 12

7509

Credit .50

Drawing and the ability to “see” is necessary to all visual art forms. This is a studio course designed for the serious art student to assist in developing observational skills and the ability to accurately and effectively create drawings from observation of subjects: objects, still-life, portrait, figure and landscape (live and photographed). This course requires additional sketchbook assignments to be completed outside of class.

## VISUAL ARTS COMMUNICATIONS

Grades 10, 11, 12

7508

Credit 1.00

### Prerequisite: MEDIA & TECHNIQUE

This course will provide the student with an in-depth understanding of the arts as a powerful communications tool throughout history as well as in today’s increasingly visual world. All work will be approached within a cultural/historical context with an emphasis on strengthening communication skills. **Students should be aware that this course involves reading and writing in conjunction with studio projects in order to facilitate learning about communication throughout history.**

## ADVANCED ART HONORS

Grades 11, 12

7506

Credit 1.00

Prerequisite: Interview/portfolio review and teacher recommendation. Advanced Art is designed for high school juniors or seniors who are considering the continuation of their art education at a university or college level pursuant to a career in the visual arts. Students will prepare a traditional and digital portfolio and gain comprehensive exhibit experience by active participation in a senior show. **This course requires extensive work outside of class and is recommended for higher level students with the ability to work independently.**

**AP STUDIO ART (ADVANCED PLACEMENT)**

**7510**

**Grade 12**

**Credit 1.50\***

**Prerequisite: A or B in Advanced Art (Honors) and teacher recommendation.** The AP Studio Art program is a national standard for performance in the visual arts. This course provides the high school senior with an opportunity to continue the individualized instruction and independent artistic pursuits initiated in Advanced Art Honors. It is blocked as a two period course for intensive studio work and will require extensive work outside of class.

**\*AP STUDIO ART (ADVANCED PLACEMENT) LAB**

**9810**

**Grade 12**

**Must be taken concurrently with AP STUDIO ART (ADVANCED PLACEMENT) Course 7510.**

**INTRODUCTION TO CERAMICS**

**7513**

**Grades 9, 10, 11, 12**

**Credit .50**

In this course, students explore the medium of clay through basic hand-building and wheel-throwing techniques. Hand-built techniques will explore coil, pinch-pot, drape and/or slab as well as sculpture construction. Wheel-throwing techniques will include centering, opening, raising and trimming. Students will also engage in fundamental glazing and firing techniques. All projects will include exposure to various tools, techniques and vocabulary.

# BUSINESS EDUCATION

## BUSINESS DEPARTMENT CURRICULUM

The curriculum of the Business Department at Canon-McMillan High School is designed to provide two pathways which will prepare students for an entry-level position in the workplace or provide them with core courses which will introduce them to careers in business as they further their education at a post-secondary institution.

Our computer technology courses provide specialized instruction on state-of-the-art equipment and software. With the exception of Prerequisite, the courses can be selected at any grade level and scheduled interchangeably during the course of their sophomore, junior, and senior years. With successful development of their skills, students may obtain workplace competencies to be employed upon graduation. The business core electives offer courses for students to explore various careers in business that may interest them when furthering their post-secondary education. This component of career clusters is comprised of accounting, finance, marketing, management, and law.

An integration of computer technology courses and career electives would provide an ideal schedule for interested students. The career education standards obtained in each cluster would complement each other to provide the best preparation for students interested in pursuing a career in business.

### COMPUTER TECHNOLOGY

Freshman Seminar (**Required**)

Advanced Excel – Microsoft Office Specialist (MOS) Certification

Advanced MS Word with MOS Certification

Advanced PowerPoint with MOS Certification

Desktop Publishing

Web Page Design and Development

### BUSINESS CORE

Accounting I

Accounting II

Accounting III Honors

Business and Consumer Law

Business Math

Entrepreneurship I

Entrepreneurship II

Personal Finance

Sports and Entertainment Management

Principles of Marketing

**\*Any college bound student interested in majoring in business should take as many of these electives as possible.**

#### **ACCOUNTING I**

**6601**

**Grades 10, 11, 12**

**Credit 1.00**

The student in Accounting I will be given an insider's view into the world of accounting. Concepts to be learned include the fundamentals of debits and credits, journalizing, posting in general and subsidiary ledgers, and preparing and analyzing financial statements. Accounting I will supplement textbook activities with relevant computer applications.

#### **ACCOUNTING II**

**6602**

**Grades 11, 12**

**Credit 1.00**

**Prerequisite: Accounting I.** This course further develops skills for the successful Accounting I student by giving a more in-depth and detailed view of the many aspects of accounting. Individual accounts will be examined and scrutinized in order to make sound business decisions. This course will also allow for successful financial reporting and analysis for the three primary business types: proprietorships, partnerships, and corporations. The students will also be introduced to accounting software and the use of spreadsheets.

**ACCOUNTING III HONORS****6603****Grade 12****Credit 1.00****Prerequisite: Successful Completion of Accounting II with a letter grade of “B” or better or consent by instructor.**

Students will develop advanced skills that build upon those acquired in Accounting II. Focus will be on accounting for a corporation, with an emphasis on financial reporting and analysis. Computerized accounting tools will also be utilized in great detail as students will be expected to show competence in spreadsheet and accounting software.

**ADVANCED EXCEL – MICROSOFT OFFICE SPECIALIST \*(MOS) CERTIFICATION****6668****Grades 10, 11, 12****Credit .50**

If you plan to go into the business world or are college bound, be prepared! This course will boost your skills in the use of Microsoft Excel through “hands on” applications. Upon successful completion of this course, students can earn Microsoft Office Specialist (MOS) certification. MOS certification is an industry standard certification given by Microsoft Corporation.

**ADVANCED MS WORD with \*MOS CERTIFICATION****6669****Grades 10, 11, 12****Credit .50**

Be equipped to enter college or the business world! This course will strengthen your skills in MS Word through the use of integrated software and realistic projects. You will also have the opportunity to take the MOS Certification test which is an industry standard test given by the Microsoft Corporation. If you pass this test, Microsoft certifies you as an Office Specialist which will help you when you are applying for future employment.

**ADVANCED POWERPOINT with \*MOS CERTIFICATION****6671****Grades 10, 11, 1****Credit .50**

PowerPoint is the industry standard presentation software being used today. This course will strengthen your skills in PowerPoint through the use of realistic and fun projects. You will also have the opportunity to take the MOS Certification test which is an industry standard test given by the Microsoft Corporation. If you pass this test, Microsoft certifies you as an Office Specialist which will help you when you are applying for future employment.

\*The MOS Certification test is an industry standard test that is given by the Microsoft Corporation. They test the students and if they can pass the test up to their standards, they are certified as an Office Specialist on that piece of software. The test is fairly difficult and is a big accomplishment for high school students. This certification will allow them to test out of any basic classes on this software at the college level and goes with them when they are applying for future employment. Our students have the opportunity to walk out of here with 3 industry standard certifications (MS Word, Excel, and PowerPoint). CMHS is among few high schools in the area offering this opportunity to students making CMHS stand out among other students in the area.

**BUSINESS AND CONSUMER LAW****6667****Grades 11, 12****Credit .50**

Business and Consumer Law is a one semester course that familiarizes the student with some of the basic principles of law in personal law and the business field. Some principles that will be studied are, understanding the sources of law, enforcing the law, court structures, and understanding the differences between criminal and civil law. Also included is a short intro to contract law. All material is presented in a manner that the ordinary citizen can understand and use. Students will participate in a mock trial at the end of the semester.

**BUSINESS MATH****6305****Grade 12 - Math credit in Grade 12****Credit 1.00**

Business Math is a two-part course. During the first semester, students will be introduced to Personal Finance topics such as gross and net pay, taxes, savings and investing, and debt. Students will be required to apply basic math skills to these topics and solve linear equations. Students will also learn how to fill out a basic 1040EZ form for completing their own taxes. The second semester is focused on business topics such as Personnel, Purchasing, Production, Sales, Marketing, and Financial Statements supported by textbook work along with a virtual business simulation. It culminates with each student running a virtual restaurant and virtual hotel. This course is recommended for students with little or no personal finance background and/or students wishing to pursue a business curriculum after graduation or planning to someday operate their own business.

**DESKTOP PUBLISHING****6616****Grades 10, 11, 12****Credit .50**

Desktop Publishing is a one semester course that is devoted specifically to introducing desktop publishing and communication skills needed in today’s business environment. Upon completion of this course, students will be able to effectively demonstrate skills in the areas of desktop publishing, creativity, and decision making. The main emphasis will be the production of brochures, posters, newsletters, reports, etc. Electronic communication methods as well as presentation applications will be explored to supplement the effective use of desktop publishing.

<b>ENTREPRENEURSHIP I</b>	<b>6624</b>
<b>Grades 9, 10, 11, 12</b>	<b>Credit .50</b>
<p>Have you ever dreamed of owning your own business and being the boss? Could you be the next Bill Gates (Microsoft), Oprah Winfrey (Harpo Productions), or Mark Zuckerberg (Facebook)? These famous entrepreneurs started with a great idea. This semester course will familiarize students with the planning, organization, and operation of a business enterprise. During the semester, students will participate in a business ownership simulation.</p>	
<b>ENTREPRENEURSHIP II</b>	<b>6700</b>
<b>Grades 10, 11, 12</b>	<b>Credit .50</b>
<p><b><u>Prerequisite: Successful completion of Entrepreneurship I and the recommendation of the instructor.</u></b></p> <p>This one semester course will give students hands-on, practical experience with managing and operating a business. In conjunction with students enrolled in Foundations of Technology, Entrepreneurship II students will help to operate The CM Store. Product development, financing, financial record keeping, staffing issues, pricing, and promotion will be topics addressed in this course.</p>	
<b>FRESHMAN SEMINAR</b>	<b>6620</b>
<b>Grades 9 (required)</b>	<b>Credit .50</b>
<p>Students will develop skills in basic financial literacy using EverFi as a supplemental web-based platform. Students will also take steps in building their portfolios regarding the state's career readiness program. These steps involve creating artifacts using word processing, spreadsheet, and presentation applications to assist in the investigation of future career pathways.</p>	
<b>INVESTMENT STRATEGIES</b>	<b>6626</b>
<b>Grades 11, 12</b>	<b>Credit .50</b>
<p><b><u>Prerequisite: Students must have earned a "B" of higher in Personal Finance.</u></b> Investment Strategies is a course designed to evaluate investment options to meet short- and long-term goals. The course will study personal wealth management techniques such as stocks, bonds, mutual funds, and real estate along with incentives available and the risks associated with each. Speakers from various financial management companies will be invited to talk with the class. Students will complete a stock market simulation as well. This is a great course for students interested in taking their money management skills further and applying strategies to become financially wealthy.</p>	
<b>PERSONAL FINANCE</b>	<b>6622</b>
<b>Grades 9, 10, 11, 12</b>	<b>Credit .50</b>
<p>Personal Finance will help students better understand basic monetary principles used to manage their finances and plan for the future. The students will study earning and managing income (including managing a checking account), saving and investing (stock market basics) in the long and short term, the impact of the Federal Reserve, managing credit, and basic taxes. These principles will be demonstrated through the use of classroom projects and simulations. This is a fast paced course which requires the ability to work independently and demonstrate good time-management skills.</p>	
<b>PRINCIPLES OF MARKETING</b>	<b>6623</b>
<b>Grades 10, 11, 12</b>	<b>Credit .50</b>
<p>Principles of Marketing will introduce the students to the concepts of product development, advertising and promotion, distribution, pricing, and basic communication skills. Mastery of these topics will be demonstrated through the completion of classroom projects and simulations.</p>	
<b>SPORTS AND ENTERTAINMENT MANAGEMENT</b>	<b>6666</b>
<b>Grades 10, 11, 12</b>	<b>Credit .50</b>
<p>Students will be introduced to the principles of managing a business, with an emphasis on sports and entertainment industries. Other issues affecting the contemporary business will be explored. These include the social and ethical responsibilities of business, legal concerns, and marketing and promotion of a business. Students will utilize discussion, case studies, business simulations, and technology in order to meet the learning objectives of the class.</p>	

**WEB PAGE DESIGN AND DEVELOPMENT****0582****Grades 10, 11, 12****Credit .50**

This course is intended for any student who wishes to gain experience in the creation of web pages. Students in this course will learn concepts and theories associated with the design and development of web pages. Instruction will deal with the raw coding of HTML as well as an in-depth discussion of software editors in use to create web pages. Graphic preparation, navigation, functionality, and aesthetics will be addressed. Students will critique and discuss web pages as well as produce various pages. Each student will be responsible for the creation and production of a web site as completion of the course requirements.

# ENGLISH

## ENGLISH 9

1104

*Grade 9 NCAA Approved*

**Credit 1.00**

This course is designed to strengthen and extend communication skills in reading, writing, speaking, and listening. Reading skills are strengthened through the study of short stories, novels, poetry, and drama. Concentration in grammar is on sentence structure and usage through the writing process and research skills.

## ENGLISH 9-ACADEMIC

1106

*Grade 9 NCAA Approved*

**Credit 1.00**

**Prerequisite: This course requires a final grade of an “A” or “B” in English 8 with a teacher recommendation.**

English 9-Academic is designed to prepare students for English 10-Academic. Students develop skills in oral and written communication, research, grammar, usage and mechanics, vocabulary in context, and analysis of literature. Students engage in interpretive reading, analytical discussion, and analytical writing.

## ENGLISH 9-HONORS

1103

*Grade 9 NCAA Approved*

**Credit 1.00**

**Prerequisite: This course requires a final grade of an “A” in English 8 with a teacher recommendation and completion of the summer enrichment assignment.**

English 9-Honors is designed to prepare students for English 10 Honors and is an in-depth study of oral and written communication, literature, research, grammar, usage and mechanics, and vocabulary. Students engage in more extensive and comprehensive reading, discussion, and writing than in the English 9-Academic curriculum.

## ENGLISH 10

1101

*Grade 10 NCAA Approved*

**Credit 1.00**

English 10 is designed to prepare students for English 11. This course encompasses fundamental skills in research, grammar, oral and written communication, vocabulary, and the study and appreciation of various genres of texts and media. Research, grammar, and usage and mechanics are integrated with reading, writing, and speaking skills.

## ENGLISH 10-ACADEMIC

1102

*Grade 10 NCAA Approved*

**Credit 1.00**

**Prerequisite: This course requires a final grade of an “A” or “B” in English 9-Academic or English 9 with a teacher recommendation.** English 10-Academic is designed to prepare students for English 11-Academic. The course offers a thorough treatment of classic works of literature and requires reading beyond the English 10 curriculum. Skills in research, grammar, usage and mechanics, as well as vocabulary in context are integrated with the study of literature. Emphasis is placed on discussion and writing that develop analytical skills.

## ENGLISH 10-HONORS

1130

*Grade 10 NCAA Approved*

**Credit 1.00**

**Prerequisite: This course requires a final grade of an “A” in English 9-Honors or English 9-Academic with a teacher recommendation and completion of the summer enrichment assignment.** English 10-Honors is designed to prepare students for English 11-Honors. English 10-Honors includes an intensive study of various genres of classic literature. Special emphasis is placed on interpretive, analytical and evaluative skills through close reading, discussion, research, and writing.

## ENGLISH 11

1111

*Grade 11 NCAA Approved*

**Credit 1.00**

English 11 is designed to prepare students for English 12. The course emphasizes close reading and class discussion as a means to analyze and interpret fiction and non-fiction. Through reading and analyzing texts from various genres, students will develop reading and vocabulary skills. In addition, students will also develop writing skills that emphasize the fundamentals of grammar, research, usage, and mechanics.



- ENGLISH 11-ACADEMIC** 1112  
**Grade 11** *NCAA Approved* **Credit 1.00**  
**Prerequisite: This course requires a final grade of an “A” or “B” in English 10-Academic or English 10 with a teacher recommendation.** English 11-Academic is designed to prepare students for English 12-Academic. The course will offer a thorough treatment of classic novels from literature and will emphasize close reading, class discussion, analysis, and interpretation. Skills in research, grammar, usage and mechanics, as well as vocabulary in context are integrated with the study of literature. Emphasis is also placed on writing that develops analytical skills.
- ENGLISH 11-HONORS** 1131  
**Grade 11** *NCAA Approved* **Credit 1.00**  
**Prerequisite: This course requires a final grade of an “A” in English 10-Honors or English 10-Academic with a teacher recommendation and completion of the summer enrichment assignment.** English 11 Honors offers an in-depth treatment of literature that includes classic novels and selected works from the classroom survey text. Skills in research, grammar, usage and mechanics, as well as vocabulary in context are integrated with the study and appreciation of literature. Special emphasis is placed on discussion and composition that develop analytical skills. A close reading of the works and detailed note taking that includes student responses and questions are required for insightful discussions and effective writing.
- ENGLISH 12** 1122  
**Grade 12** *NCAA Approved* **Credit 1.00**  
 English 12 will emphasize close reading, formal and technical writing, and communication skills through the study of various genres of texts and media. Students will be responsible for group work, individual assignments, and class discussion and activities as a means to analyze and interpret fiction and nonfiction. Vocabulary in context is also integrated with the study of the genres studied. In addition, students will develop writing skills that emphasize the fundamentals of grammar, research, usage, and mechanics. Students will explore various career options through field trips, and presenters coming into the classroom. The students will learn soft skills, interviewing skills, and will discuss job opportunities. In this course, the students will also complete a research paper and presentation required for the Graduation Project.
- ENGLISH 12-ACADEMIC** 1121  
**Grade 12** *NCAA Approved* **Credit 1.00**  
**Prerequisite: This course requires a final grade of an “A” or “B” in English 11-Academic or English 11 with a teacher recommendation.** English 12-Academic is designed to primarily improve analytical reading and formal writing skills. Through a close reading of Western literature, students will analyze, interpret, and respond to both fiction and nonfiction. In addition, the evolution of the English language will be traced while reading poetry, novels, short stories and plays. Students will incorporate grammar, usage, and documentation skills into a variety of writings. In this course, students will complete a research paper and presentation required for the Graduation Project.
- ENGLISH 12-HONORS** 1123  
**Grade 12** *NCAA Approved* **Credit 1.00**  
**Prerequisite: This course requires a final grade of an “A” or “B” in English 11-Honors or a final grade of an "A" in English 11-Academic with a teacher recommendation and completion of the summer enrichment assignment.** English 12- Honors is designed to primarily improve analytical reading and formal writing skills. Through a close reading of British and American literature, students will analyze, interpret, and respond to both fiction and nonfiction. In addition, the evolution of the English language will be traced while reading poetry, novels, short stories and plays. Students will incorporate grammar, usage, and documentation skills into a variety of writings. In this course, students will complete a research paper required for the Graduation Project as well as prepare for the presentation.
- AP LITERATURE AND COMPOSITION (ADVANCED PLACEMENT)** 1124  
**Grade 12** *NCAA Approved* **Credit 1.00**  
**Prerequisite: This course requires a final grade of an “A” in English 11-Honors with a teacher recommendation, and completion of the summer enrichment assignment.** This course is meant to improve the student’s ability to find meaning and technique in literature by interacting with the text through notes, discussion, and written analyses. Students closely read significant works of literature from the Middle Ages to the present: poems, essays, plays, stories and novels. As they read, they often take notes about an author’s rhetorical devices and ideas or take notes that include their own questions and comments. They analyze, interpret, and respond to these works in small and large group discussions. Reading, note taking, and discussions provide a springboard for writing in-class and out-of-class essays. In this course, the students will complete a research paper required for the Graduation Project.

**HOLOCAUST LITERATURE****1515****Grades 11 and 12****Credit .50**

In this course, students will be given a thorough historical background of the Holocaust, the history of antisemitism, the dangers of hate and complicit behavior. They will gain an understanding of the numerous collaborators and participants during the Holocaust, the importance of individual choice and the results of WWII and the Holocaust. Students will conduct analysis of non-fiction and fiction literature, Nazi Propaganda, survivor's memoirs and testimonials, film and photography. Students must understand that mature and historical graphic content will be shown.

**CREATIVE WRITING****1512****Grades 11, 12** *NCAA Approved***Credit .50**

**Prerequisite: An "A" or "B" in English.** Creative writing is a semester course that focuses on assignments that require imaginative thought, descriptive language, and creative presentation. Students will be responsible for the materials necessary to complete their projects.

**DRAMA I****1514****Grades 9, 10, 11****Credit .50**

This one semester course introduces the student to acting and to the origins of drama through the study of theatre history, pantomime, storytelling, improvisational theatre, technical stage terminology for the actor, script writing, monologue and scene work. Students will develop skills in the analysis of dramatic literature for performance through memorization and through written critical response.

**DRAMA II****1447****Grades 10, 11, 12****Credit 1.00**

**Prerequisite: an "A" or "B" in Drama I.** This year long course starts with intensive character development work and then moves to exploring the world of Shakespeare from the actor's perspective. Areas of focus are script analysis, character study, voice and speech, body language and expression used in Shakespeare's work. Contemporary, historical, and student-written scene and monologue work is rehearsed and performed. The students will also explore theatrical history/the influence of major playwrights.

**DRAMA III/IV****1446****Grades 11, 12****Credit 1.00**

**Prerequisite: an "A" or "B" in Drama II/III.** This is a year-long course that continues the study of intensive scene and monologue work. Both Shakespearean plays and major American and European playwrights' works are explored, in addition to the development and presentation of student-written projects. This course also develops directorial skills and culminates in the planning and directing of a one act play.

**EXPLORING POETRY****1543****Grades 9, 10, 11, 12** *NCAA Approved***Credit .50**

This course is designed to allow students to explore poetry: to discuss what poetry is, to identify types of poetry, to learn how to read poetry as well as how to write poetry. Students will also search for the meaning and understanding of a poem by answering the who, the what, the when, the where, the why, and the how of a poem. Selected poets will also be researched and studied.

**GREAT BOOKS****1522****Grades 10, 11, 12** *NCAA Approved***Credit .50**

In this course students follow the reading/discussion program of the Great Books Foundation. They closely read and discuss short, provocative pieces from important philosophers, historians, psychologists, scientists, and writers of imaginative literature, e.g., Aristotle, Locke, Tocqueville, Freud, Kant, Kafka, and Hobbes.

**PREPARATION FOR THE SAT I REASONING TEST****1518****Grades 10, 11, 12****Credit .50**

This one semester course is designed to familiarize college bound students with the SAT I Reasoning Exam. The course objective is to focus on time constraints, strategies, and approaches to tackling the essay prompt, the verbal sections, and the math questions on the exam.

**PUBLIC SPEAKING I****1519****Grades 9, 10, 11, 12** *NCAA Approved* (1 Unit Maximum)**Credit .50**

Public speaking does not need to be a scary experience. In fact, it can be fun. In this course students will learn various techniques to improve their public speaking skills. Some of the key objectives of the course are for students to learn to use conversational speaking tones, to maintain positive eye-contact, and to use non-verbal communication skills to augment the effectiveness of any speech. The relaxed and mutually supportive atmosphere sets the tone for a comfortable and a valuable learning experience.

**PUBLIC SPEAKING II****1521****Grades 9, 10, 11, 12** *NCAA Approved* (1 Unit Maximum)**Credit .50**

**Prerequisite: Public Speaking I and teacher recommendation.** This course is an extension of the skills learned in Public Speaking I. Because of the relaxing and supportive atmosphere, students build their skill levels to a much greater degree. This class celebrates the ability that the students have to move away from the lectern towards a more sophisticated style of speaking that involves some memorization. In addition, the use of PowerPoint technology is integrated into the curriculum for this class. Students in Public Speaking II will build upon skills mastered in Public Speaking I and will learn new skills that will be of benefit to students both in future schooling and in career goals.

**TECHNICAL DRAMA I****1524****Grades 10, 11, 12****Credit .50**

**Prerequisite: An art, drama or technology class, or teacher approval.**

Students will explore various areas of technical theatre to include the following: design for sets, lighting, costumes, and makeup. Practical application of learned concepts will be applied through a play design project, which will utilize math, reading, mechanical drawing and artistic rendering skills. A brief history of technical theatre will also be included in this course.

**TECHNICAL DRAMA II/III****1449****Grades 10, 11, 12****Credit 1.00**

**Prerequisite: "B" or better in Technical Drama I/II**

Students continue to study technical theatre through more extensive designs and construction skills used for a school production. The culminating project will be to supply the technical needs for the one-act plays directed by Drama III/IV classes.

# FAMILY AND CONSUMER SCIENCES

## EARLY CHILDHOOD EDUCATION I

7567

Grades 11, 12

Credit .50

**Prerequisite: Students must have a satisfactory health and discipline record for entrance into this course.**

Early Childhood Education I is a study of child development from birth through five years of age. During this course students will learn about theories of child development, best practices for guiding children's behavior, and developmentally appropriate practices for teaching preschool children. The beginning of the course will prepare students for working as teachers in the Canon-McMillan High School Preschool. The preschool is held four days a week at the high school and includes community children between the ages of three and five. Students will work in groups to plan lessons, teach elementary concepts, maintain a clean and safe classroom, and guide children through play activities. Grading will be based on written lesson plans, class projects, teaching experiences, child observations and play interactions with preschool children.

## EARLY CHILDHOOD EDUCATION II

7568

Grades 11, 12

Credit .50

**Prerequisite: Students must have maintained a "C" or better average in Early Childhood Education I and have a satisfactory health and discipline record for entrance into this course.**

Early Childhood Education II is the second level course discussing theories of child development and working in the Canon-McMillan High School Preschool. Students will function as early childhood educators as they plan and implement lessons for children between the ages of three and five. Students will spend four days a week working with preschool children and one day a week studying concepts of child development with an emphasis on curriculum. Students will work in groups to plan lessons, teach elementary concepts, maintain a clean and safe classroom, and guide children through play activities. Grading will be based on written lesson plans, class projects, written assignments, teaching experiences, child observations, and play interactions with preschool children.

## FAMILY AND COMMUNITY STUDIES

7569

Grades 9, 10, 11, 12

Credit .50

Family and Community Studies is a course that discusses daily life when living away from home. During this class, we will explore topics of food and government, consumer economics, global food issues, principles of design, and service to the community. We will spend a good portion of class time working in the food lab and the remainder on individual or group projects.

## FOODS AND NUTRITION

7565

Grades 10, 11, 12

Credit .50

**Prerequisite: Successful completion of Family and Community Studies or Global Cuisine with a "C" or better average.**

Foods and Nutrition is a course that will build on the skills and principles learned in Family and Community Studies and/or Global Cuisine. In this course, we will focus on food and nutrition principles that will help students understand the relationship between eating and health. Students will explore issues pertaining to calories and energy, dieting guidelines, the nutrients, healthy eating habits, nutritional needs across the lifespan and current trends in nutrition. Throughout this course students will be working in lab groups to prepare a variety of recipes.

## GLOBAL CUISINE

7571

Grades 9, 10, 11, 12

Credit .50

Global Cuisine is an introductory course that focuses on basic preparation and cooking skills while learning how food impacts people all around the world. Students will work in groups and share responsibilities in order to prepare various food products. Students will be able to identify tools, ingredients and techniques to prepare a variety of foods for themselves and others. Throughout the course we will discuss the social aspects of eating, U.S. Regional cuisine and international cuisine.

# FOREIGN LANGUAGE

## FRENCH I

5531

Grades 9, 10, 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite:** A “C” average in the current level of study is required in order to register for the next course in the sequence. Students earning an “A” or “B” in Level I are not permitted to repeat Level I.

French I is an introduction to the French language and culture. Emphasis is placed on basic vocabulary, grammar, and verb usage. Students will focus on the Present tense of regular verbs. Oral pattern drills, small group conversations and listening comprehension activities help to reinforce the learning process. Writing activities are used on a daily basis in order to support oral patterns. Culture is interwoven throughout the course and allows students to develop an appreciation of the francophone world. The textbook series **Bien Dit!** has an online component which allows students to access an online textbook, interactive activities, assignments and assessments. Authentic materials and videos will further enrich the student’s knowledge of the francophone culture.

## FRENCH II

5532

Grades 9, 10, 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite:** “C” average in French I. French II is a continuation of the first level with reinforcement on vocabulary and grammar. Everyday expressions and common idioms will continue to be used in order to strengthen communication skills. The vocabulary base will be broadened and an in-depth study of regular and irregular verbs will be emphasized. Additional tenses will be introduced including *Passé Composé* and the *Imparfait*. The textbook series **Bien Dit!** has an online component which allows students to access an online textbook, interactive activities, assignments and assessments. Authentic materials and videos will further enrich the student’s knowledge of the francophone culture. A “C” average in the current level of study is required in order to register for the next course in the sequence.

## FRENCH III

5533

Grades 10, 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite:** “C” average in French II. French III is a continuation of the first level with reinforcement on vocabulary and grammar. Everyday expressions and common idioms will continue to be used in order to strengthen communication skills. The vocabulary base will be broadened and an in-depth study of regular and irregular verbs will be emphasized. Additional tenses will be introduced. The textbook series **Bien Dit!** has an online component which allows students to access an online textbook, interactive activities, assignments and assessments. Authentic materials and videos will further enrich the student’s knowledge of the francophone culture. A “C” average in the current level of study is required in order to register for the next course in the sequence.

## FRENCH IV HONORS

5534

Grades 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite:** “C” Average in French III. This advanced French course is intended for the student who wishes to refine his or her ability to use French for communication. A primary goal of this course is to further strengthen the ease and confidence with which the student uses French for self-expression. This course is designed to consolidate the foundation established in levels one, two, and three. The student will become quite knowledgeable about pronunciation that would be acceptable to the ear of a native speaker. The ability to understand French when spoken by a native speaker at a normal rate of speed will be increased dramatically during this course. Daily opportunities will be provided for the student to practice self-expression in both spoken and written format. Reading material will include literary works. **Bien Dit!** has an online component which allows students to access an online textbook, interactive activities, assignments and assessments. Finally, this course is the logical bridge to the Advanced Placement French Language course. An A or B in French IV Honors plus teacher recommendation is required to continue to Advanced Placement French.

## AP FRENCH (ADVANCED PLACEMENT)

5530

Grade 12 *NCAA Approved*

Credit 1.00

**Prerequisite:** An “A” or “B” in French IV and teacher recommendation. The Advanced Placement French language course is designed to meet the needs of students who plan to prepare for the French Language Advanced Placement Examination. Upon completion of the course the student will be able to understand French when spoken by an educated native in both formal and conversational situations. Students will speak with accuracy and fluency using appropriate pronunciation and intonation. They will also read magazine articles, and literary works. Students will periodically present oral reports. Ideas will be expressed accurately and fluently in writing. Instant recollection of a wide range of vocabulary and structure is required to communicate without hesitation in both written and spoken format. The student must prepare to devote one hour outside of class for each hour spent in class.

- GERMAN I** 5546  
**Grades 9, 10, 11** *NCAA Approved* Credit 1.00  
**Prerequisite: A “C” in the current level of study is strongly recommended in order to register for the next course in the sequence.** German I introduces the learner to functional and basic vocabulary and the rich German culture. Everyday expressions and common idioms employing the present tense of verbs will be used to introduce pattern drills of grammar and enhance pronunciation skills. Students will begin to develop the skills of reading and writing in the target language. Through cooperative learning exercise (dialogues, paired drills), the students will gain self-confidence in speaking and reinforce their listening comprehension abilities.
- GERMAN II** 5547  
**Grades 10, 11, 12** *NCAA Approved* Credit 1.00  
**Prerequisite: A “C” in the current level of study is strongly recommended in order to register for the next course in the sequence.** German II will provide the student with reinforcement of the skills learned in German I. The vocabulary base will be broadened and an in-depth study of regular and irregular verb conjugations will be emphasized. Reading comprehension and writing skills will reflect the expanded vocabulary and the concentration on mechanics. The student will be encouraged to focus on pronunciation and spontaneity by using the language daily in the classroom setting. Authentic materials will further enrich the student’s knowledge of culture.
- GERMAN III** 5548  
**Grades 11, 12** *NCAA Approved* Credit 1.00  
**Prerequisite: A “C” average in the current level of study is strongly recommended in order to register for the next course in the sequence.** This course will provide daily opportunities for students to use the communication skills they learned in the previous levels of German. Students will expand their vocabulary even further and will concentrate on more difficult grammar and sentence construction. An in-depth study of the past tense and of the dative and accusative cases will be emphasized. Therefore, this course is not recommended for students who do not have a strong command and understanding of grammar. Students will also practice using their reading, writing and listening comprehension skills in German. Finally, this class will integrate the study of language and culture in a way that encourages curiosity and an appreciation for different cultural beliefs.
- GERMAN IV HONORS** 5549  
**Grade 12** *NCAA Approved* Credit 1.00  
**Prerequisite: A “C” average in the current level of study is required in order to register for the next course in the sequence.** In this advanced course, students will be expected to speak German exclusively. They will use their knowledge of grammar and vocabulary to express themselves effectively. Students will continue to write and perform skills in German to practice their developing communication skills. Upon completion of this course students will be able to understand German when spoken by native speakers and will be able to converse with a native at an intermediate-low proficiency level. Students will be introduced to German literature such as short stories, fairy tales, poetry and articles, which will require a more extensive vocabulary. In addition, they will refine their writing skills with personal essays, letters, etc. Students will also increase their understanding of German culture, as it is today and was in the past, based on their study of historical and contemporary texts and authentic materials.
- LATIN I** 5538  
**Grades 10, 11, 12** *NCAA Approved* Credit 1.00  
**Prerequisite: Students who wish to enroll in Latin I must be at least a sophomore and have an “A” or “B” average in their current Academic or Honors English course.** The student must be willing and able to put forth the required time associated with learning a second or third language. Students enrolled in other foreign languages are encouraged to take Latin I concurrently with their level 3 and 4 classes. This course is intended for the academic and honors student. Students will gain an in-depth knowledge of Latin grammar, vocabulary, and syntax. Their studies will include all five declensions of nouns, all three declensions of adjectives and all four conjugations of verbs. This course will include an intense concentration on translation of Latin stories into English. Cultural and historical events will be included through Latin readings and English lectures.

**LATIN II** 5539  
**Grades 11, 12** *NCAA Approved* **Credit 1.00**  
**Prerequisite: Students who wish to enroll in Latin II must be at least a junior and must have completed Latin I with an A or B average.** This course is intended for the academic and honors student who has completed Latin I with an A or B final average. Students will finish the study of grammar begun in Latin I. Vocabulary will be augmented and include specialized words used in the writings of Julius Caesar and Cicero. Students will use and manipulate verbs in all tenses, moods, and voices. In Latin II the focus shifts from a grammar based language to one that is read and discussed. Students will, midway through the course, begin reading the authentic Latin Literature of Cicero and Caesar.

**ADVANCED LATIN HONORS** 5540  
**Grades 12** *NCAA Approved* **Credit 1.00**  
**Prerequisite: This course is intended for the academic and honors student who has completed Latin II.** Advanced Latin is a course designed solely with the intent of reading and discussing Latin prose and poetry. Students will read works from such authors as Virgil, Catullus, Horace, Pliny, Martial, and Sallust. Selection of authors will be tailored to the interest of the students, but selections from a variety of authors will be read.

**SPANISH I** 5542  
**Grades 9, 10, 11, 12** *NCAA Approved* **Credit 1.00**  
**Prerequisite: A "C" average in the current level of study is required in order to register for the next course in the sequence. Students earning an "A" or "B" in Level I are not permitted to repeat Level I.** Spanish I gives the student a general knowledge of basic Spanish grammar and focuses on both regular and irregular forms of the present tense. These principles are applied in mechanical drills, conversation in the target language, basic vocabulary, and Spanish customs and songs. Cultural aspects will be discussed and analyzed with special emphasis on holidays. Written practice will be required with special attention to orthography. Class participation will be evaluated. The textbook series **Avancemos** has an online component which allows students to access the online textbook, interactive activities, assignments and assessments.

**SPANISH II** 5543  
**Grades 9, 10, 11, 12** *NCAA Approved* **Credit 1.00**  
**A "C" average in the current level of study is required in order to register for the next course in the sequence.** The second level course is designed to increase listening and speaking proficiency and to continue the development of reading comprehension and writing skills begun in Spanish I. A more comprehensive view of culture is presented with an aim toward broadening the student's insight and appreciation of Hispanic customs and traditions. The main focus of the grammatical study will be the preterit and imperfect tenses. The textbook series **Avancemos** has an online component which allows students to access the online textbook, interactive activities, assignments and assessments.

**SPANISH III** 5544  
**Grades 10, 11, 12** *NCAA Approved* **Credit 1.00**  
**A "C" average in the current level of study is required in order to register for the next course in the sequence.** Spanish III is a highly academic, advanced language course which not only provides a comprehensive review of previously studied grammar and vocabulary, but is designed to prepare the student for college level intermediate Spanish. The imperfect and preterit tenses will be compared and contrasted. The subjunctive mood of verbs will be studied as well as the future and conditional tenses and some technical grammatical concepts. Students will be expected to attempt accurate pronunciation in auditory comprehension. The textbook series **Avancemos** has an online component which allows students to access the online textbook, interactive activities, assignments and assessments.

**SPANISH IV HONORS** 5545  
**Grades 11, 12** *NCAA Approved* **Credit 1.00**  
**Prerequisite: A "C" average in the current level of study is required in order to register for the next course in the sequence.** This course is intended for the serious minded student who wishes to refine his or her ability to communicate in Spanish. The student will be required to speak in Spanish during the class. A complete review of all grammatical concepts will be undertaken. The imperfect subjunctive tense will be studied as well as subtle grammatical concepts that will perfect their Spanish. Students will attempt to perfect their grammatical form and vocabulary through creative writing assignments and oral presentations. The abridged version of Cervantes novel "Don Quixote" will be read and discussed. In the 4<sup>th</sup> quarter the students will prepare and present a 10-minute PowerPoint presentation in the target language

**AP SPANISH (ADVANCED PLACEMENT)**

**5500**

**Grade 12** *NCAA Approved*

**Credit 1.00**

**Prerequisite: An “A” or “B” in Spanish IV Honors plus teacher recommendation is required to continue to Advanced Placement Spanish.** Spanish (AP) is intended for the student who wishes to increase his/her ability to utilize the Spanish language for communication purposes. It is ideal for those who intend to major or minor in Spanish in college. This course covers rare grammatical structures and difficult idioms. The student will use a variety of materials as well as practice tests to prepare for the A.P. exam in May.



# HEALTH & PHYSICAL EDUCATION

## HEALTH

7006

Grade 9

Credit .50

**NOTE: This course is required for graduation.** The purpose of this course is to provide students with the ability to examine their lifestyles, select goals, and make plans to achieve and maintain optimum health and wellness. This involves choosing behaviors that help prevent illness and accidents, promote health for self and others and improve the quality of the environment.

## PHYSICAL EDUCATION

Grades 9, 10

7013 Credit .25

Grades 11, 12

7001 Credit .25

**NOTE: This is a required, yearly course for graduation, mandated by the PDE.** This program of sports is a medium which leads to independent learning of human movement and behavior. The exciting nature of sport serves to increase learning because the cognitive, affective and psychomotor processes of the student participants are engaged. The co-educational/selective program of activities ranges from basic and advanced physical education instruction to lifetime and recreational activities. By offering a varied program and fitness assessments, the general objectives of physical education may be realized in an interesting and challenging manner.

## FUNDAMENTALS OF SWIMMING (*This course does not count as P.E. credit*)

7011

Grades 9, 10, 11, 12

Credit .50

Students in this course will practice the American Red Cross Learn-To-Swim Skill Levels 1 through 6. This course is intended for non-swimmers and students who wish to improve their basic swimming skills and develop confidence in the water. Skilled swimmers are also welcome as class activities will include water games and swimming for aerobic endurance.

## \*ENRICHMENT SUMMER SCHOOL PHYSICAL EDUCATION

Credit .25

Grades 9, 10, 11, 12

Students who wish to make room for an additional elective in their academic schedule for the 2018-2019 school year may elect to take Physical Education during the summer of 2018. This program is open to all students at a cost to parents who wish to enroll their student in this program. Enrollment and payment must be completed online at a date yet to be determined. **Proof of online enrollment and payment must be submitted at a date yet to be determined.**

## \*ENRICHMENT SUMMER SCHOOL HEALTH

Credit .50

Grade 9

Students who wish to make room for an additional elective in their academic schedule for the 2018-2019 school year may elect to take Health during the summer of 2018. This program is open to all students at a cost to parents who wish to enroll their students in this program. Enrollment and payment must be completed online at a date yet to be determined. **Proof of online enrollment and payment must be submitted at a date yet to be determined.**

# MATHEMATICS

**For current 8th graders:**

Find your math course, then follow the chart to the right for 2020 – 2021 course choices.  
Please follow the Prerequisite and consult with your math teacher.

8th	9th
PA Core Algebra 1	Geometry Honors (must have at least a B average in Algebra 1 and pass the Keystone exam) Geometry Academic (must have at least a C average in Algebra 1) Algebra 1 Academic
Pre-Algebra Academic	Algebra 1 Academic (must have an A average in Pre-Algebra Academic) Algebra 1 (must have a B average in Pre-Algebra Academic) Algebra 1A
Pre-Algebra	Algebra 1 (must have an A average in Pre-Algebra and teacher recommendation) Algebra 1A

**For current high school students:**

Find your grade level and math course, then follow the chart to the right for 2020 – 2021 course choices. See the individual course descriptions for pre-requisites. If your grade level and math course do not match, consult with your math teacher.

9th	10th	11th	12th
Geometry Honors Geometry Academic	Algebra 2 Honors Algebra 2 Academic	AP Statistics Pre-Calculus Honors Pre-Calculus	AP Calculus BC AP Calculus AB AP Statistics Physics Business Math
Algebra 1 Academic Algebra 1	Geometry Honors Geometry Academic Geometry	Algebra 2 Honors Algebra 2 Academic	Pre-Calculus Honors Pre-Calculus Trigonometry (seniors only) Physics Business Math
Algebra 1A	Algebra 1B	Geometry	Algebra 2 Academic Business Math

Note: Students may also elect courses from the Computer Sciences after successful completion of Algebra 1. Computer Science courses are electives. Physics counts as a math credit for SENIORS ONLY.

## Course Descriptions:

### ALGEBRA 1A

3365

#### Grade 9 *NCAA Approved* (1 Unit Maximum)

Credit 1.00

This course is a basic Algebra 1 course for students. The course will begin by covering operations with real numbers and expressions. The students will then receive instruction in basic algebraic concepts including solving linear equations and inequalities, graphing linear equations, and finding the slope of a line. This course will begin to prepare students for the Keystone Algebra Exam. Algebra 1B will be taken immediately following this course.

### ALGEBRA 1B

3366

#### Grade 10 *NCAA Approved* (1 Unit Maximum)

Credit 1.00

This course will continue with the concepts from Algebra 1A, covering solving and graphing linear inequalities, and solving systems of equations/inequalities. Students will also learn various data analysis. The course in conjunction with Algebra 1A will prepare students for the Keystone Algebra Exam. Students will take the Keystone Algebra Exam at the end of this course.

### ALGEBRA 1

3304

#### Grade 9

Credit 1.00

This course is an introduction to the basic concepts and laws of Algebra. The course will begin by covering operations with real numbers and expressions. Then students will write, solve, and graph linear equations and inequalities, including systems of equations/inequalities. Functions will also be discussed with application problems. The course will then move on to various data analysis. This course will prepare students for the Keystone Algebra Exam. Students will take the Keystone Algebra Exam at the end of this course.

### ALGEBRA 1 ACADEMIC

3380

#### Grade 9 *NCAA Approved*

Credit 1.00

This course is an introduction to the basic concepts and laws of Algebra. The course will begin by covering operations with real numbers and expressions. Then students will write, solve, and graph linear equations and inequalities, including systems of equations/inequalities. Functions will also be discussed with application problems. The course will then move on to various data analysis. This course will prepare students to take the honors level courses at the high school with increased rigor and limited calculator use. This course will prepare students for the Keystone Algebra Exam as well. Students will take the Keystone Algebra Exam at the end of this course.

### ALGEBRA 2 ACADEMIC

3321

#### Grades 10, 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite: Students must have a “C” average in Geometry Honors or Geometry Academic or a “B” average in Geometry.** Algebra 2 builds upon the skills that were learned in Algebra 1. This course begins with a brief overview of Algebra 1 topics, then students will solve systems of equations and inequalities, solve and graph quadratic equations, rational equations, radical equations, exponential equations, logarithmic equations and absolute value equations and inequalities.

### ALGEBRA 2 HONORS

3381

#### Grades 10, 11 *NCAA Approved*

Credit 1.00

**Prerequisite: Students must pass the Keystone Algebra exam prior to taking this course. Students must have a B average in Geometry Honors or an A average in Geometry Academic.** Students will be required to complete a summer assignment, which will be assessed. Algebra 2 builds upon the skills that were learned in Algebra 1. This course includes solving systems of equations and inequalities, solving and graphing quadratic equations, polynomial equations, rational equations, radical equations, exponential equations, logarithmic equations and absolute value equations and inequalities. Time permitting, additional topics (basic trigonometry, analytical geometry) beyond the above material will also be studied. This course will prepare students to take the honors and AP level courses at the high school with increased rigor and limited calculator use.

### \* BUSINESS MATH

#### Grade 12

See Course Description in “Business Education” section (Page 14)

<b>GEOMETRY</b>	<b>3332</b>
<b>Grades 10, 11</b>	<b>Credit 1.00</b>
<b><u>Prerequisite: Students must complete an Algebra 1 course (or Algebra 1A and Algebra 1B).</u></b> This course will include basic geometric concepts such as angles, congruence and similarity theorems, polygons, area and volume of two-dimensional and three-dimensional figures.	
<b>GEOMETRY ACADEMIC</b>	<b>3314</b>
<b>Grades 9, 10, 11 <i>NCAA Approved</i></b>	<b>Credit 1.00</b>
<b><u>Prerequisite: Students must have a C average in Algebra 1 Academic or a B average in Algebra 1.</u></b> This course will include the study of coordinate systems, transformations, measurement formulas, basic geometric terminology and concepts, three-dimensional figures, surface areas, deductive proofs of congruent and similar figures, circles, and right triangle trigonometry.	
<b>GEOMETRY HONORS</b>	<b>3301</b>
<b>Grades 9, 10 <i>NCAA Approved</i></b>	<b>Credit 1.00</b>
<b><u>Prerequisite: Students must have a B average in Algebra 1 Academic or an A average in Algebra 1.</u></b> Students will be required to complete a summer assignment, which will be assessed. Geometry Honors is a rigorous course with limited calculator use intended for an AP bound student. Topics include the rectangular coordinate system, transformations, measurement of length, area and volume, congruent and similar figures, circles, deductive proofs, polygons, and right triangle trigonometry.	
<b>PRE-CALCULUS</b>	<b>3343</b>
<b>Grades 11, 12 <i>NCAA Approved</i></b>	<b>Credit 1.00</b>
<b><u>Prerequisite: Students must have a C average in Algebra 2 Honors or an 85% average in Algebra 2.</u></b> This course begins with a brief review of Algebra 2 skills then moves on to Pre-Calculus topics. These topics include the study of linear, quadratic, radical, rational, exponential and logarithmic functions and their inverses. Trigonometric topics include trigonometric identities, radian measure, right triangle trigonometry, the Laws of Sines and Cosines and trigonometric inverse functions. Applications of trigonometry are included when appropriate. This course will also cover topics from Analytical Geometry.	
<b>PRE-CALCULUS HONORS</b>	<b>3344</b>
<b>Grades 11, 12 <i>NCAA Approved</i></b>	<b>Credit 1.00</b>
<b><u>Prerequisite: Students must have a B average in Algebra 2 Honors.</u></b> This course begins with a brief review of Algebra 2 skills then moves on to Pre-Calculus topics. These topics include a rigorous approach to the concept of linear, quadratic, radical, rational, absolute value, exponential and logarithmic functions and their inverses. Trigonometric concepts include trigonometric identities, radian measure, right triangle trigonometry, the Laws of Sines and Cosines and trigonometric inverse functions. Applications of trigonometry such as linear velocity and angular speed are included when appropriate. This course will also cover topics from Analytical Geometry. The intent of this course is to prepare students for AP Calculus BC.	
<b>TRIGONOMETRY</b>	<b>3364</b>
<b>Grade 12 <i>NCAA Approved</i></b>	<b>Credit 1.00</b>
<b><u>Prerequisite: Students must have a C average in Algebra 2. This course is for seniors ONLY.</u></b> This course begins with a review of Algebra 2 topics then moves on to trigonometry topics. These topics include definitions of the trig functions, finding function values of angles, solving right triangles, radian measure, circular functions, trigonometric identities, inverse trig functions, trig equations, Law of Sines, and the Law of Cosines.	
<b>AP CALCULUS AB</b>	<b>3340</b>
<b>Grade 12 <i>NCAA Approved</i></b>	<b>Credit 1.00</b>
<b><u>Prerequisite: Students must have a C average in Pre-Calculus Honors or a B average in Pre-Calculus. Students will be required to complete a summer assignment, which will be assessed.</u></b> This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, geometry, trigonometry and analytic geometry. The course focuses on differentiation, integration, and various applications within those topics. Students who succeed in this course will be prepared to take the AP exam in May. <b>NOTE: This course is for seniors only!</b>	

**AP CALCULUS BC****3341****Grade 12 NCAA Approved****Credit 1.00**

**Prerequisite: Students must have an A average in Pre-Calculus Honors. Students will be required to complete a summer assignment, which will be assessed.** This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, geometry, trigonometry and analytic geometry. The course focuses on differentiation, integration, and various applications within those topics. We will discuss parametric, polar, and vector functions and analyze various sequences and series. Students who succeed in this course will be prepared to take the AP exam in May.

**AP STATISTICS****3345****Grades 11, 12 NCAA Approved****Credit 1.00**

**Prerequisite: Students must have an A average in Algebra 2 Honors and Geometry Honors and a recommendation from the teacher of the math and English courses taken immediately prior to this selection. Students will be required to complete a summer assignment, which will be assessed.** AP Statistics is divided into these areas of concentration: graphing and analyzing data, probability and probability distributions, observational studies, surveys and experiments, and hypothesis testing and intervals. Students interested in this course must be critical thinkers with strong emphasis in reading and writing skills. This course will enable students to process information and provide supportive conclusions about data. Students will conduct studies and experiments on real world data and evaluate information and write well-organized summaries. This course will enable students to better understand the world of data and statistical claims that surround them and to use higher order thinking to analyze this information critically.

**COMPUTER SCIENCE I COMPUTER PROGRAMMING IN C++****3351****Grades 9, 10, 11, 12 NCAA Approved****Credit .50**

**Prerequisite: Algebra I with a "C" or better.** This course is designed to introduce students to basic programming in the C++ language. This course is an introductory course in Computer Science and should be taken by any student planning on future studies in Mathematics, Engineering, Science, or Business. The students will study programming methodology, write algorithms, and learn topics in C++ syntax including variables, arrays, input-output, selection, program flow control, repetition, procedures, and functions.

**COMPUTER SCIENCE I in PYTHON****3348****Grades 9, 10, 11, 12****Credit .50**

**Prerequisite: Algebra I with a "C" or better or currently enrolled in Algebra I.** This is the first course in the CMU CS Academy, developed by Carnegie Mellon University's School of Computer Science. Computer Science I in Python is designed to introduce students to basic programming in the Python language in conjunction with CMU's Graphics package which introduces students to programming in a captivating manner while simultaneously building problem-solving skills and an understanding of the thinking methods used by programmers. The topics in CSI Python (units 1-6) include: creating drawings, functions, mouse events & properties, conditionals, helper functions, complex conditionals, key events, groups, step events, motion, local variables, for-loops and random values.

**COMPUTER SCIENCE II in PYTHON****3360****Grades 9, 10, 11, 12****Credit .50**

**Prerequisite: CS I in Python with a "B" or better. Students who successfully completed units 1-6 of CMU CS Academy CS1 in 8th grade are exempt from CS I in Python.** This course is a continuation of Computer Science I in Python with CMU CS Academy, developed by Carnegie Mellon University's School of Computer Science. The topics in CS II Python (units 7-12) build upon what students learned in the CS I in Python and include: variables, while-and for-loops, nested loops, randoms, strings, lists, return values, 2D lists, board games, and a creative project with an introduction to images and sounds. This course is the prerequisite for Special Topics in CS.

**AP COMPUTER SCIENCE A**  
**Grades 10,11, 12 NCAA Approved**

**3362**  
**Credit 1.00**

**Prerequisite: CS I and CS II with a “B” average or better and teacher recommendation.**

This blended curriculum teaches object-oriented programming using the Java language and is meant to be the equivalent of a rigorous first semester, college-level course in computer science. AP CSA emphasizes problem solving and algorithm development and uses hands-on experiences and examples so students can apply programming tools and solve complex problems and is well-suited for students interested in pursuing a career in computer science or engineering. The in-depth study of topics include: built-in and user defined data types, objects, classes, methods, arrays, inheritance, interfaces, abstract classes, searching & sorting, arraylists, recursion, stacks, queues, and AP lab case studies. Students who take this course will be prepared to take the Computer Science A exam in May. College credit may be granted for this course for students who enroll in the School of Information Systems & Technology at Pittsburgh Technical College.

**AP COMPUTER SCIENCE PRINCIPLES**  
**Grades 9, 10, 11, 12 NCAA Approved**

**3382**  
**Credit 1.00**

**Prerequisite: Students must have successfully completed Algebra I with a “B” or better or Algebra 1 Academic with a “C” or better.** The AP Computer Science Principles course develops computational thinking skills in the context of creative problem solving. This course is designed to fulfill a college level introduction to computer science. The primary goal of the course is to introduce students to the foundational concepts of computer science and challenge them to explore how computing and technology can impact the world. Students will learn about ways to analyze and study data, work with large data sets, and draw conclusions from trends. Although the skill sets developed in this class are prescribed by the course’s core curriculum, the exact ways in which students apply them will vary. They will investigate solutions to real world problems and issues. Students enrolled will create an AP Digital Portfolio for the Explore and Create Performance Tasks, and will be prepared to take the AP Computer Science Principles exam in May. The summer reading assignment is the book “Blown to Bits”. College credit may be granted for this course for students who enroll in the School of Information Systems & Technology at Pittsburgh Technical College.

**SPECIAL TOPICS IN COMPUTER SCIENCE**  
**Grades 10, 11, 12**

**3361**  
**Credit .50**

**Prerequisite: CS I in Python and CS II in Python with a “B” average or better and teacher recommendation.** This course is built upon the premise that computer science and computational problem solving are fundamental skills for engaging the 21st-century marketplace of ideas and economies. This course is designed for students who have successfully completed both CS I and CS II in Python and includes additional advanced programming and CS topics such as sets and maps, and then applies and extends computational problem-solving skills in a variety of application areas. Topics of study will include CS in: art, science, music, math, data analysis and visualization, simulations, game design, web applications, cyber security, machine learning and artificial intelligence, and more.

# MUSIC

## AMERICAN POPULAR MUSIC

9581

Grades 9, 10, 11, 12

Credit .50

Students are presented with the historical development of American popular music that begins with the nineteenth century and continues through the end of the twentieth century. Students study, discuss and listen to various styles including Ragtime, Blues, Jazz, Musical Theater, Rhythm and Blues, Country, Folk, Rock and Roll, the British Invasion, and Today's Sounds. Sound reproduction and the use of electronics in popular music are also discussed.

## AP MUSIC THEORY (ADVANCED PLACEMENT)

9586

Grades 10, 11, 12

Credit 1.00

**Prerequisite:** Students must have prior music reading experience. The goal of the course is to advance the students ability to recognize, understand, and describe the intricate materials and processes of music that are heard or presented in a score. This course will continue to expand the student's study of musicianship, theory, and the procedures which integrate the aspects of melody, harmony, texture, rhythm, form, advanced musical analysis, composition, history and style to the college level. This course utilizes a web based text with differentiated instruction and allows the student to supplement learning with a variety of internet and written resources. Musicianship skills including dictation, listening skills, sight-singing, and keyboard harmony are also required.

## BAND HONORS

9582

Grades 9, 10, 11, 12

Credit 1.00

**Prerequisite:** Students with previous instruction on wind or percussion instruments may enroll for Band. The material studied in this course will include a varied repertoire of concert and marching music, advanced rhythms, harmonies, ensemble performance techniques and dynamic interpretation. A student who schedules band is required to participate in both the "Big Mac" Marching Band and the Canon-McMillan High School Concert Band. Summer and evening rehearsals and performances are required.

## BELLA VOCE

9587

Grades 9, 10, 11, 12

Credit 1.00

**Prerequisite:** Bella Voce membership is attained by audition only. Bella Voce involves advanced vocal technique and repertoire. A variety of choral styles are presented at numerous school, community, and public events. Bella Voce also performs for adjudications during the school year. A high degree of individual vocal quality, a positive attitude, and a serious group commitment are required of all members. Some morning, evening and weekend hours are required to fulfill performance requests.

## CONCERT CHOIR/TREBLE CHOIR

9588

Grades 9, 10, 11, 12

Credit 1.00

Concert Choir/Treble Choir performs a variety of advanced choral repertoire based upon advanced technique, high performance level, and experience. Important considerations for membership include group commitment and positive individual contribution to goals and objectives. Concert Choir sings at scheduled performances during the school year. After school rehearsals and concerts are mandatory. Grading is based on in-class performance, tests, participation, and attendance at rehearsals and concerts.

## CONCERT CHOIR/BASS CHOIR

9589

Grades 9, 10, 11, 12

Credit 1.00

Concert Choir/Bass Choir performs a variety of advanced choral repertoire based upon advanced technique, high performance level, and experience. Important considerations for membership include group commitment and positive individual contribution to goals and objectives. Concert Choir sings at scheduled performances during the school year. After school rehearsals and concerts are mandatory. Grading is based on in-class performance, tests, participation, and attendance at rehearsals and concerts.

## JAZZ ENSEMBLE

9593

Grades 9, 10, 11, 12

Credit .50

**Prerequisite:** In order to schedule Jazz Ensemble, a student must also be scheduled for Band. An audition is required.

\*This selection is offered in the second semester only. Band members play who saxophone, trumpet, trombone, guitar, bass, guitar, bass guitar, piano or drums and pass and audition are eligible to schedule Jazz Ensemble. This course includes the study of medium difficult to difficult swing, swing ballad, shuffle jazz waltz, rock, rock ballad, funk, bossa and reggae music in a Big Band setting. The history of jazz and the study of advanced improvisation are also included in the curriculum. After school rehearsals, performances and competitions may be required.

**JAZZ LAB BAND**

9592

Grades 9, 10, 11, 12

Credit .50

**Prerequisite: In order to schedule Jazz Lab Band, a student must also be scheduled for Band.** \*This selection is offered in the first semester only. Band members who play saxophone, trumpet, trombone, guitar, bass guitar, piano or drums are eligible to schedule Jazz Lab Band. This course includes the study of medium easy swing, swing ballad, shuffle, jazz waltz, rock, rock ballad, funk, bossa and reggae music in a Big Band setting. The history of jazz and the study of basic improvisation is also included in the curriculum. After school rehearsals and performances may be required.

**MARCHING BAND UNITS**

7005

Grades 9, 10, 11, 12

Credit .25

**Prerequisite: Acceptance in Auxiliary Marching Band Squad (Canonettes, Flag Corps, Majorettes) through a competitive audition process.** This Course is for Canon-McMillan High School Marching Band auxiliary members who do not participate in Concert Band. Students will participate in all scheduled marching band activities. Summer, weekend and after school/evening rehearsals are a requirement of the course.

**PIANO LAB**

9590

Grades 9, 10, 11, 12

Credit .50

This course is a practical course that enables students to develop basic keyboard proficiency at the beginning to intermediate level. Students will begin the course at the level at which they are able and will continue to progress at their own speed throughout. Students with some piano experience should discuss their skills and situation with the teacher so that ample learning can be achieved for each individual. The course content may include, but not be limited to the following:

- Basic Keyboard Skills
- Individual and Ensemble Piano Technique
- Music Literacy
- Music Theory
- Performance Etiquette
- Sight Reading and Ear Training
- Elements and Characteristics of Music
- Performance Analysis and Evaluation

**WORLD PERCUSSION ENSEMBLE**

9595

Grades 9, 10, 11, 12

Credit .50

**Prerequisite: In order to schedule World Percussion Ensemble a student must also be scheduled for Band.** Band members who have an interest in playing a variety of percussion instruments and pass an audition are eligible to schedule World Percussion Ensemble. This course of study will focus on fundamental drumming, mallet percussion, Caribbean steel drums, Brazilian batucada, African drumming and traditional percussion ensemble repertoire. The cultures of Trinidad and Tobago as well as Brazil and Africa will be emphasized throughout the course. After school rehearsals, performances and competition may be required.



## SCIENCE

All science classes include laboratory experiences; however, those courses that have a credit value of 1.50 meet for an additional lab period every other day. To succeed in any of the Honors or AP Science courses, students should be self-motivated and proactive in seeking assistance from their instructor with concepts or calculations they do not understand. There will be little review time in class. Students should be aware that absences should be kept to a minimum as they will have an adverse effect on grades and the lab experience.

### PENNSYLVANIA SCIENCE 9 W/LAB

4436

Grade 9 *NCAA Approved*

Credit 1.00

**Prerequisite: This course requires a final grade of a “C” in 8th grade science.** Pennsylvania Science 9 integrates the basic principles of scientific methods, data analysis, chemistry, biology, ecology, and environmental science. The overall theme of the course is to apply scientific principles and the scientific method to understanding the natural and man-made processes that affect our environment. This class stresses problem solving through the application of knowledge. The course relies on lectures, discussions, outside reading, guest speakers, laboratory experiences and field work. Pennsylvania Science 9 provides the foundation for continued study in the biological sciences.

### PENNSYLVANIA SCIENCE 9 ACADEMIC W/LAB

4442

Grade 9 *NCAA Approved*

Credit 1.00

**Prerequisite: This course requires a final grade of a “B” in 8th grade science.** Pennsylvania Science 9 Academic integrates the basic principles of scientific methods, data analysis, chemistry, biology, ecology, and environmental science. The overall theme of the course is to apply scientific principles and the scientific method to understanding the natural and man-made processes that affect our environment. This class stresses problem solving through the application of knowledge. The course relies on lectures, discussions, outside reading, guest speakers, in-depth laboratory experiences and field work. Pennsylvania Science 9 Academic provides the foundation for continued study in the biological sciences.

### PENNSYLVANIA SCIENCE 9 HONORS W/LAB

4435

Grade 9 *NCAA Approved*

Credit 1.00

**Prerequisite: This course requires an “A” in 8th grade science with a teacher recommendation. The students must also earn a “B” average in PA Core Algebra 1 OR an “A” average in Pre-Algebra Academic. In addition, the student must have scored Proficient or Advanced on the 8th grade PSSA test. This course requires the completion of a summer enrichment assignment and the course will move at a fast and rigorous pace.** Pennsylvania Science Honors has a more in-depth mathematical curriculum along with more extensive writing assignments than the Pennsylvania Science 9 Academic w/Lab course. Pennsylvania Science Honors integrates the basic principles of scientific methods, data analysis, chemistry, biology, ecology, and environmental science. The overall theme of the course is to apply scientific principles and the scientific method to understanding the natural and man-made processes that affect our environment. This class stresses problem solving through the application of knowledge. The course relies on lectures, discussions, outside reading, guest speakers, in-depth laboratory experiences and field work. Pennsylvania Science 9 Honors provides the foundation for continued study in the biological sciences.

### BIOLOGY W/LAB

4438

Grades 10, 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite: This course requires a final passing grade in PA Science 9.** Biology Academic is a course designed to address the knowledge and application of living systems, including biochemistry, cells, genetics, molecular biology, evolution and ecology. Laboratory work is integral to the course. A state-mandated Biology Keystone exam is given at the end of this course.

### BIOLOGY ACADEMIC W/LAB

4443

Grades 10, 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite: This course requires a final grade of at least a 70% in PA Science 9 Academic or a 90% PA Science 9.**

Biology Academic is a course designed to address the knowledge and application of living systems, including biochemistry, cells, genetics, molecular biology, evolution and ecology. Laboratory work is integral to the course. A state-mandated Biology Keystone exam is given at the end of this course.

**BIOLOGY HONORS W/LAB** 4437  
**Grade 10 (Grade 11 and 12 – Transfer students only) NCAA Approved** Credit 1.00  
**Prerequisite: This course requires a final grade of at least an 85% in PA Science 9 Honors or a 95% in PA Science Academic. This course requires the completion of a summer enrichment assignment.** Honors Biology is a rigorous course designed to address academic, laboratory and communication skills needed to understand and to demonstrate knowledge of living systems. Topics include biochemistry, cells, genetics, molecular biology, evolution, and ecology. Inquiry-based labs, detailed lab write-ups, and supplemental reading are requirements of this course. A state-mandated Biology Keystone exam is given at the end of this course.

**CHEMISTRY 1 W/LAB** 4445  
**Grades 10, 11, 12 NCAA Approved** Credit 1.50  
**Prerequisite: “B” average in Algebra 1 Academic or Algebra 1 . “B” average in Biology 10 Honors or Biology 10 Academic. Sophomores must have completed Algebra 1 Academic with a “B” average or Algebra 1 with an “A” average AND be enrolled in Biology 10 Honors.** CHEMISTRY 1 is intended for students who are planning careers in science, medicine, and engineering. The subject matter of CHEMISTRY 1 is organized for modern theoretical development. There will be a strong emphasis on using a problem solving approach. The presentation of chemical theory is on the structure and periodicity of the existing elements as well as chemical behavior and stoichiometry. All subject matter is further reinforced by practical laboratory application and technique. Upon completion of this course students can take Advanced Chemistry Honors or AP Chemistry AND/OR any other science electives.

**ADVANCED CHEMISTRY HONORS W/LAB - (University of Pittsburgh Dual Enrollment Option)** 4402  
**Grades 11, 12 NCAA Approved** Credit 1.50  
**Prerequisite: “B” average in Chemistry 1 w/lab. “B” average in Algebra 2 Honors or Algebra 2 OR be currently enrolled in Algebra 2 Honors or Algebra 2. This course requires the completion of a summer enrichment assignment.** The Advanced Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first semester of college (General Chemistry 0101). This course offers a dual enrollment opportunity with the University Of Pittsburgh\*. This course is designed to develop and complete laboratory work on the collegiate level. This course differs qualitatively from AP Chemistry with the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by the students. This course is intended for the student who wants an additional year of chemistry but not the rigors of an AP course. \* If the student decides to take the class for dual enrollment, the student is responsible for the cost of the course at Pitt and is required to go to Pitt 3 times per year that extend beyond the normal school day. Pitt determines the tuition cost of the course and the class size.

**PHYSICS HONORS W/LAB** 4418  
**Grades 11, 12 NCAA Approved** Credit 1.50  
**Prerequisite: “B” average in Algebra 2 Honors or an “A” average in Algebra 2.** Physics is a science which attempts to describe events occurring in nature using the language of mathematics. This course is structured around the concepts of motion, energy, and wave properties. Topics include measurement and analysis of data, motion, force, energy, light, sound, and electricity. Laboratory work, including the use of computers as a data collection and analysis tool, is a major component of the course. Math principles will be applied to a variety of physical situations, so students should have a good command of algebra. Seniors may take Physics Honors as a math credit IN PLACE OF a science credit. Physics Honors MAY NOT be used as both a math and a science credit toward graduation requirements.

**ACADEMIC ZOOLOGY W/LAB** 4440  
**Grades 11, 12 NCAA Approved** Credit .50  
**Prerequisite: “A” average in Biology or a “B” average in Biology Academic or Biology Honors.** Zoology is the study of animals, including their classification, structure, physiology, and evolution. This course is intended for those students interested in learning about animal anatomy, adaptations, and behavior. Discussions, supplemental readings, papers, and presentations are requirements of this course. This is a semester course and does not count as one of the three science credits needed to graduate.

**ASTRONOMY AND GEOLOGY W/LAB**

4409

Grades 11, 12 *NCAA Approved*

Credit 1.00

This course blends the two subjects into one science that explains the threefold connection between humans, Earth, and the universe. Students begin with an introduction to size and distance relationships in the universe, the connection between space and time, the history of cosmology, and the theories explaining the nature of the universe. The course continues by examining theories of stellar formation and evolution and the subsequent formation of planetary systems. Topics addressed include forces, motion, matter, and energy along with practical observations of historic and current astronomical events. Once students are aware of Earth's position in space, they are presented with its composition and dynamics. Included in the Geology portion of the course is a study of tectonics, geologic history, mountain building, earthquakes, volcanoes, and an extensive examination of rocks and minerals. Labs include mineral and rock testing/identification, epicenter location, and interstellar distance calculations. Astro/Geo is a course that builds upon students' understanding of various Earth systems and will give them a deeper understanding of the nature of the universe and Earth's place therein.

**ENVIRONMENTAL SCIENCE W/LAB**

4407

Grades 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite: Successful completion of Pennsylvania Science and Biology.** Environmental Science focuses on the study of the basic principles of ecology, including food chains/food webs, biomes, and ecosystem relationships and the role and impact of human activities on natural systems. Environmental Science allows students to develop opinions through reasoning and laboratory exercises. Students are required to complete projects and presentations in this course. The course utilizes a variety of presentations, visuals, outdoor activities, and guest speakers.

**HUMAN ANATOMY and PHYSIOLOGY HONORS W/LAB**

4408

Grades 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite: "B" average in Biology 10 Honors or Biology 10 Academic AND "B" average in Chemistry 1 w/lab.**

The class is an advanced course designed to provide a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, nervous, cardiovascular, respiratory, digestive, urinary, and reproductive systems. Class includes lectures, discussions, and labs. The course is intended for and geared toward those students interested in medical professions and biological sciences.

**INTRODUCTION TO FORENSIC SCIENCE W/LAB**

4422

Grades 11, 12 *NCAA Approved*

Credit .50

**Prerequisite: "C" average in Biology Honors or Biology Academic.** Forensic Science is the application of science to law. This course is intended for those students interested in learning the discipline of Forensic Science and crime scene investigation. Students enrolled in this course will attain basic scientific knowledge in a wide range of fields including, but not limited to: crime scene analysis, DNA fingerprinting, hair and fiber analysis, forensic serology, fingerprinting identification and handwriting analysis. This is a semester course and does not count as one of the three science credits needed to graduate

**ORGANIC CHEMISTRY HONORS**

4439

Grades 11, 12 *NCAA Approved*

Credit 1.00

**Prerequisite: "B" average in Chemistry 1 w/lab.** Organic Chemistry Honors is a demanding elective course that deals with the chemistry of carbon compounds. This course focuses on four aspects: formula writing, structure, nomenclature, and basic organic reactions. Various types of organic molecules will be studied as well as the reactions that they undergo. This course is recommended for those who are planning to major in chemistry, medicine, pharmacy, biology, nursing or veterinary medicine.

**AP BIOLOGY (ADVANCED PLACEMENT) W/LAB**

4421

Grades 11, 12 *NCAA Approved*

Credit 1.50

**Prerequisite: "B" average in Biology 10 Honors AND a "B" average in Chemistry 1 w/lab with teacher approval from both courses. This course requires the completion of a summer enrichment assignment.** Advanced Placement Biology is designed to be the equivalent of a college introductory biology course usually taken by biology majors during the first year. The course centers on the four "big ideas" as prescribed by the College Board: Evolution, Cellular Processes, Energy and Communication (Genetics and Information Transfer) and Interactions. Twenty-five percent of the class is spent and assessed on the performance of laboratory investigations including detailed analysis and application.

**AP CHEMISTRY (ADVANCED PLACEMENT) W/LAB** 4412  
**Grades 11, 12** *NCAA Approved* **Credit 1.50**  
**Prerequisite: “B” average in Chemistry 1 w/lab AND Biology Honors. “B” average in Pre-Calculus Honors or Pre-Calculus OR currently enrolled in Pre-Calculus Honors or Pre-Calculus. This course requires the completion of a summer enrichment assignment.** The Advanced Placement Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college (General Chemistry 101 and 102). The course contributes to the development of the students’ abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. This course differs qualitatively from Advanced chemistry course with the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, and the kind of laboratory work done by the students. This course will prepare students to take the College Board AP Chemistry Exam.

**AP ENVIRONMENTAL SCIENCE W/LAB** 4444  
**Grades 11, 12** *NCAA Approved* **Credit 1.00**  
**Prerequisite: “B” average in PA Science Honors, Biology 10 Honors, AND Chemistry 1 w/lab or at least an 85% in PA Science Academic, Biology Academic, AND at least a “B” average in Chemistry 1/lab. This course requires the completion of a summer enrichment assignment.** The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. Topics of the course include: Earth systems and resources, the living world, population, land and water use, energy resources and consumption, pollution, and global changes. This course will prepare students to take the College Board AP Environmental Science Exam.

**AP PHYSICS 1 (ADVANCED PLACEMENT) W/LAB** 4441  
**Grades 11, 12** *NCAA Approved* **Credit 1.50**  
**Prerequisite: “B” average in Algebra 2 Honors; also students should have completed OR currently be enrolled in a Pre-Calculus course.** AP Physics 1 is an algebra-based, introductory college level physics course. It explores Newtonian mechanics (force and motion), work and energy, mechanical waves and sound, and electrical circuits. This course is recommended for students who are planning a career in engineering or science. Laboratory work, including the use of computers as a data collection and analysis tool, is a major component of the course. Math principles will be applied to a variety of physical situations, so students should have an excellent command of algebra. Juniors planning to take AP Physics C should take this course as a prerequisite. Seniors may take AP Physics 1 as a math credit IN PLACE OF a science credit. AP Physics 1 MAY NOT be used as both a math and science credit toward graduation requirements.

**AP PHYSICS C (ADVANCED PLACEMENT) W/LAB** 4404  
**Grade 12** *NCAA Approved* **Credit 1.50**  
**Prerequisite: Completion of AP Physics 1 with an “A” average. Physics Honors students may enroll in this course with an “A” average in Physics Honors. In addition the math requirements for ALL STUDENTS must be a “B” average in Pre-Calculus Honors or “A” average in Pre-Calculus. Students should have completed or be currently enrolled in an AP Calculus course.** The AP Physics course is designed for a student planning to enter an engineering, scientific, or physical science education career. It is the equivalent of the first year of a calculus-based college physics course. The aim of the course is to develop the student’s ability to interpret physical information, analyze physical problems in a sequence of steps, apply mathematical reasoning to physical situations, and perform and analyze experiments. The topics include motion (kinematics and dynamics), vectors, equilibrium, energy, rotational motion, oscillations, gravitation, electric force and fields, circuits, magnetism, and electromagnetic relationships. Laboratory work, including the use of computers as a data collection and analysis tool, is a major component of the course. Seniors may take AP Physics as a math credit IN PLACE OF a science credit. AP Physics MAY NOT be used as both a math and a science credit toward graduation requirements.

<b>COURSE</b>	<b>MATH REQUIREMENTS</b> <i>GUIDANCE OR MATH TEACHER NEEDS TO CONFIRM</i>	<b>SCIENCE REQUIREMENTS</b> <i>GUIDANCE OR SCIENCE TEACHER NEEDS TO CONFIRM</i>
PA Science Honors w/LAB	<ul style="list-style-type: none"> <li>· “B” average in PA Core Algebra 1</li> <li>· “A” average in Pre-Algebra Academic</li> </ul>	<ul style="list-style-type: none"> <li>· “A” average in 8th grade science AND scored PROFICIENT or ADVANCED on Grade 8 PSSA</li> <li>· Must have 8th grade science teacher approval</li> </ul>
PA Science Academic w/LAB	<ul style="list-style-type: none"> <li>· “C” average in PA Core Algebra 1</li> <li>· “B” average in Pre-Algebra Academic</li> </ul>	<ul style="list-style-type: none"> <li>· “B” average in 8th grade science</li> </ul>
PA Science w/LAB	<ul style="list-style-type: none"> <li>· Successful completion of Pre-Algebra</li> </ul>	<ul style="list-style-type: none"> <li>· “C” average in 8th grade science</li> </ul>
Biology Honors w/LAB	<ul style="list-style-type: none"> <li>· No Math Requirement</li> </ul>	Students must have a 85% average in PA Science 9 Honors or a 95% in PA Science Academic
Biology Academic w/LAB	<ul style="list-style-type: none"> <li>· No Math Requirement</li> </ul>	Students must have a 70% average in PA Science Academic or a 90% in PA Science.
Biology w/LAB	<ul style="list-style-type: none"> <li>· No Math Requirement</li> </ul>	<ul style="list-style-type: none"> <li>· Passing grade in PA Science.</li> </ul>
AP Biology W/LAB	<ul style="list-style-type: none"> <li>· No Math Requirement</li> </ul>	<ul style="list-style-type: none"> <li>· “B” average in BOTH Biology Honors and <b>CHEMISTRY 1 W/lab.</b></li> </ul>
Human Anatomy and Physiology Honors W /LAB	<ul style="list-style-type: none"> <li>· No Math Requirement</li> </ul>	<ul style="list-style-type: none"> <li>· “B” average in Biology Honors or Academic AND <b>CHEMISTRY 1 W/lab</b></li> </ul>

Chemistry 1 W/lab	<ul style="list-style-type: none"> <li>· 10th graders “B” average in Algebra 1 Academic OR Algebra 1 with an “A” average</li> <li>· 11th and 12th graders “B” average in Algebra 1 Academic or Algebra 1 (This does not include Algebra 1B)</li> </ul>	<ul style="list-style-type: none"> <li>· 10th grade students must also be enrolled in Biology Honors</li> <li>· 11th and 12th “B” average in Biology Honors or Biology Academic.</li> </ul>
Advanced Chemistry Honors W/LAB	<ul style="list-style-type: none"> <li>· “B” average in Algebra 2 Honors or Algebra 2 OR currently enrolled in Algebra 2 Honors or Algebra 2</li> </ul>	<ul style="list-style-type: none"> <li>· “B average in <b>CHEMISTRY 1 W/lab.</b></li> </ul>
Organic Chemistry Honors	<ul style="list-style-type: none"> <li>· No Math Requirement</li> </ul>	<ul style="list-style-type: none"> <li>· “B” average in <b>CHEMISTRY 1 W/lab.</b></li> </ul>
AP Chemistry W/LAB	<ul style="list-style-type: none"> <li>· “B” average in Pre-Calculus Honors or Pre-Calculus OR currently enrolled in Pre-Calculus Honors or Pre-Calculus</li> </ul>	<ul style="list-style-type: none"> <li>· “B” average in <b>CHEMISTRY 1 W/lab</b> and Biology Honors.</li> </ul>
Physics Honors W/LAB	<ul style="list-style-type: none"> <li>· “B” average in Algebra 2 Honors or “A” in Algebra 2</li> <li>· May be used as a math credit for <u>seniors only</u></li> <li>*Cannot be used as both a math and science credit</li> </ul>	<ul style="list-style-type: none"> <li>· Should be taken after PA Science, Biology, and <b>CHEMISTRY 1 W/LAB</b></li> <li>* May be taken with <b>CHEMISTRY 1 W/lab</b></li> </ul>
AP Physics 1 W/LAB	<ul style="list-style-type: none"> <li>· “B” average in Algebra 2 Honors</li> <li>· Should have completed Pre-Calculus OR currently enrolled in Pre-Calculus</li> <li>· May be used as a math credit for <u>seniors only</u></li> <li>*Cannot be used as both a math and a science credit</li> </ul>	<ul style="list-style-type: none"> <li>· This course should be taken by a Junior who wants to take AP Physics C course as a senior</li> </ul>
AP Physics C W/LAB	<ul style="list-style-type: none"> <li>· “B” average in Pre-Calculus Honors OR “A” average in Pre-Calculus</li> <li>· Should have completed Calculus OR currently enrolled in Calculus</li> <li>· May be used as a math credit for <u>seniors only</u></li> <li>*Cannot be used as both a math and science credit</li> </ul>	<ul style="list-style-type: none"> <li>· “A” average in Physics Honors or AP Physics 1</li> </ul>
Astronomy and Geology W/LAB	<ul style="list-style-type: none"> <li>· No Math Requirement</li> </ul>	<ul style="list-style-type: none"> <li>· For the student in the lower level math courses</li> <li>· For the student not interested in an AP track or higher level science electives</li> </ul>

AP Environmental Science W/LAB	· 11th and 12th graders “B” average in Algebra 1 Academic or Algebra 1	Students must have a “B” average in PA Science Honors, Biology 10 Honors, AND Chemistry 1 w/lab or at least an 85% in PA Science Academic, Biology Academic, AND at least a “B” average in Chemistry 1/lab.
Environmental Science W/LAB	· No Math Requirement	· For the student in the lower level math courses · For the student not interested in an AP track or higher level science electives *Not a prerequisite for AP Environmental Science
Introduction to Forensic Science W/LAB	· No Math Requirement	· “C” average in Biology Honors or Academic.
Academic Zoology W/LAB	· No Math Requirement	· “B” average in Biology Honors OR “A” average in Biology Academic or Biology

## SUGGESTED SCIENCE COURSES FOR VARIOUS CAREER PATHS

	Medical Field/Life Sciences	Engineering/Physical Sciences/Military Academy	Technical/Trade/Enlisted Military	Science/Math Teacher	Business/Liberal Arts
<b>GRADE 9</b>	PA Science Honors*	PA Science Honors*	PA Science Honors* OR PA Science	PA Science Honors* OR PA Science	PA Science Honors* OR PA Science
<b>GRADE 10</b>	Biology Honors AND <b>CHEMISTRY 1</b> <b>W/lab*</b>	Biology Honors AND <b>CHEMISTRY 1</b> <b>W/lab *</b>	Biology Honors OR Biology	Biology Honors OR Biology	Biology Honors OR Biology
<b>GRADE 11</b>	Physics Honors* OR AP Physics 1*	Physics Honors* OR AP Physics 1*	<b>CHEMISTRY 1</b> <b>W/lab*</b> Physics Honors* Astronomy/Geology Environmental Sci.	<b>CHEMISTRY 1</b> <b>W/lab *</b> Physics Honors* AP Physics 1* Astronomy/Geology Environmental Sci.	<b>CHEMISTRY 1</b> <b>W/lab*</b> Physics Honors* Astronomy/Geology Environmental Sci.
<b>*MUST MEET MATH REQUIREMENT SEE COURSE DESCRIPTIONS</b>					
<b>ELECTIVES</b>	AP Biology Adv. Chem. Honors* AP Chemistry* Anatomy/Phys. Organic Chemistry AP Physics C* AP Enviro. Sci. Astronomy/Geology Environmental Sci. Intro to Forensic Science Academic Zoology	AP Biology Adv. Chem. Honors* AP Chemistry* Anatomy/Phys. Organic Chemistry AP Physics C* AP Enviro. Sci. Astronomy/Geology Environmental Sci. Intro to Forensic Science Academic Zoology	AP Biology Adv. Chem. Honors* AP Chemistry* Anatomy/Phys. Organic Chemistry AP Physics C* AP Enviro. Sci. Astronomy/Geology Environmental Sci. Intro to Forensic Science Academic Zoology	AP Biology Adv. Chem. Honors* AP Chemistry* Anatomy/Phys. Organic Chemistry AP Physics C* AP Enviro. Sci. Astronomy/Geology Environmental Sci. Intro to Forensic Science Academic Zoology	AP Biology Adv. Chem. Honors* AP Chemistry* Anatomy/Phys. Organic Chemistry AP Physics C* AP Enviro. Sci. Astronomy/Geology Environmental Sci. Intro to Forensic Science Academic Zoology



# SOCIAL STUDIES

## UNITED STATES HISTORY 9 – 1607 to 1900

2200

Grade 9 *NCAA Approved*

Credit 1.00

This United States History course studies the period from colonization to the turn of the century era of events. Written and oral communication skills will be emphasized, in addition to analyzing and interpreting historical and cultural information.

## UNITED STATES HISTORY 9 HONORS – 1607 to 1900

2202

Grade 9 *NCAA Approved*

Credit 1.00

**Prerequisite: This course requires a final grade of a “B” or better in the students 8th grade History course.** This United States History course studies the period from colonization to 1900 in America. Written and oral communication skills will be emphasized, in addition to analyzing and interpreting historical and cultural information. The Honors students must accept that he/she will be required to complete additional academic work and extra reading material outside of the classroom and guidelines will be stricter than those for a general history class.

## UNITED STATES HISTORY 10 – Contemporary U.S. 1900 to the present

2201

Grade 10 *NCAA Approved*

Credit 1.00

This United States History course studies the development of our country from 1900 to the present. Current events are also an integral part of this offering. Written and oral communication skills will be emphasized, in addition to analyzing and interpreting historical and cultural information.

## UNITED STATES HISTORY 10 HONORS - Contemporary U.S 1900 to present

2203

Grade 10 *NCAA Approved*

Credit 1.00

**Prerequisite: This course requires a final grade of a “B” or better in U.S. History 9 Honors or an “A” in U.S. History 9.** Topics that are emphasized include politics, domestic policy, and foreign relations. Current events are also an integral part of this offering. Written and oral communication skills will be emphasized, in addition to analyzing and interpreting historical and cultural information. The Honors student must accept that he/she will be required to complete additional academic work and extra reading material outside of the classroom and guidelines will be stricter than those for a general history class.

## WORLD HISTORY - 1450 C.E. to the present

2211

Grade 11 *NCAA Approved*

Credit 1.00

This course will explore the major developments in World History from 1450 C.E. to the present with particular emphasis on political, geographic, cultural, economic as well as historical perspective. Written and oral communication skills will be emphasized, in addition to analyzing and interpreting historical and cultural information.

## WORLD HISTORY HONORS - 1450 C.E. to the present

2212

Grade 11 *NCAA Approved*

Credit 1.00

**Prerequisite: This course requires a final grade of a “B” or better in U.S. History 10 Honors or an “A” in US History.** This course will explore the major developments in World History from 1450 C.E. to the present with particular emphasis on political, geographic, cultural, economic as well as historical perspective. At the Honors level, the course is an accelerated academic study. Research and independent study will be an integral part of the course. Students will be required to participate in additional activities to complete the program. Written and oral communication skills will be emphasized, in addition to analyzing and interpreting historical and cultural information. The Honors student must accept that he/she will be required to complete additional academic work outside the classroom and that the guidelines will be stricter than those for a general world history class.

## CONTEMPORARY AMERICAN DEMOCRACY

2221

Grade 12 *NCAA Approved*

Credit 1.00

**Prerequisite: This course is required for all seniors with the exception of those who are taking CAD-Honors.**

The purpose of this course is to provide students with an overview of economics and American government. Students pursue an in-depth study of consumerism and function of government. Written and oral communication skills will be emphasized, in addition to analyzing and interpreting historical and cultural information.

**CONTEMPORARY AMERICAN DEMOCRACY HONORS**

2220

**Grade 12** *NCAA Approved***Credit 1.00****Prerequisite: This course requires a final grade of a “B” or better in World History Honors or an “A” in World History.**

The purpose of this course is to provide the students with an overview of economic principles of a market economy, and the contemporary application of the function of government, each of which will cover one semester. The economics semester will include microeconomic principles for both production and consumerism, macroeconomic principles of our free-market economy, environmental economics, the stock market, and consumer behavior. The government semester will address the contemporary functions of all three branches of government, with an emphasis on politics, congressional procedures, and the Supreme Court. Topics will include campaign restrictions and practices, elections, international diplomacy, changing political influences, and landmark rulings and their effects on current society. Honors students are subject to a more rigorous assessment schedule, a more demanding workload, and a higher expectation of outside reading and writing assignments than general students. Assessments will include news-based quizzes, chapter and multi-chapter exams, presentations, quizzes, and projects. There will be a final exam at the end of each semester.

**AMERICAN POLITICS (College in High School)**

2238

**Grades 11 and 12** *NCAA Approved***Credit 1.00****Prerequisite: This course requires a final grade of a “B” or better in their prior Honors History and Honors English**

**course.** This is an introductory course in American Political Science. The purpose of this course is to teach students about the American political system and about broad concepts used by social scientists to study politics. Topics will include the Constitution, the powers of Congress, the Presidency and Judiciary, Civil Rights and Liberties, Public Opinion, Voting, and Elections. Students have the potential to individually pay and earn college credit through the University of Pittsburgh. Due to this, the rigor of the course will be comparable to that of an Advanced Placement or first-year college course.

**CIVIC LEADERSHIP IN ACTION I**

2236

**Grades 10, 11, 12****Credit .50**

A semester course open to 10th, 11th and 12th grade students focused on the history and theory of leadership. Along with the development of communication skills and personal strengths this course will help students research, develop and empower his/her own personal leadership style. Leadership topics that will be developed through small group and large group discussions will include; organizational culture, influence, persuasion, active listening, time management, goal setting, intrinsic and extrinsic motivation, and empowerment.

**CIVIC LEADERSHIP IN ACTION II**

2237

**Grades 10, 11, 12****Credit .50**

**Prerequisite: Civic Leadership I.** A semester course open to 10th, 11th and 12th grade students focused on the mission of leadership. As a follow up to Civic Leadership I, this class will enhance a student’s personal leadership style and drive vision in implementation. Leadership topics that will be developed will include; group behavior, team building, decision-making, paradigm shifts, and strategic planning. In particular, the following leadership models will be discussed: transactional, transformational, servant, situational, emergent, strategic, and team. Leaders from the business, educational, political, and athletic worlds will speak to the students and have a question and answer session with them. Using majority rules, the students will select a cause and implement what they have learned in Civic Leadership 1 and 2 into a service project.

**LAW & CITIZENSHIP: KNOW YOUR RIGHTS!**

2235

**Grades 10, 11, 12** *NCAA Approved***Credit .50**

Know Your Rights is a class designed to teach students about American Constitutional Law as it relates to high school students. In this class, students will be able to read and analyze American case law and evaluate the decisions of the United States Supreme Court. Topics to be discussed include Free Speech, Search and Seizure, and Criminal Rights. The course work will include readings that may be challenging for an average or below-average reader, and students will be required to write papers or create class presentations as a means of assessment and evaluation. The course will also include a great deal of small and large group discussion.

**MENTAL AND SOCIAL HEALTH (MASH)**

2231

**Grades 10, 11, 12****Credit 1.00**

This elective is an introductory course in the basic concepts of general psychology. Among the topics covered are child development, emotions, needs, learning principles and theories, relationships, social problems, mental health, mental illness and therapy. **NOTE: Students who take MASH cannot take AP Psychology.**

**AP EUROPEAN HISTORY (ADVANCED PLACEMENT)**

2234

**Grades 9, 10, 11, 12 NCAA Approved****Credit 1.00**

**Prerequisite: This course requires a final grade of a “B” or better in their prior Honors History course and a final grade of a “B” or better in their Honors level English course. There will also be a mandatory summer assignment.** The study of European History since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. Without this knowledge, we would lack the context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

**AP PSYCHOLOGY (ADVANCED PLACEMENT)**

2232

**Grades 9, 10, 11, 12 NCAA Approved****Credit 1.00**

The goal of this course is to increase the understanding of psychology, its methods, theory and research. The course will explore the psychological facts, principles and phenomena associated with each of the major subfields within psychology. This course is taught at the collegiate level and student study habits and participation should reflect this fact. The basic objective of this course is to introduce the student to the methods, theory and research of psychology. It is hoped that knowledge of psychological inquiry will provide the student with a way of perceiving aspects of the complexity of human behavior. NOTE: Students who take MASH cannot take AP Psychology.

**AP UNITED STATES HISTORY (ADVANCED PLACEMENT)**

2222

**Grade 10(Core), Grades 11, 12(elective) NCAA Approved****Credit 1.00**

**Prerequisite: This course requires a final grade of a “B” or better in their prior Honors History course and a final grade of a “B” or better in their Honors level English course.** The AP program in United States History is designed to provide students with analytical skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials – their relevance to a given interpretive problem, their reliability, and their importance – and to weigh the evidence and interpretations presented in historical scholarship. AP U.S. History students will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. Summer work is required. Students are encouraged to take the AP United States History Exam in May.

**AP WORLD HISTORY: Modern, 1200-Present**

2209

**Grades 11 (core), 12 (elective) NCAA Approved****Credit 1.00**

**Prerequisite: This course requires a final grade of a “B” or better in AP American History or their prior Honors History course and a final grade of a “B” or better in their Honors level English course.** AP World History will enable students to develop an understanding of world processes and the evolution of different societies. It emphasizes relevant factual knowledge, interpretive issues, and skills in analyzing historical evidence and research. The course offers a balanced global coverage with Africa, the Americas, Asia, Europe, and Oceania all represented. The timeline will cover 1200C.E. to the present and highlight topics such as philosophy, arts and architecture, religions, trade and commerce, revolutions, and ethnic constructions. Students can expect independent reading assignments, and intensive verbal and written analysis. The course will also correspond to the AP Exam to be facilitated in May.

## Social Studies Course Sequence

### 9th grade

**Core:**

US History 9  
US History 9 Honors

**Electives:**

AP European History  
AP Psychology

**\*WACTC**

US History 9

### 10th grade

**Core:**

US History 10  
US History 10 Honors  
AP US History

**Electives:**

AP European History  
AP Psychology  
MASH  
Law and Citizenship  
Civic Leadership I  
Civic Leadership II

**\*WACTC**

No History Course

### 11th grade

**Core:**

World History  
World History Honors  
AP World History

**Electives:**

AP US History  
AP European History  
AP Psychology  
CHS American Politics  
MASH  
Law and Citizenship  
Civic Leadership I  
Civic Leadership II

**\*WACTC**

World History

### 12th grade

**Core:**

CAD  
CAD Honors

**Electives:**

AP US History  
AP European History  
AP Psychology  
CHS American Politics  
MASH  
Law and Citizenship  
Civic Leadership I  
Civic Leadership II  
AP World History

**\*WACTC**

CAD

# TECHNOLOGY EDUCATION

## ARCHITECTURAL DESIGN I

0592

Grades 9, 10, 11, 12

Credit .50

This course prepares students who wish to pursue post high-school education in Architecture or Interior Design. Students will explore the methods and techniques used in designing architectural residences both technically and aesthetically with the use of a wide variety of media. The design and layout of each room of a residence will include a plan, elevation and perspective with emphasis upon interior design. This course utilizes professional software called Autodesk REVIT. Students will develop realistic models that will visually represent their electronic designs. Evaluation will be based upon successful completion of a set of working drawings, a model, quizzes, and teacher observations.

## ARCHITECTURAL DESIGN II

0596

Grades: 10, 11, 12

Credit .50

**Prerequisite: Architectural Design I.** Students in Architectural Design II will further explore the methods and techniques used in designing residential and commercial buildings as well as model fabrication to depict realistic views on design. Students will utilize REVIT software and physical model prototyping to explain solutions; student will complete a job shadow as well as on site-real world problem solving. The studio aspect of the course will include spatially abstract exercises to more complex programs that require integrative thinking at various scales and situated on sites of increased complexity, while integrating ecological, landscape, and tectonic demands. In all four stages of the visualization sequence, hand, digital, 2-D, and 3-D methods are explored. Student evaluations will be based on successful completion of assignments, quizzes, tests, projects and teacher observations.

## CMTV BROADCASTING

0579

Grade 11, 12

Credit.50

**Prerequisite: Students must have completed at least one public speaking course at the high school and have the written recommendation of the public speaking teacher.** This course will offer experienced public speaking students the exposure to the production aspects of a news broadcast from in front of the camera. Students will be responsible for the broadcasting of morning announcements via the CMTV production studio. Broadcasting students will work in conjunction with CMTV production crew.

## CMTV PRODUCTION

0580

Grades 11, 12

Credit 1.00

**Prerequisite: Students must have successfully completed the digital video course and have the written recommendation of the digital video teacher.** CMTV classes are designed to further a student's knowledge in the area of television production and broadcast journalism. In this class, students will supervise all aspects of LIVE television broadcasting as well as prepare graphic overlays, offline media, and stand-alone videos for broadcast in house, and later to the community. Students will not work exclusively in the television studio, but will also be expected to produce commercials, promotional videos, etc. Some degree of community involvement will be required. CMTV will be a product oriented course, as students will be expected to produce daily announcements for broadcast throughout the school.

## COMMUNICATION DESIGN ENGINEERING

0588

Grades 9, 10, 11, 12

Credit 1.00

Communication Design Engineering introduces students to principles and procedures of graphics and the use of equipment in the world of communication. As the main concepts of CorelDraw and Photoshop are learned, students will produce products like t-shirts, decals, license plates, and various laser engraved items to apply what they have learned. This hands-on course is an engaging and exciting way to round out your school studies.

## DESIGN AND INNOVATE

0591

Grades 9, 10, 11, 12

Credit .50

This fun and engaging course offers opportunity for students to cultivate creativity and experience innovation. Students rely on inquiry and hands-on problem-solving as they integrate lessons from science, technology, engineering, art, and math (STEAM). Project focus will be on sustainable technologies and local/global issues. This environment is fueled by the design process and inquiry-based thinking as students research, exchange ideas, design parts, build models, and make modifications all while collaborating to develop solutions to problems. Students will have the opportunity to use software programs such as CorelDraw and may also use various equipment like a laser engraver, vinyl cutter, or 3D printing- as the lesson necessitates.

## **DIGITAL VIDEO PRODUCTION**

**0578**

**Grade 9, 10, 11, 12**

**Credit .50**

This course is intended for the student who wishes to gain knowledge in the ideation, development, and production of digital media. Students will learn concepts and techniques associated with the creation of videos and other methods of digital communication. Proper procedures in multimedia will be discussed. Students will be grounded by a strong multimedia theory but will work in a hands-on environment and will be exposed to lighting, audio engineering, filming, producing, and editing of video productions. Students will be exposed to online and offline editors and be trained in the proper use of each. Each student will be responsible for producing a final video as completion of the course requirements.

## **ELECTRICITY PRINCIPLES AND APPLICATIONS (Dual Enrollment Opportunity)**

**0598**

**Grades 10, 11, 12**

**Credit .50**

In this course, electricity and electronic systems are explored through the study of DC and AC fundamentals. Practical experience in parallel and series circuit analysis is gained by means of electronic bench test equipment and troubleshooting. Students will have the opportunity to earn college credits through PTC.

## **ENGINEERING DESIGN I**

**0593**

**Grades 9, 10, 11, 12**

**Credit .50**

This course prepares students who wish to pursue post high-school education in Engineering. Students in Engineering Design will explore the methods and techniques used in designing and producing consumer goods electronically and physically. Students will utilize Autocad & Inventor software and physical model prototyping to explain solutions. Students will explore activities in the areas of transportation, structure, and consumer goods manufacturing. Student evaluations will be based on successful completion of assignments, quizzes, tests, projects and teacher observations.

## **ENGINEERING DESIGN II**

**0597**

**Grades: 10, 11, 12**

**Credit .50**

**Prerequisite: Engineering Design I.** Students in Engineering II research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors and ethics. Students will utilize Autocad & Inventor software and physical model prototyping to explain solutions; students will complete a job shadow as well as on site-real world problem solving. This course will encompass project and research based computer aided drafting and designs that extend the learning experiences. Students will focus on selected disciplines of engineering areas such as: manufacturing, power/energy/transportation, agriculture, bio-medical, robotics, hydraulics, electricity/electronics, communications, construction systems, alternative energy and computer aided design, and problem solving. Student evaluations will be based on successful completion of assignments, quizzes, tests, projects and teacher observations.

## **EXPLORING DRONE TECHNOLOGY**

**0599**

**Grades 10, 11, 12**

**Credit .50**

Students will gain an understanding of the forces of flight, how each affects the others, and how different types achieve and maintain stable flight. Students will begin to learn basic flight maneuvers with a variety of systems and demonstrate their flight skills on the simulators. Students will gain an understanding of UAS electrical theory and how electrical components communicate with one another. Students will be tested on the knowledge gained in the first half of the class and will continue to hone flying skills on the simulators and Live flights. Students will work on editing films for their group project and will conduct research for their individual project. Students will rigorously train and study for the FAA Part 107 Unmanned Aircraft Pilots License. This will include expanding knowledge of rules and regulations and learning how to read aeronautical charts and aviation weather reports. At the end of this unit, students will take the FAA Part 107 exam which will allow students to become commercially certified Drone Pilots. **Students must be 16 years of age by completion of the course to obtain the license.**

## **FOUNDATIONS OF TECHNOLOGY**

**0586**

**Grades 9, 10, 11, 12**

**Credit .50**

Students in this class will produce the products sold at the CM School Store. This exciting course will explore strategies and operations of a real manufacturing enterprise. Students will be engaged in the design and development of diverse products using CorelDraw software and equipment such as vinyl cutters, heat presses, screen printing, laser engraving and more. Popular products that our students make include t-shirt making and other decorated apparel. Students will collaborate with our sister class, Entrepreneurship II to achieve the ultimate hands-on experience as an Entrepreneur.

**PHYSICAL APPLICATIONS OF TECHNOLOGY I****0587****Grades 9, 10, 11, 12****Credit .50**

This course provides students with an introduction to tools, materials, and processes used to solve problems using the physical technologies. The content is presented in lecture/discussion and activity based methodologies. The goal is to provide a broad picture of manufacturing tools, materials, and processes and how they can be applied in day to day life, as well as their application in a career-based on technical skills. Students will complete 1-2 projects to practice the skills and methods learned.

**PHYSICAL APPLICATIONS OF TECHNOLOGY II****0595****Grades 10, 11, 12****Credit .50**

**Prerequisite: Physical Applications of Technology I.** This course will build upon what students learned in Physical Applications of Technology I. The class will discuss and utilize the design process to design a project of their own choosing while using the lab equipment to bring their designs to fruition.

**ROBOTICS I****0572****Grades 9, 10, 11, 12****Credit .50**

This course will introduce students to Agile Robotics Systems. Students will begin by designing and building a robot to complete a task. This robot will serve as a basic platform to apply both radio control and autonomous programming skills. Throughout the course students will learn and apply problem solving, teamwork, and time management skills. Assessment for the course will be based on tests, completion of projects, programming activities, and class participation.

**ROBOTICS II****0573****Grades 10, 11, 12****Credit 1.00**

**Prerequisite: The completion of Robotics I with a "C" or better.** This rigorous course focuses on advanced robotic topics to create a robot from scratch for competing in the Bots IQ competitions. The Bots IQ competition involves creating a battlebot type robot to compete against other school districts. The course provides a unique, hands-on experience that also aids them in the discovery of career possibilities in engineering, manufacturing, and other STEM related fields. This project involves a partnership with local businesses for assistance in planning and manufacturing the custom parts associated with the project. Students are also provided with the opportunity to visit and network with local engineers at these businesses. A few of the topics that students will learn about consist of: Project Planning and Organization, Robot Design, Material Types, Electronic and Circuitry, Drawing with 3D CADD software, Machining Processes, 3D Printing, Engineering Documentation, and Fasteners. This is the perfect class for the eager and motivated student that wants to build beyond what is offered in standard building kits. Possible after school involvement may be expected for the completion of this project. Assessment for the course will be based on the successful completion of tests, projects, assignments, participation, and teacher observation.

# ARTS & HUMANITIES COURSES

## Art

Advanced Art Honors\*  
AP Studio Art\*  
Concept & Creative Thinking\*  
Form & Function\*  
Introduction to Art\*  
Introduction to Ceramics\*  
Media & Technique\*  
Observational Drawing\*  
Visual Arts Communications\*

## Business

Business and Consumer Law  
Desktop Publishing  
Web Page Design & Development\*

## Computer Science

AP Computer Science Principles  
AP Computer Science A

## English

AP Literature & Composition  
CMTV Broadcasting\*  
Creative Writing  
Drama I/II/III/IV\*  
English 9/10/11/12 Honors  
Exploring Poetry\*

## Foreign Language

AP Spanish  
French I/II/III/IV  
German I/II/III/IV  
Latin I/II  
Spanish I/II/III/IV

## Music

American Popular Music\*  
AP Music Theory\*  
Band Honors\*  
Bella Voce\*  
Concert Choir/Bass Choir\*  
Concert Choir/Treble Choir\*  
Jazz Ensemble\*  
Jazz Lab Band\*  
Music Theory\*  
Piano Lab\*  
World Percussion Ensemble\*

## Social Studies

American Politics (CHS)  
AP European History  
AP Psychology  
AP United States History  
AP World History  
Civic Leadership in Action I/II



Great Books

Holocaust Literature

Public Speaking I/II\*

Technical Drama I/II/III\*

Contemporary American Democracy Honors

Law & Citizenship

Mental & Social Health

U.S. History 9,10 Honors

**Family and Consumer Science**

Early Childhood Education I/II\*

Early Childhood Education Indep. Study\*

Family & Community Studies\*

Foods & Nutrition\*

Global Cuisine\*

**Foreign Language**

Advanced Latin Honors

AP French

**Technology Education**

CMTV Production\*

Advanced Technological Design\*

Architectural Design I/II\*

Communication Design Engineering\*

Digital Video Production\*

Engineering Design I/II\*

Foundations of Technology\*

Physical Applications of Technology I/II\*1

Robotics I/II

**\*Fulfills the requirement for Arts and Humanities. All others fulfill the requirement for Humanities only**

**Consultants**

Mr. Michael Daniels, Superintendent

Mr. Scott Chambers, Assistant Superintendent

Mrs. Grace Lani, Director of Curriculum & Instruction

Mr. Kenneth Crowley, Principal

Mrs. Diana Fronczek, Assistant Principal

Mrs. Lorien Moyer, Assistant Principal

**Canon-McMillan High School Counselors**

Mrs. Nadia Abbondanza

Mrs. Susan Humbertson

Mrs. Karen Rubican

Mrs. Kathleen Sharkady

Miss Brittany Taylor

# CANON-MCMILLAN HIGH SCHOOL PARENT PLANNING AND PREPARATION TIMELINE

## FRESHMEN

### ~ PARENT PLANNING AND INFORMATION ~

ORIENTATION DAY for 9th grade students is held generally the first Monday before the new school year begins. Please check the 2020-2021 school calendar (when it is available) for the date.

SCHEDULES are made available online in August. Please be sure that he/she has all the major classes scheduled. Schedule change requests may be submitted using the online form. Changes are limited to necessity, not convenience.

ATTENDANCE is essential to academic performance and required by State law! Please know when your student has 3 unexcused absences, he/she will be referred to BluePrints, the district truancy elimination plan program, and may be cited through the magistrate.

ACADEMIC PROGRESS should be monitored. Please help your child set realistic goals each grading period. Check the school calendar for scheduled dates for progress reports and report cards. Attend Open House in September to meet with your child's teachers and schedule a conference in November, especially if your child is having difficulty in a certain class.

POWERSCHOOL should be checked daily for progress and attendance. Email the teachers if you have concerns about your child. Please make sure your email address is up-to-date so you can receive email blasts. If you have a change in address, notify Guidance of the change.

SCHOOL COUNSELING RESOURCE GROUP on SCHOOLGY is a great source of information for parents and students. You can find important information on career development, national testing (SAT/ACT), paying for college, volunteer, job, and scholarship opportunities, and much, much more.

EXTRACURRICULAR ACTIVITIES should be encouraged in both in and out of school. Be sure that the activities are not impacting student grades. Colleges like to see that students have good time management skills and can maintain grades while involved in other activities. This would be a good time to begin some volunteering in your community as well. Volunteer opportunities are posted in the school counseling office and announced on CMTV.

WESTERN AREA CAREER AND TECHNOLOGY CENTER is available to interested students beginning in the sophomore year. Freshman students will be able to attend tour of Western Area CTC, usually in February or March. If you have any questions about the WACTC program, please contact Mrs. Kathleen Sharkady, CMHS Counselor, (724)745-1400 ext. 5023.

NCAA – If you are planning to play sports in college, check with your school counselor to see if your courses are NCAA approved. You can register with the NCAA at the end of 10th grade. If you have any questions, please contact Mr. Mike Evans, Associate Athletic Director, (724)745-1400 ext. 5002.

## SOPHOMORES

### ~ FALL SEMESTER ~

MONITOR ACADEMIC PROGRESS - Continue to monitor your child's progress. The parental component of the PowerSchool System provides access to your child's progress. Be sure to keep in touch with your child's teachers via phone or email. Make sure you have created a PowerSchool account to access report cards and progress reports.

PSAT - All sophomores are required to take the PSAT in October. Visit [www.collegeboard.org](http://www.collegeboard.org) for more information on this and other testing and post-secondary resources. For accommodations, see Mrs. Humbertson..

GET INVOLVED - The people who read college applications are not looking just for strong grades. Your child should become

involved in activities outside the classroom. He/she can work toward leadership positions in the activities he/she likes best. Encourage your child to become involved in community service for volunteer hours.

READ, READ, READ! - Encourage your child to read as many books as he/she can. Read the newspapers every day to learn about current affairs. Be sure to work on writing skills---everyone needs them.

ACCOMMODATIONS - If you receive accommodations from CM, you may be eligible to request them for national testing. Be sure to speak about this with your counselor.

## **SOPHOMORES**

### ~ SPRING SEMESTER ~

NCAA - Check with your counselor to be sure that you are taking a core curriculum that meets the NCAA requirements (Division I & II). Register with the NCAA Clearinghouse at the end of 10th grade. For more information visit [www.eligibilitycenter.org](http://www.eligibilitycenter.org) or contact Mr. Mike Evans, Associate Athletic Director, (724)745-1400 ext. 5002.

EXPLORE COLLEGE AND CAREER OPTIONS - Start to gather information, go to college fairs, and begin to make informal visits to colleges or technical schools. Discuss your son or daughter's aptitudes, interests, and abilities with him/her, and begin to view these in terms of possible college majors and/or career options. Visit [www.collegeboard.org](http://www.collegeboard.org) or [www.pacareerzone.org](http://www.pacareerzone.org)

SCHEDULING - Review your child's four-year high school plan. Read the Program of Studies booklet with your child and be sure he/she has selected the correct classes. Note the prerequisite for all classes.

MILITARY ACADEMIES - If your child is interested in attending a military academy such as West Point or the United States Naval Academy now is the time to start planning and getting information.

CONTINUE SAVING FOR COLLEGE/ TECHNICAL SCHOOL - Keep putting money away for post high school education. Encourage your son/daughter to get a summer job.

PLAN SUMMER ACTIVITIES - Help your son or daughter choose meaningful activities for the summer months. If possible, look for activities that relate to a career or career field he/she is considering.

## **JUNIORS**

### ~ FALL SEMESTER ~

CREDITS - Verify with your counselor that you have scheduled the required courses/credits necessary to graduate. Also be sure you have the required courses necessary for the colleges you are considering.

COLLEGE FAIRS - Use this opportunity to meet with many college representatives from across the country. (National College Fair, California University of PA Fair) Make college contacts and request information.

TESTING - Take the PSAT in October to be eligible for National Merit Scholarship competition and to give an indication of projected SAT scores. Check also for SAT and/or Act testing. Check with your schools you are considering to verify which test scores are required---SAT I, SAT II Subject Tests and/or ACT. Juniors usually take the SAT's in May or June of their Junior year, and ACT's in April or June. Visit [www.collegeboard.com](http://www.collegeboard.com). Fee waivers may be available for those who qualify. See your school counselor.

NCAA - File NCAA Clearinghouse forms if participating in Division I or II athletics. For more information visit [www.eligibilitycenter.org](http://www.eligibilitycenter.org) or contact Mr. Mike Evans, Associate Athletic Director, (724)745-1400 ext. 5002.

COLLEGE/TECHNICAL/MILITARY REPRESENTATIVES - Check with School Counseling Department to see when they will be visiting CMHS.

RESEARCHING POSTSECONDARY SCHOOLS - Explore colleges and trade/technical schools.

POST-SECONDARY SCHOOL VISITATIONS - Begin visiting some colleges you are considering. Make an appointment with an Admissions Counselor and the Financial Aid Office. Take an unofficial transcript (from Guidance). Tour the campus and classrooms, preferably when school is in session.

## **JUNIORS**

### **~ SPRING/SUMMER ~**

NCAA - Check with your counselor to be sure that you are taking a core curriculum that meets the NCAA requirements (Division I & II). Register with NCAA Clearinghouse at the end of 11th grade. For more information visit [www.eligibilitycenter.org](http://www.eligibilitycenter.org) or contact Mr. Mike Evans, Associate Athletic Director, (724)745-1400 ext. 5002.

COLLEGE TESTING - Register for the ACT or SAT during your spring semester. Test prep information can be found in the guidance dept. Fee waivers may be available for those who qualify. If you receive accommodations from CM, you may be eligible to request them for national testing. Be sure to speak about this with your counselor.

COLLEGE VISITS - Visit colleges, gain work and volunteer experience, consider summer enhancement and remedial classes, refine a list of post-secondary schools and career options.

## **SENIORS**

### **~ SEPTEMBER ~**

APPLICATIONS - Contact at least 4-6 schools for applications.

POST-SECONDARY SCHOOL VISITATIONS - Be sure to attend open houses and weekend overnights for prospective freshmen.

POST-SECONDARY REPRESENTATIVE MEETINGS - Be sure to register in the School Counseling Resources group to meet with school reps who visit CMHS.

COLLEGE TESTING - If necessary, register for the October and/or November SAT, and or ACT. Fee waivers may be available for those who qualify. If you receive accommodations from CM, you may be eligible to request them for national testing. Be sure to speak about this with your counselor.

NCAA - File NCAA Clearinghouse forms if participating in Division I or II athletics. For more information visit [www.eligibilitycenter.org](http://www.eligibilitycenter.org) or contact Mr. Mike Evans, Associate Athletic Director, (724)745-1400 ext. 5002.

SCHOLARSHIPS - Several scholarship resources can be found on the School Counseling Resources Group on Schoology. In addition, scholarship opportunities are regularly announced at the high school. Scholarships announcements are also sent to parents via an email blast. Please make sure your email address is up-to-date.

MALE STUDENTS - Must register for Selective Service on your eighteenth birthday to be eligible for federal and state financial aid.

GRADUATION PROJECT - Prepare for your presentation. A satisfactory rating is necessary to fulfill the high school graduation requirement.

## **SENIORS**

### **~ OCTOBER ~**

APPLICATIONS - Begin submitting transcript requests forms to your counselor and allow up to two weeks for processing your application. (Give small envelope with two stamps or large envelope with 3-4 stamps.) Be sure to give your teacher two weeks for

his/her letter of recommendation. (Give teacher a profile sheet and a stamped, college addressed envelope, so it can be sent by teacher.)

COLLEGE TESTING - SAT I AND SAT II, AND ACT TESTS are administered at CMHS. If necessary, register to take the December SAT I, II, and/or ACT. Fee waivers may be available for those who qualify. See your school counselor.

EARLY DECISION CANDIDATES - Be certain that everything is submitted before the deadline.

SERVICE ACADEMY REQUESTS FOR NOMINATIONS - Must be submitted to your Congressman/Senator by mid-October.

FINANCIAL AID - File FAFSA form as soon after October 1st as possible. Check with the colleges for their deadlines. Many post-secondary schools have their own financial aid form that needs to be completed in addition to the FAFSA form. The FAFSA is found at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) to file electronically. The Counseling Department hosts a financial aid event in October.

GRADUATION PROJECT - Prepare for your presentation. A satisfactory rating is necessary to fulfill the high school graduation requirement.

## **SENIORS**

### ~ NOVEMBER ~

COLLEGE APPLICATIONS - Many colleges request that applications be sent before Thanksgiving Day. Late applicants may be put on waiting lists for admissions. **DO NOT WAIT TO TAKE ADDITIONAL SATS OR ACTS BEFORE SUBMITTING YOUR APPLICATIONS.**

GRADUATION PROJECT - Prepare for your presentation. A satisfactory rating is necessary to fulfill the high school graduation requirement.

## **SENIORS**

### ~ DECEMBER ~

COLLEGE BOARD/ACT TESTING - SAT I, SAT II, and ACT are given.. Fee waivers may be available for those who qualify.

APPLICATIONS - Be sure that you have met your deadlines. Complete all January deadline applications by mid-December. If you submitted your application in October or November (on rolling admission), you should be receiving notification.

GRADUATION PROJECT - Prepare for the Spring presentation. A satisfactory rating is necessary to fulfill the high school graduation requirement.

## **SENIORS**

### ~ JANUARY ~

GRADUATION REQUIREMENTS - Graduation requirements should be verified. Order cap and gown and graduation announcements.

MID-TERM GRADES - Some colleges request first semester grades.

GRADUATION PROJECT - Prepare for the April presentation. A satisfactory rating is necessary to fulfill the high school graduation requirement.

## **SENIORS**

~ FEBRUARY, MARCH, APRIL ~

NOTIFICATIONS - Watch your mail between March 1st and April 1st for acceptance or rejection notifications from colleges. Also watch the mail for financial aid awards between April 1st and May 1st.

FINAL CHOICES - Make your final choice, and notify all schools of your intent by May 1st. Send your non-refundable deposit to your chosen school by May 1st as well.

GRADUATION PROJECT - Prepare for the presentation. A satisfactory rating is necessary to fulfill the high school graduation requirement.

FINANCIAL AID - Be sure to check on the status of your FAFSA, both at FAFSA.gov and on the college account.

## **SENIORS**

~ MAY ~

AP AND/OR FINAL EXAMS - Prepare well for all final exams. Continue to focus on your schoolwork.

SEND COLLEGE FORMS AND FEES - Housing, candidate reply, etc.

COMPLETE SENIOR FOLLOW-UP SURVEY - Notify your counselor of your school choice. Indicate receipt of Scholarships or Special Awards.

FINAL TRANSCRIPTS - Must be mailed to the school that you plan to attend. Notify the guidance office of your post- secondary choice as soon as it is confirmed.