

# Paths to Purpose



Where will your spark take you?

## **2020-21 Avon Grove HS Curriculum Planning Guide** For students and families

# AVON GROVE HIGH SCHOOL

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West Grove, PA 19390

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# P.A.T.H.S. to Purpose: Academic Information and Course Offerings

*"Learning is not attained by chance; it must be sought for with ardor and attended to with diligence."*

– Abigail Adams

# P.A.T.H.S. To Purpose

**P** →

## Preparation

Think Before You Act  
Seek Out Opportunities

**A** →

## Attitude

Respect Yourself and Others  
Stay Positive

**T** →

## Traits

Be Responsible  
Have The Courage To Do The Right Thing

**H** →

## Habits

Begin With The End In Mind  
Have High Standards But Set Attainable Goals

**S** →

## Skills

*AGHS Top Ten Skills!*



# AGHS TOP 10 SKILLS

## *Ten Ways AGHS Prepares You for the World of Work and Life*

The purpose of the Avon Grove School District is to foster a learning environment for all students to be exceptionally well prepared to succeed and lead full and meaningful lives. We want to provide our students with a solid academic foundation and the career skills needed to succeed in the future, whatever path they choose.

Understanding how our classes provide not only educational content but also the opportunity to build skills valued in the work force is critical because the state of our economy has created fierce competition for spots in post-secondary schools and programs, as well as for jobs.

Although the professional environment may seem far away, the time to prepare is now. School is full of opportunities to develop the qualities most important to employers.



*The following contains input and examples provided by Avon Grove High School students:*

## **Attention to Detail**

Paying attention to detail may seem tedious and time-consuming; however, it is well worth the effort. When you are double-checking your calculations for a math problem, carefully citing sources for a research paper, or making sure you meet all of the requirements on a rubric for an assignment, you are paying close attention to detail. Avon Grove examples include: double-checking your answers on a test, reading the directions carefully before beginning an assignment, being aware of due dates for projects and planning accordingly, and reading the AGHS Student/Parent Handbook to familiarize yourself with policies and procedures such as the test policy.

Paying attention to detail will come in handy in any workplace, whether you maintain a database, keep a log of the hours you spend with clients, or simply write emails. An engineer working on building a bridge will need to make sure all measurements are accurate, a hair dresser needs to make sure hair is cut evenly, postal workers need to make sure mail gets to the appropriate address, and a daycare worker needs to be aware of any food allergies that a child in their class may have to avoid potential exposure.

## **Calm Under Pressure**

Staying calm in a pressure-filled situation is a skill everyone needs. Figuring out how to act when spontaneously faced with a difficult situation can give even the calmest person anxiety. Learning how to deal with these situations as early on as possible is the key to staying calm under pressure and overcoming these obstacles. Avon Grove examples include: trying out/performing at the Holiday Holla, getting called on in class when you did not have your hand raised and do not know the answer, trying out for a sports team that is already established, forgetting to complete an assignment and/or study for an exam, and taking any test that is timed (such as the dreaded SAT).

Every job has the potential to put an employee in a pressure-filled situation. Journalists work with tight deadlines on a regular basis, surgeons need to make life and death decisions in seconds, a waiter may have to deal with a dissatisfied/angry customer, and if you are the boss of a company you may need to make the tough decision to lay off an employee during the holiday season.

## **Honesty**

Such a simple word, yet at times it can be a challenge to be honest. Students are presented with the opportunity to demonstrate this skill on a daily basis. If you make a mistake or choose to behave badly, do you take responsibility for your actions? If you know you can get away with something, such as cheating, do you do it or not? Avon Grove examples include: your best friend wants to copy your homework, which is a violation of the Avon Grove Academic Honor Code; you do not know the response on a test question, but you can clearly see the answer on the paper of the student who sits next to you; the cafeteria staff asks "Who threw that grape?" and you know who did it, or it was you, but you deny it; and you want to break up with your girlfriend/boyfriend, but you do not want to hurt his/her feelings.

Potential employers need to know that they can trust you with everything from credit cards to trade secrets. If you want to be a counselor, your clients will need to trust you with their personal situations. If you work in the banking or accounting industries, there may be the temptation to steal and the opportunity to get away with it. If you work in retail and someone forgets his/her credit card or walks away without his/her change, will you try to return it?

## Initiative

In the classroom environment, there are many opportunities to take initiative. Every time you are the first one to offer your help or a solution to a problem, volunteer to lead a discussion or take on a leadership role, or volunteer to demonstrate a new concept, you are taking initiative. Taking initiative is important because it allows you to develop self-advocacy skills, as well as communication skills. Avon Grove examples include: offering to take a lead role in a group project (such as being a presenter), starting up a new club or activity, communicating ahead of time with your teachers for missed work prior to a planned absence, asking for help with course material, and volunteering to demonstrate a new skill in gym class.

Employers value a confident, can-do attitude, as well as employees who come up with new ideas and chart their own progress throughout projects. In many sales jobs, employees are required to call businesses in order to obtain new clients and/or sell a product. As an aspiring chef you may have new ideas for the menu, and need to take the initiative to present your ideas to the head chef. If you are starting a landscaping business, you will need to build your client base by knocking on doors and creating flyers.

## Problem-Solving Skills

No matter how carefully you plan, it is inevitable that you will be faced with a problem. The sooner you build skills and learn strategies, the more likely you will be able to identify and resolve problems quickly and effectively, and the less likely you will fall victim to the same problem again. Every interaction you have in both your professional and personal lives is an opportunity to weigh all possible outcomes carefully and decide on your actions. Avon Grove examples include: how to handle it when your team member does not do his/her part, what to do if you are struggling in a class, and how you react when you hear that someone is spreading rumors about you or a friend.

As a working professional, you will keep solving problems, whether they are computer programming bugs or budget shortfalls. Even as you leave high school behind, you will encounter similar situations and similar conflicts. In the world of advertising, someone may try to take credit for your idea, if you work in public relations your celebrity/athlete client may routinely embarrass him/herself, technology may fail you right before an important deadline. Unfortunately, some things are out of your control. What you *can* control is your response, and that will determine your success.

## Rise to the Challenge

Learning to work through challenges will lead to much success in life. Perseverance, never giving up, is a quality that is valued in the world of work because then employers know that they can count on you to get the job done. There may be times in life when you have to let go, but the decision should come once all other avenues and resources have been exhausted. Avon Grove examples include: sticking with a class and seeking help instead of dropping either the course or the level, resolving conflict with a peer rather than giving up the relationship, and practicing harder rather than quitting the team.

Last but not least, learning to rise to the challenge will see you through the initial weeks of a new job. It will also serve you well as you advance in your working life, taking on new projects, building expertise, and branching into new areas of interest. While your grandparents may have worked for the same company their entire lives, today's workforce is mobile, with most people changing careers, not just jobs, throughout their lifetime.

## Speaking Skills

Public speaking as well as appropriate tone and language are other forms of communication skills that are highly desirable across professions. It is important to “know your audience,” and use formal language appropriate to the situation. Avon Grove examples include: addressing staff by first name or by last name without Mr./Ms./Mrs., answering “what?!” when an adult in the building asks a question (and be mindful of your tone), using foul language or derogatory terms without regard for your surroundings, and having to present “Reading Minutes” in front of your entire English class beginning freshman year.

Nothing seems to raise anxiety more than an assignment that includes a presentation to the class. Avoidance may be your instinct, but in reality, the more you practice this skill, the more comfortable you will become speaking in front of others. This is a skill that will serve you well no matter what path you may follow. For example, in the business world, you will likely have to pitch your ideas to your coworkers in a group setting, as well as to potential clients. Future teachers will stand in front of a class every day. Future doctors will present case studies to a variety of audiences. In the world of cosmetology, effective communication skills are the key to build and maintain your client base, as well as your tip jar!

## Teamwork Skills

Even if you are not wearing a jersey, you will have to work as part of a team in the majority of occupations. Teamwork skills transcend the work environment, impacting your relationships both professional and personal. By the time, you leave high school; you can be an expert in teamwork, an increasingly important skill in today's workplace. Avon Grove examples include: doing your fair share of the work and doing it well, showing up on the day that your group is supposed to present, allowing each member of the group to have a voice, recognizing that everyone can make a valuable contribution to the task at hand.

In addition to voicing your opinions, the most important aspects of teamwork are listening, responding to others, and reaching compromises. In a team setting, every member is integral to the success of the group, whether you are working in person with your team or online using a Google Document. There really is no “I” in team!

## Time Management

High school students can feel pulled in many directions between school, sports/activities, a job, and family responsibilities. Sometimes it can feel as though there is never enough time in the day to get everything done. Learning how to manage your time is an important skill because as you go through life, the type of demands on your time may change but you will still need to balance/prioritize your responsibilities. Avon Grove examples include breaking down a long-term project into smaller chunks, attending practice and preparing for an exam while making time for a friend who needs to talk, and making sure you meet deadlines for your postsecondary applications.

Learning to juggle the many demands on your time may seem overwhelming at times, but this skill is ultimately valuable since most jobs require multitasking. In the sales field, you will need to take care of current clients while attracting new ones, future teachers will have to respond to emails and phone calls and develop lesson plans for the week while teaching four classes in a row, and if you manage a restaurant, you will need to order tomorrow's produce while planning next week's menu.

## Writing Skills

In a recent survey of employers, communication topped the list of skills they look for the most. Employers have also expressed concern that with the popularity of social media and texting, the quality of written communication skills has declined. Avon Grove examples include writing "IDK" on a quiz when you do not know the answer, writing the letter "u" for "you," using "their" for "there," and other grammatical and spelling errors.

By doing your best on every research paper and lab report you write, you are building and reinforcing those skills as well as preparing yourself for a career. Before you even get the chance to interview, you will need to represent yourself in cover letters and resumes. For example, health professionals keep patient charts, researchers and artists depend on the money they collect by writing grant applications, software engineers write technical specifications, and nearly everyone writes emails to people inside and outside of their organization.

(Adapted from Collegeboard.com)

**Please note: All course descriptions in this guide contain the top three skills students will learn/use in that particular course. Thank you to our teachers for the time and effort with this project.**

# THE FIVE PATHWAY OPTIONS

## **ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS**

This pathway is designed to cultivate students' awareness, interpretation, application, and production of visual, verbal, and written work.

### Cluster Areas:

- Performing Arts (PA)
- Visual Arts (VA)
- Communication Arts (CA)

## **BUSINESS MANAGEMENT AND ADMINISTRATION**

This pathway is designed to prepare students for careers in the world of business, finance, and information services.

### Cluster Areas:

- Marketing, Sales, and Service (MS)
- Finance (F)
- Business Management (BM)

## **HEALTH SCIENCES**

This pathway is designed to cultivate students' interests in the life, physical and behavioral sciences, as well as the planning, managing, and providing of therapeutic services, diagnostic services, health information, and biochemistry research development.

### Cluster Areas:

- Science and Health (SH)
- Agriculture, Food, and Natural Resources (AFN)

## **HUMAN SERVICES**

This pathway is designed to cultivate students' interests, skills, and experience for employment in careers related to family and human needs.

### Cluster Areas:

- Counseling and Personal Care (CPC)
- Education (E)
- Law, Public Safety, and Government (PU)
- Hospitality and Tourism (HT)

## **SCIENCE, TECHNOLOGY, ENGINEERING AND MATH**

This pathway is designed to cultivate students' interests, awareness, and application to areas related to technologies necessary to design, develop, install, or maintain physical systems.

### Cluster Areas:

- Construction and Architecture (CAT)
- Information Technology (IT)
- Manufacturing (M)
- Engineering and Engineering Technology (ET)
- Transportation, Distribution, and Logistics (TDL)

# Academic, Course Selection, and Promotion/Graduation Guidelines

## CREDIT REQUIREMENTS FOR GRADUATION

A minimum of twenty-five (25) credits shall be required for graduation. The graduation requirements listed below are minimums. Students should continue to take the most challenging courses available to them. The following credits are required in specific disciplines:

Course Title	Units of Credit	Grade 9	Grade 10	Grade 11	Grade 12
English	4.0	X	X	X	X
Mathematics	4.0	X	X	X	X
Science	3.0	X	X	X	
Social Studies	3.0	X	X	X	
Health	0.5		X		
Physical Education	2.0				
Career Choices / Enrichment Electives	8.5				
Total Credit Requirement	25.0				
GRADUATION PORTFOLIO: A graduation portfolio is to be completed by students in the class of 2021 and beyond					

## PROMOTION REQUIREMENTS

**Promotion Requirements for 9th graders to become 10th graders:**

Must earn 6 credits

**Promotion Requirements for 10th graders to become 11th graders:**

Must earn 12 credits

**Promotion Requirements for 11th graders to become 12th graders:**

Must earn 18 credits

## PA KEYSTONE EXAMS

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. Beginning with the graduating class of 2022, the statewide graduation requirement will apply. Students must demonstrate proficiency on the Algebra I, Literature, and Biology Keystone Exams to graduate or fulfill one of the other pathways provided to graduate. Students will be offered multiple opportunities to take the keystones throughout their high school careers. All students must participate in the Algebra I, Literature, and Biology Keystone Exams once they complete the corresponding course.

## ADVANCED PLACEMENT/HONORS WEIGHTING EXPLANATION

Advanced Placement courses are weighted an additional 1.0 quality point. For example, an A+ earned by a student in an AP course is calculated into the grade point average as a 5.5 instead of the 4.5 earned in an unweighted course. Honors courses are weighted an additional .5 quality point. For example, an A+ earned by a student in an honors course is calculated into the grade point average as 5.0 instead of the 4.5 earned in an unweighted course.

All weighted courses are marked with an \* in the course description pages.

## GRADUATION PORTFOLIO

In order to graduate from Avon Grove High School, a student must complete a portfolio showcasing her/his learning, growth, and readiness for continuing education or employment upon graduation.

## COURSE SELECTION PROCESS

The course selection process begins in February. Students have the opportunity to review and change courses during the course selection verification process in the spring and finalize changes before the summer break. Students and families are encouraged to give serious consideration to their course choices and to use the Career Pathways section of the course selection book to help with the decision-making process. The expectation is that all students will be scheduled for 8 credits.

*If a parent/guardian disagrees with a recommended course, he or she should contact the recommending teacher to discuss the reasons for the recommendation. Parents/guardians may further address recommended courses with their child's guidance counselor.*

Students are provided with a wealth of information to help them select courses. The Guidance Department will conduct presentations to all students in grades 9-11 to help them understand the importance of the course selection process and to educate them about Career Pathways, a framework to assist them in choosing courses.

The Guidance Department does course selection verifications with all students in grades 9-11 throughout the spring. The goals of the verification process are to ensure that data has been entered correctly and to offer students an opportunity to change course choices prior to the end of the school year. Thus, since students receive multiple opportunities to discuss and review their course selection, **the last day of school in the year in which course selection takes place is the final date courses can be changed.** After that date, courses can only be changed under the following circumstances:

- Computer/data entry error
- or
- Prerequisite for the course not met/course failure

## **COURSE CHANGE POLICIES**

No lunch, teacher, or study hall changes will be allowed. If a student needs to change a lunch due to a medical issue, documentation must be provided, and the family must keep in mind that the change may affect (elective) courses because of the design of the master schedule.

## **EXPECTATIONS FOR EXTERNAL CREDIT APPROVAL**

Current Avon Grove High School students may request approval to have courses that are taken at outside accredited institutions count for original credit at Avon Grove High School (AGHS) and appear on the AGHS transcript. To qualify for this option, the requesting student must:

- Be a currently enrolled student in the Avon Grove School District and have completed grade 8 with a recommendation for promotion to grade 9,
- Request approval for the specific course prior to enrollment in the course,
- Receive approval of the course and its equivalent from AGHS,
- Pay for the desired course (if necessary),
- Not expect the course to be part of the AGSD offer of FAPE (Free and Appropriate Public Education) for a student identified with a disability, nor consider approval of the request to be such, and
- Provide all grade requirements and documentation to AGHS within sixty (60) days of completion of the course.
- Courses must be completed by June 1<sup>st</sup> of the graduating year
- Only final grades will be incorporated onto a transcript; grades during a marking period will not be listed on the report card
- Families should check with NCAA for any academic requirements that may be needed for student athletes.

Course requests for specific courses that are required for graduation and include a Pennsylvania Keystone Exam will not be accepted.

Courses taken at outside institutions that are classified as Advanced Placement will be weighted as defined in the course description handbook. All other courses will receive no weighting in the calculation of grade point average (GPA) or class rank.

# NCAA ELIGIBILITY

Division I - <http://www.ncaa.org/student-athletes/play-division-i-sports>

## DIVISION I ACADEMIC ELIGIBILITY

To be eligible to compete in NCAA sports during your first year at a Division I school, you must graduate high school and meet **ALL** the following requirements:

- Complete [16 core courses](#):
  - Four years of English
  - Three years of math (Algebra 1 or higher)
  - Two years of natural/physical science (including one year of lab science if your high school offers it)
  - One additional year of English, math or natural/physical science
  - Two years of social science
  - Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.
- Earn at least a [2.3 GPA](#) in your core courses.
- Earn an [SAT combined score or ACT sum score](#) matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

Division II - <http://www.ncaa.org/student-athletes/play-division-ii-sports>

## DIVISION II ACADEMIC ELIGIBILITY

To be eligible to compete in NCAA sports during your first year at a Division II school, you must meet academic requirements for your core courses, grade-point average (GPA) and test scores. The requirements are changing for students who enroll full-time at a Division II school after August 1, 2018.

You must graduate high school and meet **ALL** the following requirements:

- Complete [16 core courses](#):
  - Three years of English.
  - Two years of math (Algebra 1 or higher).
  - Two years of natural or physical science (including one year of lab science if your high school offers it).
  - Three additional years of English, math or natural or physical science
  - Two years of social science
  - Four additional years of English, math, natural or physical science, social science, foreign language, comparative religion or philosophy
- Earn at least a [2.2 GPA](#) in your core courses.
- Earn an [SAT combined score or ACT sum score](#) matching your core-course GPA on the Division II sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

## DIVISION III ACADEMIC ELIGIBILITY

Division III schools provide an integrated environment focusing on academic success while offering a competitive athletics environment. Division III rules minimize potential conflicts between athletics and academics and focus on regional in-season and conference play.

While Division III schools do not offer athletics scholarships, 75 percent of Division III student-athletes receive some form of merit or need-based financial aid.

If you are planning to attend a Division III school, you do not need to register with the NCAA Eligibility Center. Division III schools set their own admissions standards.

## Blended Learning

As technology availability has increased, and its application to learning has evolved, the terms “synchronous” and “asynchronous” are being associated with where and when students are learning. The traditional classroom setting is most commonly associated with “synchronous” learning, specifically meaning that students and teachers are in the same place at the same time as teaching and learning are occurring. “Asynchronous” learning has evolved in recent years to mean that students are learning at a time and space separate from their teachers, typically online, using a variety of technological tools to support their needs. In a “blended” environment, students and teachers will incorporate both modalities, with teachers providing students significant opportunities for collaboration and independent practice (asynchronous), while also scheduling regular interactions and time for support (synchronous) when identified by either the student or the teacher.

Avon Grove High School, in recognizing the future needs of our students, will allow students to request a blended variation, when available, of a traditional course option as part of a student’s master schedule. Courses labeled as “blended” options within the course handbook will still occupy one period within the existing bell schedule, and will occur during the regularly scheduled student day. As with other scheduled courses at AGHS, the availability of sections in this modality will be dependent upon student requests and teacher availability, and the request of a blended course is not a guarantee of placement in that course option. Both the blended and traditional offerings of a course will be meeting the same course outcomes and will be awarded the same credit on a student’s report card and final transcript.

When considering whether or not a blended course may be the best option for learning, a student should consider her/his strengths and goals, specifically connected to the personal traits of time management, responsibility, self-awareness, and self-advocacy. For additional information related to options and expectations for students, please seek out the department chair of the department in which you are considering a blended course, or your guidance counselor.

# CAREER & TECHNICAL EDUCATION

Avon Grove High School partners with Chester County Technical College High School (TCHS) at Pennock's Bridge in Jennersville to provide a rigorous Career & Technical Education (CTE). TCHS offers students a chance to acquire the knowledge and skills necessary to enter the work force immediately upon graduation or as preparation for postsecondary vocational or technical training. Today more than ever, students are realizing they must learn a vocation and have a marketable skill to earn a living. Increased automation and modern technology are creating a need for a different kind of employment – one involving greater and more specialized skills.

The goal of a Career & Technical Education program is to meet both the students' educational and vocational needs. In order to meet that goal, CTE schools constantly strive to:

- Prepare students with the skills and knowledge necessary for employment
- Offer a curriculum with the flexibility necessary to keep pace with the changing employment standards and needs
- Provide a program promoting an understanding of the important relationship between employer and employee
- Help develop the self-discipline necessary to work efficiently and in cooperation with others
- Encourage the development of desirable attitudes and work habits, which are needed in today's world of work

TCHS courses are individually designed using a competency-based curriculum reflecting the student's particular skill level. This allows students to proceed at their own rates, concentrating on areas they need to strengthen. The shop experience at TCHS is coordinated with AGHS to allow half-day attendance at each school. Transportation is provided between the two sites. The courses are designed to help students prepare for their career of choice. The competency-based programs allow open-entry and open-exit by students. Upon graduation, students will be provided a profile of competencies mastered. In addition, each student meeting the expected standards of performance and attendance will graduate with a "warranty" of his/her performance capabilities. If an employer is dissatisfied with the performance of a TCHS graduate, the graduate may return for additional training at no cost to the employer or the employee.

TO APPLY: Go to [www.tchspennocks.org](http://www.tchspennocks.org). See "Site Shortcuts" on the left. Click "Apply online!" If you have any questions on admissions criteria, how to apply, or programs offered, please contact the Admissions Specialist, at [admissions@cciu.org](mailto:admissions@cciu.org) or 484-237-5325. Applicants must be at least 14 years of age and entering the tenth grade or higher. Selection is based on aptitude, attitude, attendance, past achievements, readiness for entry into the desired program, and course availability. Emphasis is given to potential for achievement, interest, motivation, and likelihood of success in the student's chosen area of study.

TCHS course offerings can be found at:

<http://www.cciu.org/site/Default.aspx?PageType=1&SiteID=199&ChannelID=206&DirectoryType=6>

# DUAL ENROLLMENT

Our Dual Enrollment Program allows high school students to obtain college credits that may be transferable to both two- and four-year colleges. Dual enrollment makes it possible for juniors and seniors to have advanced standing when entering college. When students participate in dual enrollment, students will enroll for both fall and spring semesters during the school year. Students may substitute courses at Avon Grove High School by taking an approved course for Dual Enrollment credit. For instance, a student signed up for Dual Enrollment English would receive both college credit and English credit at Avon Grove High School.

To apply, students must pass a placement exam or have a qualifying SAT/ACT score and complete an application. Once all have been completed, a counselor from the college along with AGHS counselor will meet with the student to review class options and build the student's AGHS schedule.

\*For this opportunity, transportation and tuition fees are the responsibility of the family

\*\*Students are encouraged to check with their intended future college regarding their dual enrollment policies and to see if these credits will transfer.

# JOB SHADOWING

The Avon Grove Job Shadowing Experience immerses students into the world of work, where they can acquire first-hand information about job skills and careers. Students who are able to experience the workplace have realistic and tangible career options come alive for them. Job Shadowing involves student visits to a variety of career areas of interest during which time they can observe and ask questions of their Shadowing hosts. This structured worksite experience provides students with a preview of the "Real" world of work and the range of career opportunities available to them. Avon Grove High School Students will meet with their counselor to discuss interest and participation in a Job Shadowing Experience. Students who participate in a Job Shadowing experience will be excused from school (on the day (s) of the experience) but will still be expected to make up all required assignments, quizzes, projects, and tests during this time. AGHS Job Shadowing Experience Student benefits:

- Provides an up-close look at workplaces and careers
- Demonstrates the link between education and future career success
- Provides important information to shape future career decision making
- Creates new networking opportunities for future career planning
- Assists in developing a Career Action Plan for Post-Secondary goals
- Introduces students to the requirements of professions and industries to help them prepare to join the workforce of the 21st century.

# Course Overview

\*Courses shaded will not be offered during the 2020/2021 school year, but will be offered the following year.

Course Name	Number	Elective or Graduation Requirement	Weighted 1.0 or .5 quality points	When Course is offered	NCAA Approved	Blended Course Option	9	10	11	12
ALLIED HEALTH HON	210008H	ELEC	.5	Yr.						x
ART- WEARABLE ART	210932	ELEC		Sem.			x	x	x	x
ART-3D ART	210920	ELEC		Sem.			x	x	x	x
ART-ADOBE ILLUSTRATOR	210925	ELEC		Sem.			x	x	x	x
ART-ALT. PROC. IN DKRM PHOTO	210912	ELEC		Sem.					x	x
ART-AP ART HISTORY	210950	ELEC	1	Yr.					x	x
ART-CERAMICS	210930	ELEC		Sem.			x	x	x	x
ART-CERAMICS II	210933	ELEC		Sem.				x	x	x
ART-D & C JEWELRY	210931	ELEC		Sem.				x	x	x
ART-DIGITAL PHOTO	210911	ELEC		Sem.					x	x
ART-DRAWING I	210901	ELEC		Sem.				x	x	x
ART-DRAWING II	210902	ELEC		Sem.				x	x	x
ART-GRAPHIC DESIGN I	210921	ELEC		Sem.			x	x	x	x
ART-GRAPHIC DESIGN II	210922	ELEC		Sem.				x	x	x
ART-INTRO TO PHOTO	210910	ELEC		Sem.					x	x
ART-INTRO TO STUDIO ARTS	210900	ELEC		Sem.			x	x	x	x
ART-MACROMEDIA ANIMATE	210923	ELEC		Sem.				x	x	x
ART-MIXED MEDIA	210924	ELEC		Sem.			x	x	x	x
ART-PAINTING	210903	ELEC		Sem.				x	x	x
ART-PAINTING II	210904	ELEC		Sem.				x	x	x
ART-PORTFOLIO PREP	210960	ELEC		Sem.					x	x
ART-PRINTMAKING	210905	ELEC		Sem.			x	x	x	x
ART-VISUAL STORYTELLING, CART. & ST. BD.	210926	ELEC		Sem.				x	x	x
BUS-ACCT	210723	ELEC		Yr.			x	x	x	x
BUS-ADV ACCT	210724	ELEC		Yr.				x	x	x
BUS-COST ACCT	210736	ELEC		Sem.				x	x	x
BUS-AP COMPUTER SCIENCE PRINCIPLES	210714	ELEC	1	Yr.				x	x	x
BUS-AP COMPUTER SCIENCE A	210715	ELEC	1	Yr.					x	x
BUS-BUS PRIN & MGT	210728	ELEC		Sem.				x	x	x
BUS-COMP PROG: JAVA	210712	ELEC		Sem.				x	x	x
BUS-INTRO TO BUS	210720	ELEC		Sem.			x	x	x	x
BUS-INTRO TO COMPUTER SC.	210700	ELEC		Sem.			x	x	x	x
BUS-MICROSOFT WORD, EXCEL, PPT & ACCESS	210710	ELEC		Sem			x	x	x	x
BUS-MRKTG	210726	ELEC		Sem.		B	x	x	x	x
BUS-PERSONAL FINANCE	210725	ELEC		Sem.			x	x	x	x

BUS-MICROSOFT ADVANCED OFFICE	210711	ELEC		Sem.			x	x	x	x
BUS-WEB PAGE DESIGN I	210708	ELEC		Sem.			x	x	x	x
ENG - ART OF PERSUASION	210138	BOTH		Sem.	x				x	x
ENG - COLL WRITING	210137	BOTH		Sem.	x	B			x	x
ENG – CONTEMPORARY LITERATURE	210167	ELEC		Sem.	x				x	x
ENG - FILM AS LIT	210136	ELEC		Sem.				x	x	x
ENG-AP ENG LANG & COMP	210150	GRAD. REQ.	1	Yr.	x				x	x
ENG-AP ENG LIT & COMP	210151	GRAD. REQ.	1	Yr.	x				x	x
ENG-COLLEGE PREP ENG 10	210121	GRAD. REQ.		Yr.	x			x		
ENG-COLLEGE PREP ENG 11	210131	GRAD. REQ.		Yr.	x				x	
ENG-COLLEGE PREP ENG 12	210141	GRAD. REQ.		Yr.	x					x
ENG-COLLEGE PREP ENG 9	210111	GRAD. REQ.		Yr.	x	B	x			
ENG-CREAT WRIT & POETRY	210162	ELEC		Sem.	x			x	x	x
ENG-ENGLISH 10	210172	GRAD. REQ.		Yr.				x		
ENG-ENGLISH 11	210182	GRAD. REQ.		Yr.					x	
ENG-ENGLISH 12	210192	GRAD. REQ.		Yr.						x
ENG-ENGLISH 9	210102	GRAD. REQ.		Yr.			x			
ENG-HON ENG 10	210120	GRAD. REQ.	0.5	Yr.	x			x		
ENG-HON ENG 11	210130	GRAD. REQ.	0.5	Yr.	x				x	
ENG-HON ENG 12	210140	GRAD. REQ.	0.5	Yr.	x					x
ENG-HON ENG 9	210110	GRAD. REQ.	0.5	Yr.	x		x			
ENG-JOURN I	210160	ELEC		Sem.	x		x	x	x	x
ENG-JOURN II	210161	ELEC		Yr.				x	x	x
ENG-JOURN II.5	210166	ELEC		Sem.				x	x	x
FCS-BAKING	211020	ELEC	0.5	Sem.			x	x	x	x
FCS-CHILD DEVELOPMENT	211004	ELEC	0.5	Sem.				x	x	x
FCS-ENC WITH FOOD	211021	ELEC	0.5	Sem.			x	x	x	x
FCS-FOOD & CULTURES	211023	ELEC	0.5	Sem.				x	x	x
FCS-HOUSING & DESIGN	211005	ELEC	0.5	Sem.			x	x	x	x
FCS-LIFE & IND	211001	ELEC	0.5	Sem.					x	x
FCS-LIFE & SCHOOL	211000	ELEC	0.5	Sem.			x	x		
FCS-SPORTS NUTRI & WELL	211022	ELEC	0.5	Sem.				x	x	x
FCS-TEXT & CLOTH I	211006	ELEC	0.5	Sem.			x	x	x	x
FCS-TEXT & CLOTH II	211007	ELEC	0.5	Sem.			x	x	x	x
FCS-TEXT & CLOTH II	211008	ELEC	0.5	Sem.				x	x	x
HOMELAND SECURITY & PROTECTIVE SERVICES	219020	ELEC		Yr.				x	x	x
MATH- COLLEGE PREP ALGEBRA II	210231	GRAD. REQ.		Yr.	x			x	x	
MATH-ALGEBRA I	210200	GRAD. REQ.		Yr.	x		x	x		
MATH-ALGEBRA II	210232	GRAD. REQ.		Yr.				x	x	x
MATH-AP CALC AB	210250	GRAD. REQ.	1	Yr.	x				x	x
MATH-AP CALC BC	210252	GRAD. REQ.	1	Yr.	x					x
MATH-AP STAT	210251	GRAD. REQ.	1	Yr.	x				x	x

MATH-APPS & CONCEPTS	210262	GRAD. REQ.		Yr.					x	x
MATH-COLLEGE PREP ALGEBRA I	210211	GRAD. REQ.		Yr.	x		x	x		
MATH-COLLEGE PREP CALCULUS	210261	GRAD. REQ.		Yr.	x				x	x
MATH-COLLEGE PREP GEOMETRY	210221	GRAD. REQ.		Yr.	x	B	x	x		
MATH-COLLEGE PREP STATISTICS	210260	GRAD. REQ.		Yr.	x					x
MATH-COLLEGE PREP TRIG/PRECALC	210241	GRAD. REQ.		Yr.	x				x	x
MATH-SHELTERED MATH	210214	GRAD. REQ.		Sem.			x	x	x	x
MATH-SHELTERED MATH	210215	GRAD. REQ.		Sem.			x	x	x	x
MATH-GEOMETRY	210222	GRAD. REQ.		Yr.				x	x	x
MATH-HON ALGEBRA II	210230	GRAD. REQ.	0.5	Yr.	x		x	x	x	
MATH-HON GEOMETRY	210220	GRAD. REQ.	0.5	Yr.	x		x	x		
MATH-HON TRIG/PRECALC	210240	GRAD. REQ.	0.5	Yr.	x			x	x	x
MATH-TRIG/PRECALC	210242	GRAD. REQ.		Yr.					x	x
MUS-AP MUSIC THEORY	212033	ELEC	1	Yr.				x	x	x
MUS-AVON GROVE CHORALE	212021	ELEC		Yr.			x	x	x	x
MUS-BEL CANTO	212022	ELEC		Yr.			x	x		
MUS-CONCERT BAND	212000	ELEC		Yr.			x	x	x	x
MUS-CONCERT CHOIR	212020	ELEC		Yr.			x	x	x	x
MUS-GUITAR	212063	ELEC		Sem.			x	x	x	x
MUS-MUSIC THEORY I	212031	ELEC		Sem.			x	x	x	x
MUS-PIANO FUNDAMENTALS	212030	ELEC		Sem.			x	x	x	x
MUS-STRING ORCHESTRA	212040	ELEC		Yr.			x	x	x	x
MUS-WIND ENSEMBLE	212001	ELEC		Yr.			x	x	x	x
PE-ADP PE	210662	GRAD. REQ.		Sem.			x	x	x	x
PE-HEALTH ED	210625	GRAD. REQ.		Sem.				x	x	x
PE-PE 1	210612	GRAD. REQ.		Sem.			x	x		
PE-PE 2	210622	GRAD. REQ.		Sem.			x	x	x	
PE-PE 3	210632	GRAD. REQ.		Sem.				x	x	x
PE-PE 4	210642	GRAD. REQ.		Sem.					x	x
SCI-AP BIOLOGY	210350	BOTH	1	Yr.	x				x	x
SCI-AP CHEMISTRY	210351	BOTH	1	Yr.	x				x	x
SCI-AP ENVIRO SCIENCE	210355	BOTH	1	Yr.	x				x	x
SCI-AP PHYSICS 1 & 2	210352	BOTH	1	Yr.	x				x	x
SCI-AP PHYSICS C: MECH ELEC & MAG	210353	BOTH	1	Yr.	x				x	x
SCI-APPLIED PHYSICS	210342	BOTH		Yr.				x	x	x
SCI-BIOLOGY	210323	GRAD. REQ.		Yr.				x		
SCI-CHEMISTRY	210332	GRAD. REQ.		Yr.				x	x	x
SCI-COLLEGE PREP ANAT & PHYS	210361	BOTH		Yr.	x				x	x
SCI-COLLEGE PREP BIOLOGY	210321	GRAD. REQ.		Yr.	x		x	x		
SCI-COLLEGE PREP CHEMISTRY	210331	GRAD. REQ.		Yr.	x	B		x	x	x
SCI-COLLEGE PREP CUR SCI/TECH	210362	BOTH		Yr.	x					x
SCI-COLLEGE PREP INTEGRATED SCIENCE	210311	GRAD. REQ.		Yr.	x		x			

SCI-COLLEGE PREP ORGANIC CHEMISTRY	210360	BOTH		Yr.	x				x	x
SCI-COLLEGE PREP PHYSICS	210341	BOTH		Yr.	x			x	x	x
SCI-EARTH/SP SCIENCE	210363	GRAD. REQ.		Yr.	x				x	x
SCI-HON BIOLOGY	210320	GRAD. REQ.	0.5	Yr.	x		x	x		
SCI-HON CHEMISTRY	210330	GRAD. REQ.	0.5	Yr.	x			x	x	
SCI-HON PHYSICS	210340	BOTH	0.5	Yr.	x			x	x	x
SCI-INTEGRATED SCIENCE	210312	GRAD. REQ.		Yr.			x			
SCI-SHELTERED SCIENCE PART I	210313	GRAD. REQ.		Sem.			x	x	x	x
SCI-SHELTERED SCIENCE PART II	210314	GRAD. REQ.		Sem.			x	x	x	x
SOCIETY SKILLS	214446	ELEC		Yr.			x	x	x	x
SS- UNITED STATES HISTORY	210414	GRAD. REQ.		Sem.			x	x	x	x
SS- UNITED STATES HISTORY	210415	GRAD. REQ.		Sem.			x	x	x	x
SS-20TH CENTURY US MILITARY HISTORY	210471	ELEC		Sem..	x				x	x
SS-AMERICAN HISTORY THROUGH FILM	210470	ELEC		Sem.			x	x	x	x
SS-AP ECON	210455	GRAD. REQ.	1	Yr.	x				x	x
SS-AP EUR HISTORY	210450	GRAD. REQ.	1	Yr.	x				x	x
SS-AP HUMAN GEOGRAPHY	210456	ELEC	1	Yr.	x		x	x		
SS-AP MACRO ECON	210453	GRAD. REQ.	1	Yr.					x	x
SS-AP PSYCH	210454	ELEC	1	Yr.	x	B			x	x
SS-AP U.S. Gov. & Politics	210433	GRAD. REQ.	1	Yr.	x				x	x
SS-AP U.S. HISTORY	210452	GRAD. REQ.	1	Yr.	x				x	x
SS-AP WORLD HISTORY	210451	GRAD. REQ.	1	Yr.	x			x		
SS-COLLEGE PREP GOV/ECON	210431	GRAD. REQ.		yr.	x				x	x
SS-STREET LAW	210462	ELEC		Sem.	x					x
SS-COLLEGE PREP UNITED STATES HISTORY	210411	GRAD. REQ.		Yr.	x	B	x			
SS-COLLEGE PREP WORLD HISTORY	210421	GRAD. REQ.		Yr.	x			x		
SS-GOV/ECON	210432	GRAD. REQ.		Yr.	x				x	
SS-GREEK & ROMAN HISTORY	210472	ELEC		Sem.	x			x	x	x
SS-HOLOCAUST & GENOCIDE STUDIES	210473	ELEC		Sem.	x		x	x	x	x
SS-HON UNITED STATES HISTORY	210410	SS	0.5	Yr.	x	B	x			
SS-HON WORLD HISTORY	210420	GRAD. REQ.	0.5	Yr.	x			x		
SS-PSYCHOLOGY	210461	ELEC		Yr.	x				x	x
SS-SOCIOLOGY	210474	ELEC		Sem.					x	x
SS-UNITED STATES HISTORY	210412	GRAD. REQ.		Yr.	x		x			
SS-WORLD HISTORY	210422	GRAD. REQ.		Yr.				x		
TCHS-PM 2.0	219006	ELEC		Yr.				x	x	x
TCHS-PM 2.5	219007	ELEC		Yr.				x	x	x
TCHS-PM 3.0	219008	ELEC		Yr.					x	x
TCHS-PM 3.5	219009	ELEC		Yr.					x	x
TCHS-PM 4.0	219010	ELEC		Yr.						x
TEACHER LEADERSHIP ACADEMY	210009	ELEC		Yr.						x
TECH-ADV METAL TECH	210831	ELEC		Sem.			x	x	x	x

TECH-ADV METAL TECH	210832	ELEC		Sem.			x	x	x	x
TECH-ADV. NON-METALIC MATERIALS	210821	ELEC		Sem.			x	x	x	x
TECH-ADV. NON-METALIC MATERIALS	210822	ELEC		Sem.			x	x	x	x
TECH-ARCHITECTURAL VISUAL CAD	210802	ELEC		Sem.			x	x	x	x
TECH-AUDIO VIDEO ENGINEERING	210804	ELEC		Sem.			x	x	x	x
TECH-AUDIO/VIDEO PROD I	210803	ELEC		Sem.			x	x	x	x
TECH-AUDIO/VIDEO PRODUCTION II	210805	ELEC		Sem.		B	x	x	x	x
TECH-BAS METAL TECH	210830	ELEC		Sem.			x	x	x	x
TECH-COMP ENGINEERING	210840	ELEC		Sem.			x	x	x	x
TECH-COMPUTER GAME DESIGN I	210842	ELEC		Sem.			x	x	x	x
TECH-COMPUTER GAME DESIGN II	210843	ELEC		Sem.			x	x	x	x
TECH-ENGINEERING VISUAL CAD	210801	ELEC		Sem.			x	x	x	x
TECH-HOME PLAN & MAINT	210824	ELEC		Sem.			x	x	x	x
TECH-INTRO TO CAD	210800	ELEC		Sem.			x	x	x	x
TECH-INTRO TO NON-METALIC MAT.	210820	ELEC		Sem.			x	x	x	x
TECH-INTRO. TO AGRICULTURE	210808	ELEC		Sem.			x	x	x	x
TECH-PRODUCTION TECH	210823	ELEC		Sem.			x	x	x	x
TECH-ROBOTICS ENGINEERING	210841	ELEC		Sem.			x	x	x	x
TECH-AVIATION PRINCIPLES AND FAA 107 DRONE CERTIFICATION	210844	ELEC		Sem.			x	x	x	x
WLAN-AP FRENCH	210551	ELEC	1	Yr.	x				x	x
WLAN-AP SPANISH	210550	ELEC	1	Yr.	x				x	x
WLAN-AP SPANISH LITERATURE & CULTURE	210552	ELEC	1	Yr.	x				x	x
WLAN-FRENCH I	210521	ELEC		Yr.	x		x	x	x	x
WLAN-FRENCH II	210522	ELEC		Yr.	x		x	x	x	x
WLAN-FRENCH III	210523	ELEC		Yr.	x			x	x	x
WLAN-FRENCH IV HONORS	210525	ELEC	0.5	Yr.	x				x	x
WLAN-GERMAN I	210531	ELEC		Yr.	x		x	x	x	x
WLAN-GERMAN II	210532	ELEC		Yr.	x			x	x	x
WLAN-GERMAN III	210533	ELEC		Yr.	x				x	x
WLAN-GERMAN IV HONORS	210535	ELEC	0.5	Yr.	x		B			x
WLAN-ITALIAN I	210541	ELEC		Yr.	x		x	x	x	x
WLAN-ITALIAN II	210542	ELEC		Yr.	x			x	x	x
WLAN-ITALIAN III	210543	ELEC		Yr.	x				x	x
WLAN-ITALIAN IV HONORS	210545	ELEC	0.5	Yr.	x					x
WLAN-SPANISH FOR NATIVE SPEAKERS I	210561	ELEC		Yr.	x		x	x	x	x
WLAN-SPANISH FOR NATIVE SPEAKERS II	210562	ELEC		Yr.	x			x	x	x
WLAN-SPANISH I	210511	ELEC		Yr.	x		x	x	x	x
WLAN-SPANISH II	210512	ELEC		Yr.	x		x	x	x	x
WLAN-SPANISH III	210513	ELEC		Yr.	x			x	x	x
WLAN-SPANISH IV HONORS	210515	ELEC	0.5	Yr.	x			x	x	x

# ENGLISH

All English classes emphasize thinking skills through experiences in reading, writing, speaking, and listening. Strategies in contextual analysis, grammar study, vocabulary, composition, and research are integral to the preparation of students for the working world; therefore, English classes intensify in depth and breadth as the students move through the four grades

## **210110 \*HONORS ENGLISH 9**

Year                    1.0 Credit

**Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

*Prerequisite: Students entering this course must have successfully completed 8th grade English with an A and have a positive recommendation from their 8th grade teacher. CDT performance will also be considered. Each student in the course should exhibit a curious, inquisitive mind and be a diligent, consistent worker. Additionally, students are expected to demonstrate above-average self-motivation, organizational skills, and academic maturity.*

This ninth-grade English course is designed to meet the needs of freshmen students demonstrating exceptional skill and interest in English. This course is an in-depth study of various genres of literature including novellas, short stories, memoirs, Shakespearean drama, epics, mythology, and poetry. Extensive independent reading, of high quality and academically mature literature, is required. This course also touches upon research skills, oral presentations, habits of intellectual discussion, fluent and well-developed writing, editing for style and grammatical conventions, the writing process, and some creative work. Students complete content-related summer reading and written responses to prepare for the course. Students work at a rigorous pace to

meet the demands of an Honors level Pennsylvania Core curriculum and adequately prepare for later Honors or AP work.

## **210111 COLLEGE PREP ENGLISH 9**

### **210111B COLLEGE PREP ENGLISH 9** (Blended Option)

Year                    1.0 credit

**Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

This course is a broad-based course focusing on a detailed analysis of literary genres such as short stories, novels, poetry, drama, and essays; giving a variety of oral presentations; and strengthening research skills. Emphasis is also placed on improving vocabulary and grammar usage, and refining written expression. Students enrolled in this course will enjoy an intense, rigorous pace and will be expected to regularly complete outside reading and engage in self-initiated and frequent class participation. The foundation for the course content is the Pennsylvania Core standards. Students complete content-related summer reading and written responses to prepare for the course.

## **210102 ENGLISH 9**

Year                    1.0 credit

**Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

The foundation for the course content is the Pennsylvania Core standards. The focus of this course is on comprehension of short stories, novels, poetry, personal narratives, and drama; improving research skills; and giving oral presentations. Emphasis is placed on improving vocabulary and grammar usage, and refining written expression. Outside-of-class assignments and involved class discussions are a regular part of the course. Students complete content-related summer reading and written responses to prepare for the course.

### **210120 \*HONORS ENGLISH 10**

Year 1.0 credit

#### **Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

*Prerequisite: Students entering this course must have successfully completed English 110 with an average grade of 85% or higher or successfully completed English 111 with an average grade of 94% or higher, and a recommendation from the student's current English teacher. CDT performance will also be considered.* This course challenges students to develop their skills in literary analysis and the mastery of language arts through in-depth discussion and writing, as well as independent reading. Emphasis is placed on improving vocabulary and grammar usage, and refining written expression. This course is an in-depth study of various genres of literature including novels, short stories, memoirs, Shakespearean drama, epics, mythology, and poetry. Extensive independent reading, of high quality and academically mature literature, is required. This course also focuses upon research skills, oral presentations, and habits of intellectual discussion. Students complete content-related summer reading to prepare for the course, based on Pennsylvania Core standards.

### **210121 COLLEGE PREP ENGLISH 10**

Year 1.0 credit

#### **Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

This course focuses on the analysis of literary themes, basic literary criticism, book reviews from an assigned list, research paper skills, and presentation skills. Emphasis is placed on improving vocabulary and grammar usage, and refining written expression. The foundation for the course content is the Pennsylvania Core standards. Students who enroll in this course will enjoy an intense, rigorous pace, and will be expected to regularly complete outside reading and engage in self-initiated and frequent class

participation. Students complete content-related summer reading and written responses to prepare for the course.

### **210172 ENGLISH 10**

Year 1.0 credit

#### **Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

This course focuses on developmental reading of novels, short stories, poetry, essays, and drama; research paper skills; informative speaking/presentation; and self-selected, teacher-approved book reviews. Out-of-class assignments and involved class discussions are a regular part of the course. Emphasis is placed on improving vocabulary and grammar usage and refining written expression. The foundation for the course content is the Pennsylvania Core standards. Students complete content-related summer reading and written responses to prepare for the course.

### **210130 \*HONORS ENGLISH 11**

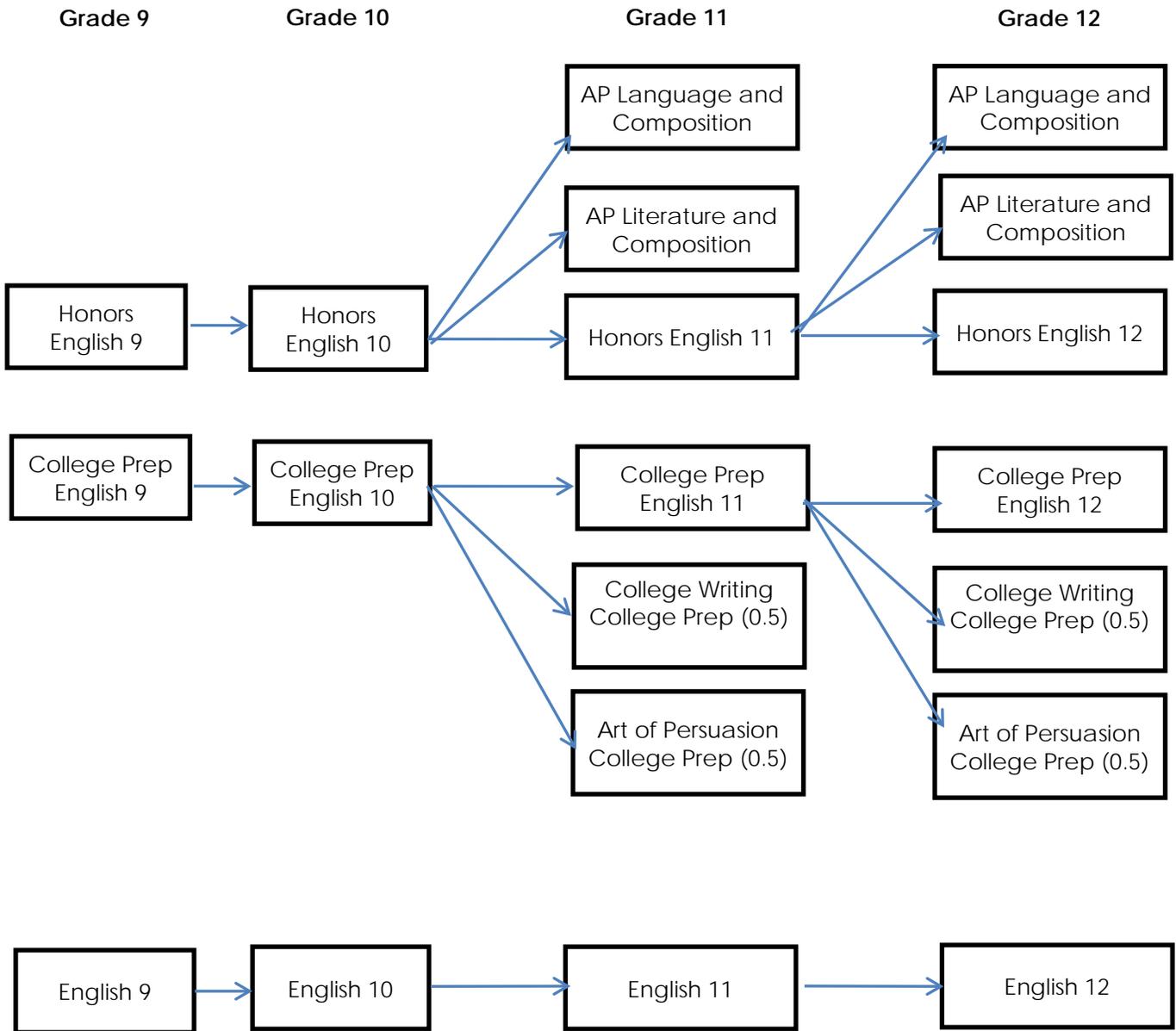
Year 1.0 credit

#### **Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

*Prerequisite: Students entering this course must have successfully completed English 120 with an average grade of 85% or higher or successfully completed English 121 with an average grade of 94% or higher, and a recommendation from the student's current English teacher. CDT performance and AP Potential will also be considered.*

This course challenges students to develop their skills in literary analysis and the mastery of language arts through in-depth discussion and writing, as well as independent reading. Emphasis is placed on improving vocabulary and refining written expression. Students complete content-related summer reading to prepare for the course, based on Pennsylvania Core standards.

## English Sequence



*Creative Writing, Contemporary Literature, Film as Literature and Journalism I, II, & III (0.5 and full year) courses available as electives and do NOT satisfy the 4-year English requirement.*

### 210131 COLLEGE PREP ENGLISH 11

Year 1.0 credit

#### Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills

This course focuses on a survey of literature, literary criticism, book reviews from an assigned list, research culminating in a literary research paper, and persuasive speaking/presentation. Emphasis is placed on improving vocabulary and grammar usage, and refining written expression. The foundation for the course content is the Pennsylvania Core standards. Students who enroll in this course will enjoy frequent and lively class participation. Students complete content-related summer reading and written responses to prepare for the course.

### 210137 COLLEGE WRITING

#### 210137B COLLEGE WRITING (Blended Option)

Semester 0.5 credit 11, 12

*This course must be taken with **The Art of Persuasion 210138** if taken for required graduation credit in place of any English 11 or English 12 course.*

#### Top 3 Skills: Writing Skills, Attention to Detail, Time Management

**Career Pathway:** Arts A/V Technology and Communications  
**Career Cluster:** Communication Arts

This course is designed for the college-bound student. The skills and strategies associated with the coherent and professional expression of ideas and concepts is critical for students and their futures in post-secondary education.

Expanding upon these concepts in this course will better prepare those who are pursuing educational or professional options that require enhanced skills in these areas.

This course incorporates reading, research, and critical thinking to develop each student's ability to express ideas clearly and effectively in writing and to read with perception and accuracy.

### 210138 THE ART OF PERSUASION

Semester 0.5 credit 11, 12

*This course must be taken with **College Writing 210137** if taken for required graduation credit in place of any English 11 or English 12 course.*

#### Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills

**Career Pathway:** Arts A/V Technology and Communications  
**Career Cluster:** Communication Arts

This course is designed for the college-bound student. This course aims to enhance critical thinking, analysis, writing, and speaking skills through the exploration of argument and persuasive techniques in informational texts and multi-media formats. Students will be able to formulate ideas and concepts for persuasion, critically evaluate the arguments of others, and articulate ideas to others (written or orally) to inspire action or better inform their own actions.

### 210182 ENGLISH 11

Year 1.0 credit

#### Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills

This is a course focusing on a survey of literature, research, persuasive speaking/presentation, and book reviews from an assigned list. Out-of-class assignments and involved class discussions are a regular part of the course. Emphasis is placed on improving vocabulary and grammar usage, and refining written expression. The foundation for the course content is the Pennsylvania Core standards. Students complete content-related summer reading and written responses to prepare for the course.

### 210140 \*HONORS ENGLISH 12

Year 1.0 credit

#### Top 3 Skills: Writing Skills, Speaking Skills, Rising to the Challenge

*Prerequisite: Students entering this course must have successfully completed English 130 with an average grade of 85% or higher or successfully completed English 131 with an average grade of 94% or higher, and a recommendation from the student's current English teacher. CDT performance and AP Potential will also be considered.*

This course focuses on in-depth analysis of literature as well as a study of the English

language. It challenges students to develop their skills in literary analysis and critique through in-depth discussion and writing as well as independent reading. Emphasis is placed on improving vocabulary and grammar usage, and refining written expression. Qualified students are expected to contribute meaningfully to class discussion and to produce writing samples which indicate an expertise in standard written English. Students complete content-related summer reading to prepare for the course, based on Pennsylvania Core standards.

### **210141 COLLEGE PREP ENGLISH 12**

Year 1.0 credit

#### **Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

This course focuses on the survey and analysis of literature, reading comprehension, literary criticism, presentation techniques, the reading of several novels outside of class, daily class discussion, and formal and informal writing for a variety of audiences and purposes. Emphasis is placed on improving vocabulary and grammar usage, and refining written expression. The foundation for the course content is the Pennsylvania Core standards. Students complete content-related summer reading and written responses to prepare for the course.

### **210192 ENGLISH 12**

Year 1.0 credit

#### **Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

This course focuses on writing for a variety of audiences and purposes, oral presentations, literary research, critical thinking about and response to literature, and book reviews. Out-of-class assignments and involved class discussions are a regular part of the course. Emphasis is placed on improving vocabulary and grammar usage, and refining written. The foundation for the course content is the Pennsylvania Core

standards. Students complete content-related summer reading and written responses to prepare for the course.

### **210150 \*AP LANGUAGE AND COMPOSITION**

Year 1.0 credit 11, 12

#### **Top 3 Skills: Writing Skills, Rising to the Challenge, Problem-Solving Skills**

*Prerequisite: Students entering this course must have successfully completed English 120 with an average grade of 85% or higher or successfully completed English 121 with an average grade of 94% or higher. Acceptance into this course is based on a recommendation from the student's current English teacher, CDT performance and AP Potential.*

This course prepares students to take the AP Language and Composition Exam and to read, write, and respond to analysis and argument essays on the exam. AP Language and Composition focuses on rhetoric as a persuasive tool and about the dynamic relationship of writer, context, audience, and argument. The course focuses primarily on the study of non-fiction and various kinds of persuasive essays on literary topics. All areas of study will prepare students for AP and college reading and writing. Students will complete media studies and a research paper project. They will read, study, analyze, and discuss prose from different periods written for a variety of purposes and writing that uses a variety of conventions. Students will write connected pieces written for different audiences. They will also study rhetorical terms and modes from Aristotle to present. This course is designed to meet the needs of college-bound juniors interested in taking AP Literature in their senior year. Students will complete content-related summer reading and writing assignments to prepare for the course.

## 210151 \*AP ENGLISH LITERATURE AND COMPOSITION

Year 1.0 credit 11, 12

### Top 3 Skills: Writing Skills, Speaking Skills, Rising to the Challenge

*Prerequisite: Students entering this course must have successfully completed English 150 with an average grade of 84% or higher or successfully completed English 130 with an average grade of 95% or higher. Acceptance into this course will be based on a recommendation from the student's current English teacher, CDT performance and College Board AP Potential. (Students in English 131 can be considered on a case-by-case basis.)*

This course includes an intensive study of a balanced selection of classic and contemporary works of poetry, drama, and fiction. Students will read deliberately and thoroughly, taking time to understand each work's complexity and absorb its richness of meaning, and also to analyze how that meaning is conveyed through authorial techniques. Assessments will be predominantly based on analytical writing skills. Qualified students are those who respond willingly and appropriately to all assignments and instruction, who contribute regularly and meaningfully to class discussions, who produce writing samples that indicate an expertise in standard written English, and who demonstrate a sincere interest in literature. The reading and writing objectives for this course are aligned with those of The College Board; the course focus will be preparing for the AP Literature and Composition exam as well as preparing for analytical college writing. Students complete content-related summer reading and writing to prepare for the course.

## English Electives

### 210167 CONTEMPORARY LITERATURE

Semester 0.5 credit 11, 12

### Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Communication Arts**

*Prerequisite: Successful completion of 9<sup>th</sup> and 10<sup>th</sup> grade English*

This course is designed for the college-bound student. The course will explore contemporary fiction to foster discussion and writing about the evolution of literary techniques and approaches, common modern motifs and themes, and the cultural and historical context of selected pieces. Readings will represent a diversity of literary voices, and writing assignments will continue the development of writing and argument skills.

Most colleges and universities offer courses in contemporary writers, and this course would prepare students for the expectations and demands of such an offering, as well as intrigue those students who enjoy reading and discussing literature.

### 210162 CREATIVE WRITING AND POETRY

Semester 0.5 credit 11, 12

### Top 3 Skills: Writing Skills, Initiative, Attention to Detail

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Communication Arts**

*Prerequisite: A good command of written English and recommendation of current English teacher.*

What inspires you? Explore your inspirations and express yourself through writing in Creative Writing and Poetry. This course is designed for students who enjoy reading and writing both short fiction and poetry, and who have an intrinsic motivation to develop their skill set in writing. The creative writing aspect of the course primarily focuses on composing works of short fiction (or developing longer works if

desired) through a variety of exercises, prompts, free writes, and process-developed pieces that will be work-shopped with peers. We will also read authors' works and revisit the question, "Where do stories come from?" The poetry component is geared toward demystifying the poetry we read, emulating styles of poets you enjoy, and compiling a poetry collection that displays a range of poetic forms, content, and voices. Course Text(s): Stephen King's *On Writing*; Bedford *Intro to Literature* 6<sup>th</sup> Ed.

### **210136 FILM AS LITERATURE**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Writing Skills, Speaking Skills, Problem-Solving Skills**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Communication Arts**

Prerequisite: Successful completion of 9<sup>th</sup> and 10<sup>th</sup> grade English

This course is designed for the college-bound student. Students will analyze movies for rhetorical devices, consider dramatic and cinematic aspects of the film as well as the language of screenwriters, directors, and producers, and use these skills to write in an analytical cinematic lens. The design for this class provides students opportunities to discuss and analyze the finer points of the filmmakers' decisions and "read" movies as they would read literature and informational texts and analyze the "text" of the film to evaluate and interpret its message.

### **210160 JOURNALISM I**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Writing Skills, Teamwork Skills, Calm Under Pressure**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Communication Arts**

Prerequisite: English grade of B or better and recommendation of current English teacher.

*This is a writing intensive course and students should have a strong command of the English language.*

This course is designed to meet the needs of students interested in journalism as a career. While not a course designed to develop creative writing abilities, it is a course tailored to hone technical writing abilities. Students will learn about what constitutes news according to different types of media, the history of journalism, journalism law and ethics, layout, news and feature writing, and editorials. Students will be exposed to various career opportunities in the field of journalism and will practice peer editing. The course demands an aptitude to write clearly, effectively, and with few mechanical errors. Qualified students will also have the opportunity of performing interviews outside of class.

### **210161 JOURNALISM II**

Year 1.0 credit 10, 11, 12

### **210166 JOURNALISM II**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Writing Skills, Teamwork Skills, Initiative**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Communication Arts**

Prerequisite: *Journalism I – Overall average of B or better and recommendation of current English teacher.*

This course is a continuation of Journalism I. In addition to providing direct student involvement through the production of a school newspaper, the course also focuses on media law and broadcast journalism (radio and television). Students in this course will be required to meet strict deadlines, work in the field, use digital technology, and work with class members to produce publications and broadcasts.

# MATHEMATICS

We believe all students will be continuously challenged and engaged in mathematical thinking and practices. A minimum of four credits in mathematics is required to graduate, three of which must be earned at the high school.

## Calculator Philosophy

Calculators are used in all mathematics classes and should be supplied by the student. The math department uses Texas Instruments TI-83+ or TI-84+ in the classroom.

### 210200 ALGEBRA I

YEAR 1.0 credit 9

#### Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management

Content extends students' knowledge of mathematics established in previous grades. Content focuses on linear functions and algebraic properties, descriptive statistics, and explores exponential functions. This course focuses on an in-depth analysis of core content and practices to explore advanced topics. Calculator: Graphing or Scientific.

### 210211 COLLEGE PREP ALGEBRA I

Year 1.0 credit 9

#### Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management

*Prerequisite: At least a C in Core 8 and teacher recommendation.*

Content extends students' knowledge on mathematics established in previous grades. Content focuses on linear and quadratic families of functions, descriptive statistics, and explores exponential functions. This course focuses on an in-depth analysis of core content and practices to explore advanced topics. Calculator: Graphing or Scientific.

### 210220 \*HONORS GEOMETRY

Year 1.0 credit 9

#### Top 3 Skills: Problem-Solving Skills, Attention to Detail, Writing Skills

*Prerequisite: At least an A in College Prep Algebra I and teacher recommendation.*

Content extends students' knowledge of similarity and congruence. Students will explore more complex geometric concepts and relationships including, but not limited to, formal mathematical arguments, polygons, the coordinate system, right triangle, trigonometry, circles and probability. This course focuses on in-depth analysis and extension of core content and practices to master advanced topics. Calculator: Graphing or Scientific.

### 210221 COLLEGE PREP GEOMETRY

#### 210221B COLLEGE PREP GEOMETRY(Blended Option)

Year 1.0 credit 9, 10

#### Top 3 Skills: Problem-Solving Skills, Attention to Detail, Writing Skills

*Prerequisite: At least a C in College Prep Algebra I and teacher recommendation.*

Content extends students' knowledge of similarity and congruence. Students will explore geometric concepts and relationships including, but not limited to, formal mathematical arguments, polygons, the coordinate system, right triangle trigonometry, circles and probability. This course focuses on an in-depth analysis of core content and practices to explore advanced topics. Calculator: Graphing or Scientific.

### 210222 GEOMETRY

Year 1.0 credit 10

#### Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge

*Prerequisite: Passing grade in Algebra I and teacher recommendation.*

Content extends students' knowledge of similarity and congruence. Students will explore geometric concepts and relationships including, but not limited to, formal mathematical arguments, polygons, the coordinate system, right triangle, trigonometry, circles and probability. This course focuses on an in-depth exploration of core content and practices. Calculator: Graphing or Scientific.

### **210230 \*HONORS ALGEBRA II**

Year 1.0 credit 10

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

*Prerequisite: At least a B in Honors Geometry or an A in College Prep Geometry and teacher recommendation.*

Content extends Algebra I topics including equations, inequalities, absolute value, simplifying and factoring polynomials, and graphing and writing equations of lines and systems, rational expressions and equations, radical functions, quadratic equations, probability, complex numbers, exponential and logarithmic functions, matrices, sequences, and series. This course focuses on in-depth analysis and extension of core content to learn advanced topics. Calculator: Graphing or Scientific.

### **210231 COLLEGE PREP ALGEBRA II**

Year 1.0 credit 10, 11

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

*Prerequisite: At least a C in both College Prep Geometry and College Prep Algebra I and teacher recommendation.*

Content extends students' knowledge of linear, quadratic, exponential and absolute value functions and extends their repertoire of functions to include polynomial, rational, radical and logarithmic functions. This course focuses on an in-depth analysis of core content and

practices to explore advanced topics. Calculator: Graphing or Scientific.

### **210232 ALGEBRA II**

Year 1.0 credit 11

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

*Prerequisite: A passing grade in Geometry and Algebra I and teacher recommendation.*

Content extends students' knowledge of linear, quadratic, exponential and trig functions and extends their repertoire of functions to include polynomial, rational, radical and logarithmic functions. Additional topics include descriptive statistics and probability. This course focuses on an in-depth analysis of core content and practices. Calculator: Graphing or Scientific.

### **210240 \*HONORS TRIGONOMETRY/PRE-CALCULUS**

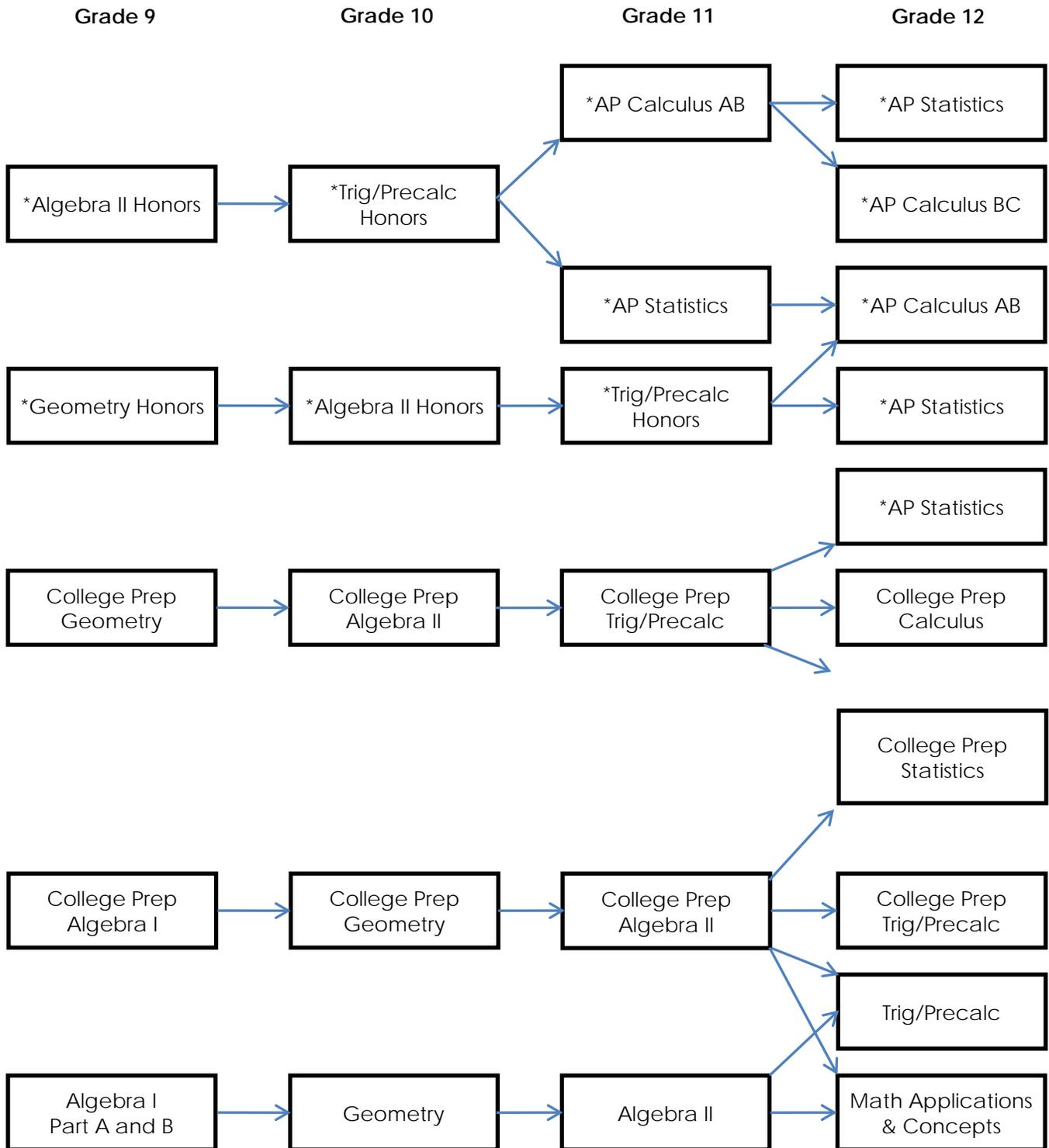
Year 1.0 Credit 11

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

*Prerequisite: At least a B in Honors Algebra II or an A in College Prep Algebra II and teacher recommendation.*

This course is a rigorous and intense study of trigonometry and pre-calculus requiring a substantial time commitment. Trigonometry emphasizes the study of the unit circle, graphs, identities, and applications of triangles. Pre-Calculus emphasizes the study of functions and relations including linear, quadratic, absolute value, radical, polynomial, rational, exponential, and logarithmic. Additional topics include complex numbers, infinite series and sequences, polar graphs, matrices, vectors, parametric equations, conic sections, end behavior, and limits. Calculator: Graphing or Scientific.

## Mathematics Sequence



### 210241 COLLEGE PREP TRIGONOMETRY/PRE-CALCULUS

Year 1.0 Credit 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

*Prerequisite: At least a C in College Prep Algebra II and teacher recommendation.*

Trigonometry emphasizes the study of the unit circle, graphs, identities, and applications of triangles. Pre-Calculus emphasizes the study of functions and relations including linear, quadratic, absolute value, radical, polynomial, rational, exponential, and logarithmic. Additional topics include complex numbers, infinite series and sequences, matrices, conic sections, end behavior, and limits. Calculator: Graphing or Scientific.

### 210242 TRIGONOMETRY/PRE-CALCULUS

Year 1.0 Credit 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

*Prerequisite: At least a B in Academic Algebra II or a passing grade in College Prep Algebra II and teacher recommendation.*

The first semester of this course is spent on trigonometric topics that include right triangle relations, the unit circle, exact values of the trigonometric functions, graphs of trigonometric functions, proving trigonometric identities, solving trigonometric equations, and the Law of Sine and Cosine. The second semester of the course extends Algebra II topics including linear equations, systems of linear equations, systems of inequalities, quadratic functions, and exponential and logarithmic functions. Calculator: Graphing or Scientific.

### 210250 \*AP CALCULUS AB

Year 1.0 Credit 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisite: At least a B- in Honors Trigonometry/Pre-Calculus or an A in College Prep Trigonometry/Pre-Calculus, teacher recommendation and consideration of AP Potential.*

Calculus AB is primarily concerned with developing students' understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. This course is a rigorous and intense study of calculus requiring a minimum of five hours per week outside the class. Calculator: Graphing.

### 210260 COLLEGE PREP STATISTICS

Year 1.0 Credit 12

#### **Top 3 Skills: Writing Skills, Problem-Solving Skills, Attention to Detail**

*Prerequisite: At least a C in College Prep Algebra II or College Prep Trip/PreCalc.*

This course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1) Exploring Data – describing patterns and departures from patterns, 2) Sampling and Experimentation – planning and conducting a study, 3) Anticipating Patterns – exploring random phenomena using probability and simulation, 4) Statistical Inference – estimating population parameters and testing hypotheses.

### 210251 \*AP STATISTICS

Year 1.0 Credit 11, 12

**Top 3 Skills: Writing Skills, Problem-Solving Skills, Attention to Detail**

*Prerequisite: A passing grade in College Prep Trigonometry/Pre-Calculus, teacher recommendation, and consideration of AP Potential. AP Statistics may be an elective taken concurrently with Calculus.*

This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: 1) Exploring data – describing patterns and departures from patterns, 2) Sampling and Experimentation – Planning and conducting a study, 3) Anticipating Patterns – Exploring random phenomena using probability and simulation, 4) Statistical Inference – Estimating population parameters and testing hypotheses. Calculator: Graphing.

### 210252 \*AP CALCULUS BC

Year 1.0 Credit 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisite: B or better in AP Calculus AB.* This course is for students who have already successfully completed AP Calculus AB and is designed to expose students to the topics covered in a second semester college-level calculus course. The course begins with a review of AP Calculus AB topics in order to strengthen knowledge of those concepts and then moves into new topics. Content includes four main topics: 1. Functions, Graphs and Limits, 2. Derivatives, 3. Integrals, and 4. Polynomial Approximations and Series. The class is geared to prepare students to take the AP exam.

### 210261 COLLEGE PREP CALCULUS

Year 1.0 Credit 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

*Prerequisite: At least a C in College Prep Trigonometry/Pre-Calculus and teacher recommendation.*

This course covers differential calculus and introduces integral calculus – theory, methods, and applications. Calculator: Graphing.

### 210262 MATH APPLICATIONS AND CONCEPTS

Year 1.0 Credit 12

**Top 3 Skills: Problem-Solving Skills, Teamwork Skills, Rising to the Challenge**

*Prerequisite: A passing grade in Algebra II and teacher recommendation.*

This course is comprised of a variety of disciplines: discrete math, algebra, consumer math, geometry, probability, and statistics. The course also includes set theory, number theory, financial management, history of mathematics, and statistical measures. Calculator: Graphing or Scientific.

## SCIENCE

Science is part of all our lives, no matter what occupation or endeavors one embarks upon. To be an informed citizen, one must have an understanding of basic principles of science. The world is becoming more and more scientifically and technologically oriented. We would like all of our students to be able to graduate from Avon Grove with an appreciation and understanding of the world of science.

A variety of courses are offered in order to meet the needs of all of our students, regardless of their backgrounds, ability levels, and interests. The Honors and AP courses are the most

rigorous; good study skills and work habits are essential to being successful. A high level of self-motivation and strong desire to achieve positive results by each student will enrich the Honors and AP courses for everyone. The Science Department is aware that students have the opportunity to override into courses for which they were not recommended. However, if a student has not completed at least one of the Honors level science courses included in the prerequisites when two are required, that student is **not** eligible to override into the AP level course.

The Traditional Academic courses are designed for students planning on college. The different levels are for different potential career paths. The Technical Academic courses are designed to meet the needs of the student desiring a vocational/technical program after graduation or unsure if higher education is in his future plans.

### **210311 COLLEGE PREP INTEGRATED SCIENCE**

Year 1.0 credit 9

#### **Top 3 Skills: Problem-Solving Skills, Writing Skills, Teamwork Skills**

This course is an integrated science course focused on Physics, Chemistry and Ecology. Some Algebra I level math skills will be introduced and used while studying these topics. This course is a preparation for the Biology and Chemistry. Students must pass this course before being allowed to move on to Biology.

### **210312 INTEGRATED SCIENCE**

Year 1.0 credit 9

#### **Top 3 Skills: Problem-Solving Skills, Writing Skills, Teamwork Skills**

This course is an interdisciplinary science course with an emphasis on physical science. It is designed to prepare students for success in future science courses. Students taking this course must receive a passing grade to move

on to Biology. Students enrolled in this course commonly take either Algebra I or Math I.

### **210313 SHELTERED SCIENCE PART I**

### **210314 SHELTERED SCIENCE PART II**

Semester .5 credit 9

#### **Top 3 Skills: Problem-Solving Skills, Writing Skills, Teamwork Skills**

This is a fundamental freshman science course designed for students with limited English proficiency (LEP). The goal of this course is to prepare these students for Biology and Chemistry as well as to improve performance of this subgroup on the Keystone Exams. Topics covered include The Scientific method, Fundamentals of Chemistry and Physics, and some basic Biology concepts. Two semesters of ½ credit each are required to complete the course. Semesters do not need to be completed in a specific order.

### **210320 \*HONORS BIOLOGY**

Year 1.0 Credit 9, 10

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisite: From FSEMS: Minimum of A in Algebra I or A- in Honors Geometry. From AGHS: Minimum of A in 210331 College Prep Integrated Science and Minimum of A in 210211 College Prep Algebra I or A- in 210220 Honors Geometry or A in 210221 College Prep Geometry, and teacher recommendation.*

This course is an advanced, fast-paced biology course with a laboratory-oriented approach structured around inquiry. It is aligned to the Pennsylvania Core standards in Biology and includes the following concepts: biochemistry, cell physiology, genetics, ecology, and evolution and is designed for the science/math college-bound student. High-level skills in reading, writing, math, scientific reasoning, and in-depth analysis of experimental data are essential. The students will be expected to do independent work both on an individual and group level. This course includes weekly laboratory experiments.

### **210321 COLLEGE PREP BIOLOGY**

Year 1.0 credit 9, 10

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Teamwork Skills**

*Prerequisite: "C" minimum in 210311 CP Integrated Science.*

This course uses a laboratory-oriented approach structured around inquiry. It is intended for students seeking college admission.

Components of this course require group collaboration as well as the ability to make connections with prior content. It is aligned to the PA Core Biology standards and includes the following concepts: biochemistry, cell physiology, genetics, ecology, and evolution.

### **210323 BIOLOGY**

Year 1.0 credit 10

#### **Top 3 Skills: Problem-Solving Skills, Teamwork Skills, Time Management**

This course is aligned to the PA Core standards in Biology and includes the following concepts: biochemistry, cell physiology, genetics, ecology, and evolution. This course is a laboratory-oriented approach structured around inquiry for college admission.

### **210330 \*HONORS CHEMISTRY**

Year 1.0 credit 10, 11

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Initiative**

*Prerequisites: B minimum in 210220 Honors Geometry or B+ minimum in 210221 College Prep Geometry and B minimum in 210320 Honors Biology or A minimum in 210321 College Prep Biology; or teacher recommendation. Students must take either 210230 Honors Algebra II or 210231 College Prep Algebra II concurrently with this course unless they have already completed the course. A minimum grade of a B in Algebra II is recommended for students who have completed the course.*

This is an advanced, fast-paced chemistry course requiring the ability to do both

independent and group work. High-level skills in mathematics, scientific reasoning, and reading comprehension are needed to be successful. Students will complete at least 18 chapters/units at a rigorous pace. This course, when combined with AP Chemistry, will help students prepare for the AP Chemistry Exam. Disciplined work habits and a strong math background are necessary to succeed in this accelerated math-based chemistry course.

### **210331 COLLEGE PREP CHEMISTRY**

#### **210331B COLLEGE PREP CHEMISTRY (Blended Option)**

Year 1.0 credit 10, 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Initiative**

*Prerequisites: B minimum in 210221 College Prep Geometry or teacher recommendation. It is recommended that 210231 College Prep Algebra II be taken concurrently with this course.*

This course is designed for the college-bound student interested in a science-related field. Students must be able to apply algebra skills efficiently. Students will complete at least 11 chapters/units. Topics are presented through lecture, demonstrations, laboratory activities, and group discussions, all of which involve problem-solving skills.

### **210332 CHEMISTRY**

Year 1.0 credit 10, 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Initiative**

*Prerequisite: Successfully completed any Biology and "C" minimum in College Prep Algebra I or Algebra I A & B or teacher recommendation.* This course is designed for college-bound students. Chemistry topics are presented activities, and group discussions, all of which involve problem-solving skills. This is a math intensive science course.

### 210340 \*HONORS PHYSICS

Year 1.0 credit 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisites: B minimum in Honors Geometry and Honors Algebra II or a B+ in College Prep Geometry and College Prep Algebra II. It is recommended that College Prep Trig/Pre-Calc or c Trig/Pre-Calc be taken concurrently with this course.*

This course is designed for the highly motivated student who is interested in a career in science, engineering, or mathematics. Independent and group learning will be stressed as students apply the basic principles of physics to problem solving and laboratory experiments. This course, when combined with AP Physics 1 & 2 and/or AP Physics C, will help students prepare for the AP Physics 1, AP Physics2, AP Physics C Electricity & Magnetism, and AP Physics C Mechanics exams. Topics covered include kinematics, dynamics, energy, momentum, waves, electricity, magnetism, and optics. A strong math background is required for this course.

### 210341 COLLEGE PREP PHYSICS

Year 1.0 credit 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisites: C minimum in Honors Geometry and Honors Algebra II or a C+ minimum in College Prep Geometry and College Prep Algebra II. It is recommended that College Prep Trig/Pre-Calc or Trig/Pre-Calc be taken concurrently with this course.*

This course is designed for those students planning to major in a science-related field. It will provide students with a foundation in physics for work at the college level. Topics covered include kinematics, dynamics, momentum, energy, waves, electricity, and magnetism. A strong math background is required for this course.

### 210342 APPLIED PHYSICS

Year 1.0 credit 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisites: C minimum in College Prep Geometry and College Prep Algebra II. It is recommended that Trig/Pre-Calc be taken concurrently with this course.*

This course is designed for those students not planning to major in a science-related field. It will concentrate on the concepts of physics using minimal mathematical equations. The course will focus on the similarities and differences of physical concepts and relate them to real-world examples and applications. Topics covered in the class include kinematics, dynamics, waves, sound, light, electricity and magnetism.

### 210350 \*AP BIOLOGY

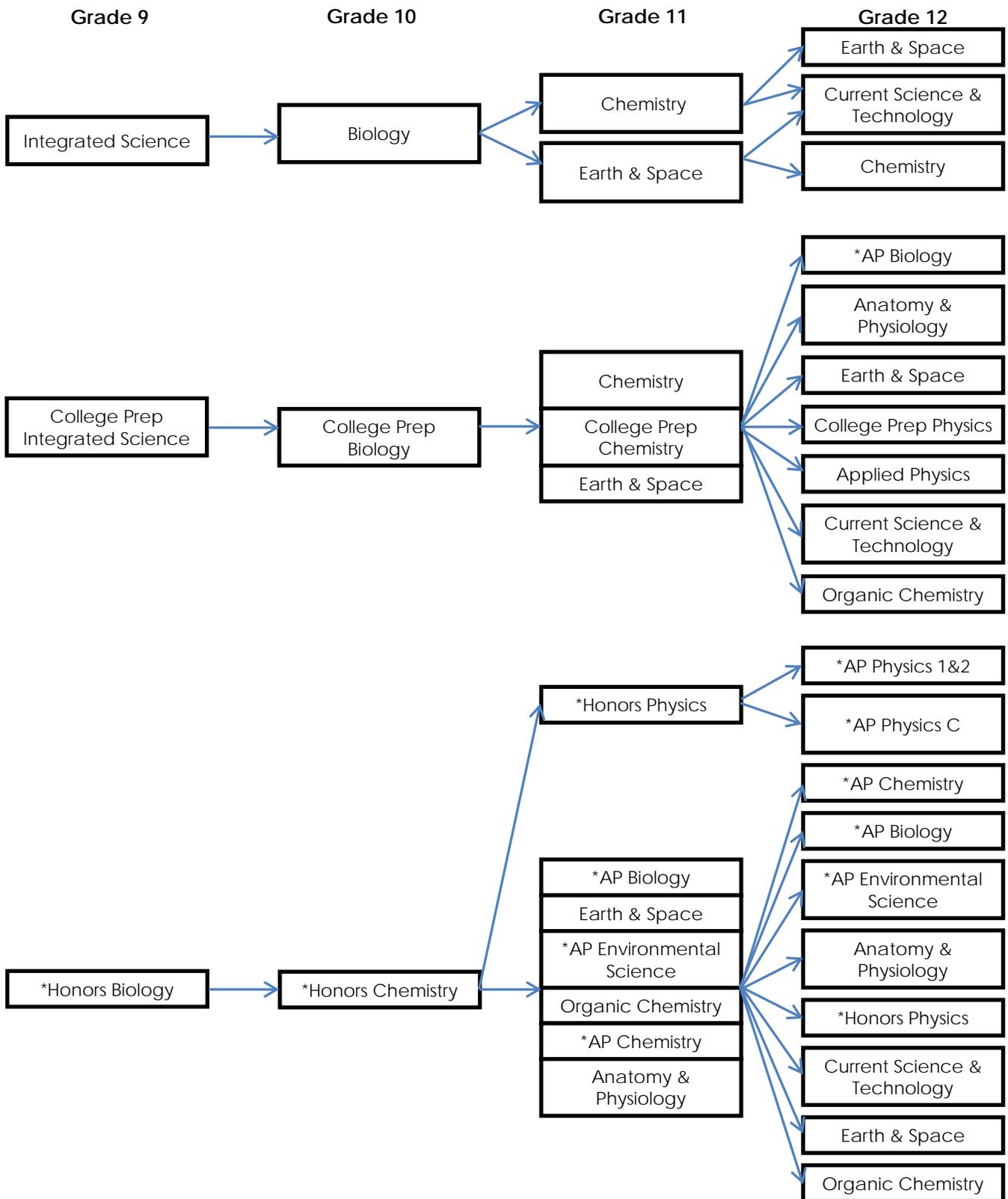
Year 1.0 Credit 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Initiative, Time Management**

*Prerequisites: B test average or above in 210330 Honors Chemistry or an A test average in 210331 College Prep Chemistry, a B test average in 210320 Honors Biology or 210321 College Prep Biology, consideration of AP Potential, or teacher recommendation.*

This course provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology.

## Science Sequence



The main goals are to help students develop a conceptual framework for modern biology, an appreciation of science as a process, and the ability to think and clearly express ideas orally and in writing. The course focuses on molecules and cells, heredity and evolution, and organisms and populations. More than 25% of class is devoted to labs completed in a typical college course. This course has a required summer assignment.

### **210351 \*AP CHEMISTRY**

Year 1.0 Credit 11, 12

**Top 3 Skills: Problem-Solving Skills, Initiative, Time Management**

*Prerequisites: Students have successfully completed 210330, Honors Chemistry and 210231 College Prep Algebra II or 210230 Honors Algebra II, have a test average of B or better in Honors Chemistry, consideration of AP Potential, and teacher recommendation.*

In this course, students will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. This course should contribute to the development of the student's abilities to think and to express their ideas, orally and in writing, with clarity and logic. Topics such as the structure of matter, kinetic theory of gases, chemical equilibrium, chemical kinetics, and the basic concepts of thermodynamics will be presented in considerable depth. This course also includes a laboratory experience equivalent to that of a typical college course. It is recommended for preparation for the AP Chemistry exam and SAT 2 subject test. There will be an emphasis on developing independent work skills. This course has a required summer assignment.

### **210352 \*AP PHYSICS 1 AND 2**

Year 1.0 credit 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisites: Students who have successfully completed 210340 Honors Physics with a C minimum and have already completed or taking concurrently 210250 AP Calculus or 210251 College Prep Calculus, and consideration of AP Potential.*

This course prepares students for the AP® Exams, Physics 1 and Physics 2. AP Physics 1 and 2 will provide instruction in each of the following content areas: kinematics, Newton's laws of motion, torque, rotational motion and angular momentum, gravitation and circular motion, work, energy, and power, linear momentum, oscillations, mechanical waves and sound, fluid statics and dynamics, thermodynamics with kinetic theory and probability, electrostatics, electrical circuits, magnetic fields, electromagnetism, physical and geometric optics, and topics in modern physics. Understanding of physical principles and the ability to apply these principles in the solution of problems are the major goals of the course. The course will employ student-centered learning and guided inquiry to cultivate the development of critical thinking skills. Knowledge of algebra and trigonometry is required for the course. The basic ideas of calculus will be introduced in connection with physical concepts such as acceleration and work.

### **210353 \*AP PHYSICS C**

Year 1.0 credit 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisites: Students who have successfully completed 210340 Honors Physics with a B minimum and have already completed or taking concurrently 210250 AP Calculus or 210251 College Prep Calculus, and consideration of AP Potential.*

This course prepares students for the AP Exams, Physics C: Mechanics, and Physics C: Electricity and Magnetism. AP Physics C will provide

instruction in each of the following six mechanics content areas: kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. The five electricity and magnetism content areas will be: electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. The course will utilize guided inquiry and student-centered learning to foster the development of critical thinking skills. It will use introductory differential and integral calculus throughout the course.

### **210355 \*AP ENVIRONMENTAL SCIENCE**

Year 1.0 credit 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

*Prerequisites: Student successfully completed at least one year of Algebra, 210320 Honors Biology and 210330 Honors Chemistry or teacher recommendation, and consideration of AP Potential.*

This course prepares students for the AP Environmental Science Exam and provides a foundation for the following themes: science is a process, energy conversions underlie all ecological processes, the Earth itself is one interconnected system, humans alter natural systems, environmental problems have a culture and social context, and human survival depends on developing practices that will achieve sustainable systems. In order to create an environment conducive to productive discussions, students are expected to participate on a regular basis. This course has a required summer assignment.

### **210360 COLLEGE PREP ORGANIC CHEMISTRY**

Year 1.0 credit 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Teamwork Skills**

*Prerequisites: B or better in College Prep Chemistry 210331 or C or better in Honors Chemistry 210330; C in College Prep Geometry.* This course is designed for the college-bound student interested in a science-related field, especially those planning to pursue a career in life sciences, health, chemistry, or emerging "green" technologies and biotechnology. This course presents the fundamental principles of carbon (organic) chemistry. It will focus on classes of organic molecules, organic nomenclature, functional groups, and their reactions. Macro scale laboratory experiments will be used to develop classical and instrumental techniques as well as illustrate the principles involved.

### **210361 COLLEGE PREP ANATOMY AND PHYSIOLOGY**

Year 1.0 credit 11, 12

**Top 3 Skills: Time Management, Attention to Detail, Problem-Solving Skills**

*Prerequisites: C or higher in Honors Chemistry 210330 or B- or higher in College Prep Chemistry 210331, B+ or higher in Chemistry 210332 and a B in College Prep Biology 210321 or B- or higher in Honors Biology 210320, or teacher recommendation. Students may take Chemistry 210330, 210331 or 210332 concurrently.*

Anatomy and Physiology is designed for students planning to pursue careers in life sciences, health, or medicine. The course builds on the material learned in Biology and focuses on anatomy, physiology, microbiology, and genetics. More than 25% of the course is devoted to labs that support the content. Anatomy and Physiology is designed for students planning to continue their education after high school.

### **210362 COLLEGE PREP CURRENT SCIENCE AND TECHNOLOGY**

Year 1.0 credit 12

**Top 3 Skills: Problem-Solving Skills, Rising to the Challenge, Teamwork Skills**

*Prerequisite: Seniors who have successfully completed at least three other science courses with a C minimum or teacher recommendation.* This course provides a fourth and/or fifth course of science for those students who will be continuing their education after high school. Current issues and recent scientific developments such as stem cell research will be used to illustrate the interdisciplinary nature and ethics of science, science literacy, and the 21st century communication of science information by popular media (TV, movies, Internet, etc.).

**210363 EARTH AND SPACE SCIENCE**

Year 1.0 credit 11, 12

**Top 3 Skills: Calm Under Pressure, Time Management, Rising to the Challenge**

It is strongly recommended that the student has passed two high school science courses before taking this course. This course is an introduction to the various fields of the Earth Sciences. Students will study: physical geology (plate tectonics, volcanoes, earthquakes and mountain building), meteorology (detailed examination of weather, climate, and severe weather events), astronomy (study of the universe, galaxies, solar system, earth moon system, and a short unit on the history of space exploration). This course is for everybody, college-bound or not.

# SOCIAL STUDIES

We in the Social Studies Department believe in providing a curriculum, which gives students the opportunity to become informed and involved citizens. To that goal, students are required to successfully complete three Social Studies credits for graduation as follows: U.S. History, World History or AP World History, and one of the following: AP United States History, AP European

History, AP Economics, AP US Government & Politics, or Government/Economics, ,

Additionally, the following elective courses count as Humanities elective credits toward graduation, but do not count as substitutes for one of the required courses:

Street Law, Psychology, AP Psychology, AP Human Geography, American History Through Film, 20<sup>th</sup> Century U.S. Military History, Greek & Roman History, Holocaust & Genocide Studies, and Sociology

**210410 \*HONORS UNITED STATES HISTORY**

**210410B \*HON. UNITED STATES HISTORY** (Blended Option)

Year 1.0 credit 9

**Top 3 Skills: Teamwork Skills, Initiative, Honesty**

This is a detailed analysis of the history of the United States from 1880 to the present, designed to increase understanding and to make learning as stimulating as possible. The objective is preparation of students for a college social studies curriculum and providing insight into the complex problems faced by those directly involved in the building of America’s democratic ideals. Research, writing, and independent study will be stressed. To accomplish this objective, an in-depth search for the concepts and forces that motivated events in our nation’s past is encouraged. Carefully selected readings supplement the text. A major research paper or series of projects is required. This course is recommended for those students interested in the Arts/Humanities/Communications Cluster in the Traditional Academic Pathway.

**210411 COLLEGE PREP UNITED STATES HISTORY**

**210411B COLLEGE PREP UNITED STATES HISTORY** (Blended Option)

Year 1.0 credit 9

**Top 3 Skills: Teamwork Skills, Initiative, Honesty**

This is a survey of the history of the United States from 1880 to the present, designed to increase

understanding and to make learning as stimulating as possible. The 411 level's objective is preparation of students for a college social studies curriculum and providing insight into the complex problems faced by those directly involved in the building of America's democratic ideals. Research, writing, and independent study will be stressed. To accomplish this objective, an in-depth search for the concepts and forces that motivated events in our nation's past is encouraged. Carefully selected readings supplement the text. A major research paper or series of projects is required. This course is recommended for those students interested in the Arts/Humanities/Communications Cluster in the Traditional Academic Pathway.

#### **210412 UNITED STATES HISTORY**

Year 1.0 credit 9

##### **Top 3 Skills: Teamwork Skills, Initiative, Honesty**

This course is a basic American history course and spends more time on the underlying currents at work in American history. There is a particular focus on late 19<sup>th</sup> century and 20<sup>th</sup> century events. Students will concentrate on reading, writing, and basic study skills in connection with the course material. This course is recommended for those students interested in the Arts/Humanities/Communications Cluster in the Traditional Academic Pathway as well as those in the Technical Academic Pathway.

#### **210414 UNITED STATES HISTORY**

Year 1.0 credit 9-12

##### **Top 3 Skills: Teamwork Skills, Initiative, Honesty**

This course provides instruction to LEP (Limited English Proficiency) students who have arrived in the country within the last two years and have limited background in American history. The course will develop students' knowledge of course content and focus on the acquisition of language skills needed for other Social Studies

courses. The course content will cover the main concepts and events in American history from the colonial period to the present, with the focus on the period since 1890.

#### **210420 \*HONORS WORLD HISTORY**

Year 1.0 credit 10

##### **Top 3 Skills: Initiative, Teamwork Skills, Honesty**

This course covers world history from 8000 B.C. E. to the present and incorporates thematic and regional approaches, the use of multiple social studies disciplines, and the development of college level historical skills. Research, writing, and independent study will be stressed. Carefully select readings supplement the text. A major research paper or series of projects are required. This course is recommended for those students interested in the Arts/Humanities/Communications Clusters in the Traditional Pathway.

#### **210421 COLLEGE PREP WORLD HISTORY**

Year 1.0 credit 10

##### **Top 3 Skills: Initiative, Teamwork Skills, Honesty**

This course covers world history from 8000 B. C. E. to the present and incorporates thematic and regional approaches, the use of multiple social studies disciplines, and development of college-prep level historical skills. Understanding of different historical texts and writing skills development will be stressed. This course is recommended for those students interested in the Arts/Humanities/Communications Cluster in the Traditional Academic Pathway as well as those in the Technical Academic Pathway.

#### **210422 WORLD HISTORY**

Year 1.0 credit 10

##### **Top 3 Skills: Initiative, Teamwork Skills, Honesty**

This course focuses on why people live and work where they do how people adapt to their environment. Students will concentrate on reading, writing and basic study skills in

connection with the course material. This course is recommended for those students primarily interested in the Technical Academic Pathway.

### **210431 COLLEGE PREP**

#### **GOVERNMENT/ECONOMICS**

Year 1.0 credit 11, 12

**Top 3 Skills: Teamwork Skills, Initiative, Time Management**

*Prerequisites: United States History 411 or 412 and World History 421 or 422 or seniors.*

This course is designed as a survey of American government and the American economic system. Designed as a college prep course, it will deal with the philosophy of government and economics and the interplay between the two in the last 200 years. Federalism, political theory and behavior, party philosophy, and the three branches of the national and state government will be explored in the government portion of the course. Current events and municipal government will also be covered. The economics portion of the course will provide a basic economic literacy to the student in covering the fundamental ideas in microeconomics and macroeconomics. More importantly, the student will be exposed to the critical relationship between government, business, and the emerging global economy as well as the resulting impact on their lives. A field trip to Washington, DC or another government-related site is available to interested students. This course is recommended for students interested in the Arts/Humanities/Traditional Academic Pathway.

### **210432 GOVERNMENT / ECONOMICS**

Year 1.0 credit 11

**Top 3 Skills: Initiative, Teamwork Skills, Honesty**

*Prerequisites: United States History and World History*

This course is designed as a survey of American government and the American economic

system. The course is for students in the technical pathway. The course will integrate the state standards in government and economics and will include the principles and documents of government, rights and responsibilities of citizenship, how government works, how international relationships function, economic systems, markets and functions of governments, scarcity and choice, economic interdependence, and work and earnings. A field trip to Washington, D. C., or other government-related site may be offered.

### **210433 \*AP US GOVERNMENT & POLITICS**

Year 1.0 credit 11, 12

**Top 3 Skills: Writing Skills, Time Management, Initiative**

*Prerequisites: Successful completion of United States History and World History with a grade of a B+ or better, current Social Studies teacher recommendation, and appropriate AP Potential recommendation.*

AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States.

The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments.

### **210450 \*AP EUROPEAN HISTORY**

Year 1.0 credit 11, 12

**Top 3 Skills: Time Management, Initiative, Writing Skills**

*Prerequisites: Successful completion of United States History and World History with a grade of a B+ or better, current Social Studies teacher recommendation, and appropriate AP Potential recommendation.*

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. In addition to providing a basic narrative of events and movements, the goals of the European History are to develop an ability to analyze historical evidence and historical interpretation, and an ability to express historical understanding and writing. A field trip to a relevant site is planned.

### **210451 \*AP WORLD HISTORY**

Year 1.0 credit 10

#### **Top 3 Skills: Writing Skills, Time Management, Initiative**

*Prerequisites: Grade 10 preference; successful completion of United States History with a grade of A- or better; current Social Studies teacher recommendation, and appropriate AP Potential recommendation.*

The AP World History course is designed to provide an opportunity for advanced study for tenth graders. Chronologically, the course covers the period from 8000 B.C.E. to the present and focuses on the nature of changes in human society from a global approach. The course will provide students with the analytical skills and factual knowledge equivalent to an introductory course in world history. Intense independent study and analytical writing are required.

### **210452 \*AP UNITED STATES HISTORY**

Year 1.0 credit 11, 12

#### **Top 3 Skills: Writing Skills, Problem-Solving Skills, Attention to Detail**

*Prerequisites: Successful completion of United States History and World History with a grade of a B+ or better, current Social Studies teacher recommendation, and appropriate AP Potential recommendation.*

The AP U.S. History course is designed to provide students with the analytic skills and factual

knowledge necessary to deal critically with the problems and material in U.S. history. Students will learn to assess historical materials, their relevance to a given interpretive problem, reliability, and importance, and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History class helps 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 essay format. A field trip to a historical site is planned.

### **210455 \*AP ECONOMICS**

Year 1.0 credit 11, 12

#### **Top 3 Skills: Teamwork Skills, Attention to Detail, Time Management**

*Prerequisites: Successful completion of two Social Studies credits with B+ or better; a B+ or better in two math courses, current Social Studies teacher recommendation, and appropriate AP Potential recommendation.*

Students will study both Microeconomics and Macroeconomics principles throughout the course of the year in preparation for the College Board's Advanced Placement Examinations. During the first semester, students will gain an understanding of principles that apply to individual consumers within the larger economic system. The primary emphasis of study will be focused on product markets, factor markets, and the government's role in promoting greater competition, efficiency, and equity in the economy. The second portion of the course will deal with Macroeconomics principles. The study of national income and price-level determination, and also developing students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economies will be included. Strong graphing skills are required.

### 210456 \*AP HUMAN GEOGRAPHY

Year 1.0 credit 9, 10

**Top 3 Skills: Initiative, Time Management, Writing Skills**

*Prerequisites: Successful completion of 8<sup>th</sup> grade social studies with A- or better.*

The AP Human Geography course presents high school students with the curricular equivalent of an introductory college-level course in human or cultural geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

### 210454 \*AP PSYCHOLOGY

**210454B \*AP PSYCHOLOGY** (Blended Option)

Year 1.0 credit 11, 12

**Top 3 Skills: Initiative, Time Management, Attention to Detail**

*Prerequisites: For juniors and seniors who have passed three Social Studies courses including United States History, World History and one of the following: GOV 431, GOV 442, APUS 440, APEUR 450, APECAN 455 or APGOV 433; counts as a Humanities credit; B+ in previous social studies courses, appropriate AP Potential recommendation, and current social studies teacher recommendation.*

This course is designed to introduce students to the systematic and scientific study of the behavior of mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will also learn about ethics and methods that psychologists use in their scientific study.

### 210462 COLLEGE PREP STREET LAW

Semester .5 credit 12

**Top 3 Skills: Teamwork Skills, Honesty, Initiative**

*Prerequisites: For seniors only who have passed three Social Studies courses including United States History, World History and one of the following: GOV 431, GOV 442, APUS 440, APEUR 450, APECAN 455 or APGOV 433; counts as a Humanities credit.*

This course is designed to give students practical knowledge of the law. A field trip to a law-related institution is planned. This course is recommended for those students interested in the Arts/Humanities/ Communications Cluster in the Traditional Academic Pathway as well as those in the Technical Academic Pathway.

### 210461 PSYCHOLOGY

Year 1.0 credit 11, 12

**Top 3 Skills: Teamwork Skills, Initiative, Attention to Detail**

*Prerequisites: For juniors and seniors who have passed three Social Studies courses including United States History, World History, and one of the following: GOV 431, GOV 442, APUS 440, APEUR 450, APECAN 455 or APGOV 433; counts as a Humanities credit.*

This course stresses the scientific method used in psychology to approach human problems. The focus is on what is happening to society today and how individuals relate to one another. Topics will include stress, mental illness, self-image, and personality. This course is for those who plan to go to a four-year college. This course is recommended for those students interested in the Arts/Humanities/ Communications Cluster in the Traditional Academic Pathway as well as those in the Technical Academic Pathway.

### 210470 AMERICAN HISTORY THROUGH FILM

Semester .5 credit 9, 10, 11, 12

**Top 3 Skills: Teamwork Skills, Initiative, Time Management**

This is a reading and writing intensive course that seeks to answer the question, "Is film an historical source?" Students will be studying different themes in American History and culture through primary and secondary resources and comparing these to various films. To create a successful and productive classroom dialogue, this course is recommended to students with a strong interest in American culture and historical analysis. Students should be prepared to study mature themes and subjects.

### **210471 20<sup>th</sup> CENTURY US MILITARY HISTORY**

Semester .5 credit 11 & 12

**Top 3 Skills: Teamwork Skills, Initiative, Time Management**

*Prerequisites: B or better in previous Social Studies Courses*

This course will focus on the military history of the United States from the beginning of the twentieth century and into the twenty-first century. The course will explore and detail the major military campaigns the United States has participated in during this time period including, but not limited to: World War I and World War II, Cold War (including Korea, Vietnam, and Latin America), the Gulf War, the global war on terrorism, and the conflicts in Iraq and Afghanistan. Course objectives will focus on the geopolitical, economic, and social causes of war, how the United States military involvement in wars has affected our society, and how the actions of the United States military as directed by our government has impacted the rest of the world.

### **210472 GREEK & ROMAN HISTORY**

Semester .5 credit 10, 11, 12

**Top 3 Skills: Teamwork Skills, Initiative, Time Management**

*Prerequisites: B or better in previous Social Studies Courses*

This semester course will focus on the Classical Era of Greek and Roman Civilization. Beginning

with the rise of powerful city states in Greece such as Athens and Sparta, and concluding with the fall of the Western Roman Empire in 476 AD, students will gain a more in depth learning experience of the two civilizations that are the foundations of Western civilization. This course is ideally suited for those students that have a strong desire to learn about ancient history, as well as plan to enroll in History courses at the college level. This course will require independent reading, writing, and analyzing primary sources.

### **210473 HOLOCAUST & GENOCIDE STUDIES**

Semester .5 credit 9-12

**Top 3 Skills: Teamwork Skills, Initiative, Time Management**

This course is a multidisciplinary study of the events in Europe from 1935 to 1945 known as the Holocaust, as well as a consideration of genocidal events in other regions during the 20<sup>th</sup> and 21<sup>st</sup> centuries. Using readings and film from history, political science, literature, religion, philosophy, art, and psychology, the approach will be a problem-solving one focusing on understanding historical events and human behavior. Students should be prepared to consider mature themes and topics.

### **210474 SOCIOLOGY**

Semester .5 credit 11, 12

**Top 3 Skills: Teamwork Skills, Initiative, Time Management**

Sociology is the scientific study of human groups and social behavior. It is also part of the social sciences which include history, economics, psychology, political science, and anthropology. The difference between sociology and the other social sciences is the word "social". Sociology studies all factors when two or more people interact with each other under all conditions. Because of its broad coverage, there are many areas of study that will be discussed such as religion, culture,

deviant behavior, inequality of gender, family, education and others.

# WORLD LANGUAGES

The World Language Department provides an opportunity for serious students to acquire second language skills in French, Spanish, German, and Italian. Most colleges require at least two consecutive years of foreign language high school credits. In order to begin world language study, we suggest that students possess strong English skills.

Guidelines for continuation of study will be the successful completion of the previous course in sequence. In addition, to ensure the success of all students, a grammar evaluation assessment will be administered to incoming students transferring from a different district school or state. The results of the exam will be used to assist with placement of students in language courses at or above the level II (for that language).

**Seniors** interested in taking an entry level world language **must** meet one of the following prerequisites: 1) have successfully completed two years of a world language with a final grade of B or better in each class prior to enrollment and 2) have not had the opportunity to take an entry level language prior to senior year due to scheduling reasons or other special circumstances. Each request will be evaluated on a case-by-case basis by the guidance counselor, the world languages department chair, and an administrator when appropriate. Priority in scheduling entry-level world language courses will be given to students in grades **9-11** who have not yet had the opportunity to take an entry-level world language course.

## 210511 SPANISH I

Year 1.0 credit 9, 10, 11

**Top 3 Skills: Speaking Skills, Writing Skills, Attention to Detail**

*Prerequisite: Minimum of C+ in Language Arts (middle school) or minimum of C+ in English (high school).*

This is an introduction to the Spanish language emphasizing the skills of reading, writing, speaking, and listening. Students will also be exposed to the customs and culture of Spanish speaking countries. This is a college preparatory language course that emphasizes grammar and spelling as well as conversational skills.

## 210512 SPANISH II

Year 1.0 credit 9,10,11,12

**Top 3 Skills: Attention to Detail, Writing Skills, Speaking Skills**

*Prerequisite: C in Spanish I.*

This course is a continuation of Spanish I with more emphasis placed on reading and writing through grammar study. Culture and conversational skills are expanded.

## 210513 SPANISH III

Year 1.0 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Speaking Skills, Initiative**

*Prerequisite: B in Spanish II.*

This course focuses on the history, geography, and culture of Spanish speaking countries. In an effort to increase communication and oral fluency of the language, more emphasis will be placed on reading, understanding, and oral proficiency than in level II. Advanced grammar skills are expanded.

**210515 \*SPANISH IV**

Year 1.0 credit 11, 12

**Top 3 Skills: Writing Skills, Speaking Skills, Initiative***Prerequisite: B in Spanish III.*

This course is designed for the advanced language student and to begin preparation for the AP Spanish course and exam. The course emphasis will be focused on improving grammar skills through the listening, speaking, reading, and writing process. Students will also be exposed to Spanish and Latin American literature selections as a means of discussion and self-expression in the language. Serious students will find this course most helpful in their overall Spanish language experience.

**210521 FRENCH I**

Year 1.0 credit 9, 10, 11

**Top 3 Skills: Speaking Skills, Writing Skills, Attention to Detail***Prerequisite: Minimum of C+ in Language Arts (middle school), or minimum of C+ in English (high school).*

This is an introduction to the French language emphasizing the skills of listening, speaking, reading, and writing. Students will also learn about the customs and culture of France and the Francophone world.

**210522 FRENCH II**

Year 1.0 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Writing Skills, Speaking Skills***Prerequisite: C in French I.*

French II is a basic study of the language emphasizing the skills of reading and writing while enhancing the listening and speaking skills.

**210523 FRENCH III**

Year 1.0 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Speaking Skills, Initiative***Prerequisite: B in French II.*

This is an intermediate level of language learning with emphasis on vocabulary enrichment and advanced grammatical constructions. At this level, students read short stories and their first novel.

**210525 \*FRENCH IV**

Year 1.0 credit 11, 12

**Top 3 Skills: Writing Skills, Speaking Skills, Initiative***Prerequisite: B in French III.*

This is an advanced level language class with strong emphasis on improving a solid grammar base along with a variety of cultural content and literature to achieve advanced-level proficiency in listening, speaking, reading, and writing. The inclusion of an AP comprehensive section will assist the student in transitioning to level V for preparation of the College Board Exam.

**210531 GERMAN I**

Year 1.0 credit 9, 10, 11

**Top 3 Skills: Speaking Skills, Writing Skills, Attention to Detail***Prerequisite: Minimum of C+ in Language Arts (middle school), or minimum of C+ in English (high school).*

This is an introduction to the German language emphasizing the skills of reading, writing, speaking, and listening. Students will also be exposed to the customs and culture of Germany. This is a college preparatory language course that emphasizes grammar and spelling and conversational skills.

**210532 GERMAN II**

Year 1.0 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Writing Skills, Speaking Skills***Prerequisite: Recommended C in German I.*

In German II, students will improve and expand upon their basic skills acquired in German I. In

addition, students will continue with progressive readings and speaking skills through dialogue, role-playing, and conversational exercises. German culture and history will continue to be presented.

### **210533 GERMAN III**

Year 1.0 credit 11, 12

**Top 3 Skills: Attention to Detail, Speaking Skills, Initiative**

*Prerequisite: B in German II.*

This course is designed for students to continue their learning of the German language based upon various cultural and historical topics. There is an emphasis placed on dialogues and reading selections which present real-life contexts in order to increase the overall understanding of German. There will be a focus and continuation of grammar structures and vocabulary in order to successfully communicate in German.

### **210535 \*GERMAN IV**

**210535B \*GERMAN IV** (Blended Option)

Year 1.0 credit 11, 12

**Top 3 Skills: Writing Skills, Speaking Skills, Initiative**

*Prerequisite: B in German III.*

Students will gain advanced proficiency in the skill areas of reading, writing, listening, and speaking. Emphasis is placed on oral communication. German history, literature, and art will be studied to help students gain a deeper understanding of German language and culture.

### **210541 ITALIAN I**

Year 1.0 credit 9, 10, 11

**Top 3 Skills: Speaking Skills, Writing Skills, Attention to Detail**

*Prerequisite: Minimum of C+ in Language Arts (middle school), or minimum of C+ in English (high school).*

This is an introduction to the Italian language and culture. Vocabulary acquisition and basic grammar skills are emphasized. Students will be required to show novice mastery in all four language skills: listening, speaking, reading, and writing.

### **210542 ITALIAN II**

Year 1.0 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Writing Skills, Speaking Skills**

*Prerequisite: Recommend C in Italian I.*

This course is designed as a continuation of Italian I to improve and expand upon their basic skills. Furthermore, students will compare and contrast aspects of Italian and American culture. Students will be required to show intermediate low mastery in all four language skills: listening, speaking, reading, and writing.

### **210543 ITALIAN III**

Year 1.0 credit 11, 12

**Top 3 Skills: Attention to Detail, Speaking Skills, Initiative**

*Prerequisite: B in Italian II.*

This course focuses on more advanced grammatical constructions, greater vocabulary enrichment, and a deeper exploration of Italian culture. Students will be exposed to Italian geography and customs. They will also be able to read a chapter book in Italian. Speaking, reading, and writing are emphasized.

### **210545 \*ITALIAN IV**

Year 1.0 credit 12

**Top 3 Skills: Writing Skills, Speaking Skills, Initiative**

*Prerequisite: B in Italian III.*

This course is designed for the intermediate-mid to intermediate-high language student. The course emphasis will be on expanding vocabulary and improving grammatical skills. Students will be exposed to and report on Italian literature, cinema, art, and music as a means to

seminar-style discussion and self-expression in the language. They will also be able to read two collections of stories in Italian. Speaking and writing are emphasized. Enrichment opportunities will be offered to those students interested in taking the AP Exam in Italian Language & Culture.

### **210550 \*AP SPANISH LANGUAGE**

Year 1.0 credit 12

#### **Top 3 Skills: Rising to the Challenge, Time Management, Problem-Solving Skills**

*Prerequisite: Student has successfully completed Spanish IV with a B average and teacher recommendation.*

This course is primarily focused on preparing for the advanced language student to take the AP Spanish exam but is not exclusive to those students. This course will work to develop the student's language skills with an emphasis on vocabulary enrichment to increase their abilities in listening, speaking, reading, and writing. Students will work to increase their fluency and accuracy in both written and spoken Spanish. Students taking the AP Exam will be exempt from the course's final exam.

### **210551 \*AP FRENCH LANGUAGE**

Year 1.0 credit 12

#### **Top 3 Skills: Rising to the Challenge, Time Management, Problem-Solving Skills**

*Prerequisite: Successful completion of French IV with a B Average and teacher recommendation.*

This course is primarily focused on preparing the advanced language student to take the AP French Language Exam but is not exclusive to those students. This course will work to develop the student's language skills with an emphasis on vocabulary enrichment to increase their abilities in listening, speaking, reading, and writing. Students will work to increase their fluency and accuracy in both written and spoken French. Students taking the AP Exam will be exempt from the course's final exam.

### **210552 \*AP SPANISH LITERATURE & CULTURE**

Year 1.0 credit 10, 11, 12

#### **Top 3 Skills: Rising to the Challenge, Time Management, Problem-Solving Skills**

This course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, and essays) from Peninsular Spanish, Latin American, and United States Hispanic literature. Students continue to develop proficiencies across the full range of the modes of communication (interpersonal, presentational, and interpretive), honing their critical reading and analytical writing skills. Literature is examined within the context of its time and place, and also includes a strong focus on cultural connections and comparisons, including exploration of various media (e.g., art, film, articles, and literary criticism).

### **210561 SPANISH FOR NATIVE SPEAKERS I**

Year 1.0 credit 9, 10, 11, 12

#### **Top 3 Skills: Writing Skills, Teamwork Skills, Initiative**

This course offers native speakers of Spanish the opportunity to strengthen their basic skills, focusing on Spanish reading and writing. Through the analysis and study of global themes, students' knowledge, and pride in their heritage are enhanced.

### **210562 SPANISH FOR NATIVE SPEAKERS II**

Year 1.0 credit 10, 11, 12

#### **Top 3 Skills: Writing Skills, Speaking Skills, Attention to Detail**

*Prerequisite: Spanish for Native Speakers I.* Students will continue their study of their native Spanish language, heritage, and culture. A focus on skills for analyzing and comprehending written Spanish will continue through varied types of speaking, reading, and writing exercises, as well as use of multimedia and film, to enhance the learning process. The course will use supplemental texts (novels and/or short story anthologies) to provide for students' Spanish literary and cultural awareness.

# HEALTH AND PHYSICAL EDUCATION

## P.E. OVERVIEW

The purpose of physical education is to develop and educate students to become integrated individuals; physically, mentally, socially, and emotionally.

The AGHS H/PE Department is committed to teaching students the value of physical activity in promoting fitness and giving them the opportunity to increase their fitness levels through a variety of activities. Students have the opportunity to succeed at their own level, which provides many psychological benefits contributing to a greater sense of well-being, positive self-esteem, and personally rewarding experiences. A combination of team and individual activities provide a balance of traditional and non-traditional programs. Emphasis is on mastery of skills, strategies, and safety procedures as they relate to each activity, equipment and program.

Each Physical Education course is required and a semester in length. All students must complete 2 credits of Physical Education to fulfill graduation requirements. Students may take 2 Physical Education classes in a single year provided that they are taken in the appropriate sequence: (PE 1, PE 2, PE 3, PE 4).

## HEALTH OVERVIEW

Health is a graded semester course of .5 credit offered in the sophomore year and is required for graduation. The curriculum is designed to involve students in educational activities to promote and emphasize wellness and improve

overall quality of life. Helping to reduce and prevent morbidity and mortality rates is a primary concern. The program will emphasize mental, social, and physical aspects of health. Within each subject area, activities will be designed to promote the idea of optimal health and wellness for the individual, family, and community. Concepts in health education are taught using multi-media presentations and assignments are designed to evoke critical thinking about the various health topics.

### 210612 PE 1 (Coed)

Semester 0.5 credit

#### **Top 3 Skills: Problem-Solving Skills, Rising to the Challenge, Teamwork Skills**

This course is concerned with basic skill development, physical fitness, and social development. Emphasis is placed on basic skills and rules. Team sports offer the opportunity for development of teamwork, leadership, and cooperation. Individual activities offer the opportunity for self-motivation, creative expression, and personal goal setting.

### 210622 PE 2 (Coed)

Semester 0.5 credit

#### **Top 3 Skills: Problem-Solving Skills, Rising to the Challenge, Teamwork Skills**

This course is designed to develop and refine the skills introduced in PE 1. Emphasis is placed on increased levels of performance in team and individual sports. Wellness and fitness will be a consistent theme throughout the curriculum.

### 210625 HEALTH EDUCATION (Coed)

Semester 0.5 credit 10

#### **Top 3 Skills: Initiative, Problem-Solving Skills, Speaking Skills**

This sophomore course is concerned with the topics listed in the State Guidelines for Health Education. Emphasis is placed on the areas of human sexuality, social diseases, mental

hygiene, substance abuse, human relationships, and nutrition.

### **210632 PE 3 (Coed)**

Semester 0.5 credit 11

#### **Top 3 Skills: Problem-Solving Skills, Rising to the Challenge, Teamwork Skills**

This program provides the opportunity to engage in team sports and individual lifetime activities that have carry-over value into adult life. Basic skills and basic rules of recreational-type activities are introduced. Wellness and fitness will be a consistent theme throughout. Cooperative learning and group activities will be presented in an adventure-based non-traditional curriculum. Our indoor climbing facility will be used to culminate the learning experience.

### **210642 PE 4 (Coed)**

Semester 0.5 credit 12

#### **Top 3 Skills: Problem-Solving Skills, Rising to the Challenge, Teamwork Skills**

This program provides for additional lifetime sports involvement. More advanced development in team and individual sport is encouraged. Students are given the opportunity to develop personal goals of physical fitness for lifetime performance. A community CPR certificate course will also be included at this level.

## **BUSINESS**

It is the goal of the Business Education Department to prepare students with the knowledge, skills and attitudes necessary to be successful in an ever-changing world. To meet this end, the Business Department offers a wide scope of courses from which all students may elect during their four years of high school. Students may elect these courses in preparation for a career in business in an area such as

accounting, or they may elect business courses for their own personal development.

A large number of computer courses are also offered as part of the Business Education curriculum. The changing world is dependent on technology. Technology gives students a more interactive role in the learning process. In today's world it is imperative students develop word-processing, database, spreadsheet and programming skills.

The Business Department suggests every student take a keyboarding class in grade 9 or 10. The keyboarding class will prepare students for any future computer courses. More effective use of the keyboard will lead to greater computer efficiency.

## **COMPUTER APPLICATIONS**

### **210710 MICROSOFT WORD, EXCEL, POWERPOINT & ACCESS**

Semester 0.5 credit 9, 10, 11, 12

#### **Top 3 Skills: Speaking Skills, Time Management, Initiative**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Information Technology**

Students will learn features in Microsoft Word, Microsoft Excel, Microsoft PowerPoint and Microsoft Access. This course prepares students for using the Microsoft applications, which are commonly used in the business and academic worlds. Students will create documents, spreadsheets, presentations and databases that will simulate real world applications while learning the functions of the programs. This course will also prepare students to take the Microsoft Office Specialist certification exam in the respective subjects that is offered in the Microsoft Advanced Office course.

### **210711 MICROSOFT ADVANCED OFFICE**

Semester 0.5 credit 9, 10, 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Speaking Skills**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Information Technology**

Students are required to complete the Microsoft Word, Excel, Powerpoint and Access course prior to taking this course. The students will continue to build on the introductory Microsoft course skills to prepare for the Microsoft Office Specialist certification exam. This course prepares students for successfully earning up to four Microsoft Office Specialist certifications, including Word, Excel, Powerpoint and Access.

## COMPUTER PROGRAMMING

### 210700 INTRO TO COMPUTER SCIENCE

### 210700B INTRO TO COMPUTER SCIENCE

(Blended Option)

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Initiative**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Information Technology**

This course is designed to teach students the fundamentals of computer programming. Students will learn the skills and concepts of computer science as well as computing. Students will learn to use decision structures, loop structures, and sub procedures. They will learn to format output. This course is designed for the new programmer and will prepare a student to take advanced programming courses.

### 210708 WEB PAGE DESIGN I

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Time Management, Attention to Detail, Problem-Solving Skills**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Information Technology**

Have you ever wanted to create a web page, but had no idea how to do it? In this class, students will work with the dynamic languages of HTML5 and CSS to create their own web pages. Students will learn about color theory and how to make their web pages interactive. Using this knowledge, students will then look at free web design tools online and learn how to customize sites to their specifications.

### 210712 COMPUTER PROGRAMMING: JAVA

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Time Management, Initiative**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Information Technology**

Students will learn to program in Java. This course prepares students for advanced programming development by providing students with a background in object-oriented programming. Students will create programs that are easy to understand, flexible, and reusable in different situations and across many operating systems.

### 210714 AP COMPUTER SCIENCE PRINCIPLES

Semester 1.0 credit 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Time Management, Attention to Detail**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Information Technology**

*Recommended Prerequisite: Successful completion of Intro to Computer Science*

This course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. The course also provides the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

### 210715 AP COMPUTER SCIENCE A

Semester 1.0 credit 11, 12

**Top 3 Skills: Problem-Solving Skills, Time Management, Attention to Detail**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Information Technology**

*Successful completion of Intro to Computer Science required or AP Computer Science Principles*

AP Computer Science A is equivalent to a first-semester college level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing.

## **BUSINESS ADMINISTRATION**

### **210720 INTRODUCTION TO BUSINESS**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Teamwork Skills, Speaking Skills, Attention to Detail**

**Career Pathway: Business Management and Administration**  
**Career Cluster: Business Management**

This is an introductory course in business. The purpose of this course is to develop an awareness and understanding of our market economy, owning a business, operating a business, and career management. The students will examine these roles through various resources within the school and community.

### **210725 PERSONAL FINANCE**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Time Management, Attention to Detail**

**Career Pathway: Business Management and Administration**  
**Career Cluster: Finance**

Have you ever wanted to learn how to make money from money, but did not have the information, tools, or knowledge of where to get started? This course will inform students how individual choices directly affect personal goals and their future. Real world topics covered include income, money management, spending, and credit, as well as saving and investing. Students will design personal budgets utilizing checking and savings accounts, gain knowledge in finance, debt and credit management, investment options and strategies, and evaluate and understand

insurance and taxes. This course will provide a basic understanding for making informed personal finance decisions leading to financial freedom.

### **210726 MARKETING**

#### **210726B MARKETING (Blended Option)**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Teamwork Skills, Speaking Skills**

**Career Pathway: Business Management and Administration**  
**Career Cluster: Marketing Sales and Service**  
*Successful completion of Introduction to Business suggested.*

The first half of this course will provide the student with a basic introduction to the foundations and functions of marketing. In the second half of the course, students will apply these marketing skills to multiple industries. This course is designed for students interested in careers in sales management, public relations, human resources, market research, and advertising.

### **210728 BUSINESS PRINCIPLES AND MANAGEMENT**

Semester 0.5 credits 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Speaking Skills, Initiative**

**Career Pathway: Business Management and Administration**  
**Career Cluster: Business Management**

Students will study the managerial functions of planning, organizing, directing, staffing, and controlling. Students will develop managerial skills in teamwork, motivation, decision making, negotiation, conflict resolution, leadership, and management of change. Students will also discuss major managerial issues taking place in the current business world.

### **210723 ACCOUNTING**

Year 1.0 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Initiative**

**Career Pathway: Business Management and Administration**  
**Career Cluster: Finance**

The first year comprehensive accounting course will give students a thorough background in the accounting procedures and concepts utilized to operate a business entity. Students will learn to interpret and record financial information from business transactions in a professional manner. Students will learn about bank procedures and how to reconcile and manage a checkbook. The course covers the complete accounting cycle and the preparation of end of year work sheets, financial reports and closing entries. This course provides students with a sound background for employment in the business community or to pursue further study in business.

### **210724 ADVANCED ACCOUNTING**

Year 1.0 credit 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Initiative**

**Career Pathway: Business Management and Administration**  
**Career Cluster: Finance**

*Prerequisite: Students must have taken course 210723 Accounting.*

Advanced Accounting further acquaints the student with the use of business records needed for the interpretation of financial data.

Thorough coverage of advanced topics such as inventory methods, plant assets, notes, and receivables, among others, help to develop a student's analytical and interpretive skills. This course is beneficial for students who plan an accounting or business major in college.

Students will also learn to complete accounting transactions on the computer using accounting software.

### **210736 COST ACCOUNTING**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Initiative**

**Career Pathway: Business Management and Administration**  
**Career Cluster: Finance**

*Prerequisite: Successful completion of Accounting I.*

Cost Accounting will focus on product expenditures and how product costing has an impact on financial statements. Topics will include the evaluation of business and financial data to make profit-maximizing decision, ethics and corporate social responsibility. Discussion also covers the role of accountants in decision making, cost behavior, cost planning and control and costing methods such as: standard costing, budgeting and inventory valuation.

## **APPLIED ENGINEERING**

Applied Engineering is an organization of experiences designed to assist the formation of concepts and development of insights into technology. The experiences are grouped in three major categories: Applied Materials, Computer Technology, and Visual Communications.

### **VISUAL COMMUNICATIONS**

Visual Communications in Applied Engineering is based on three-dimensional computer aided design, game design and audio/video production. The three-dimensional entry-level CAD course, Intro to CAD, covers two major areas: Engineering and Architecture. The upper level courses, which focus on one of these areas, can be taken multiple times.

### **210800 INTRODUCTION TO CAD**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Engineering and Engineering Technology**

This is a basic course in three-dimensional computer aided design (CAD). Basic math skills, precision measurement, and manipulative skills

are developed by means of creating engineering and architectural models. Computer Aided Machining (CAM) and 3D printing will also be introduced. Skills learned in this class will be applied in all Applied Engineering classes. **To Be Noted:** This course is strongly recommended prior to students taking any Applied Engineering materials courses.

### **210801 ENGINEERING VISUAL CAD**

Semester 0.5 credit 9, 10, 11, 12

This course may be taken multiple times.

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Teamwork Skills**

**Career Pathway: Science Technology Engineering and Math**

**Career Cluster: Engineering and Engineering Technology**

*Prerequisite: Course 210800.*

This class will be helpful to students who plan a career in engineering and/or manufacturing. Included are part and assembly design, two-dimensional print reading and creation, Computer Aided Manufacturing and 3D printing. Multiple areas of industry and technology are studied. Three-dimensional CAD and CAM technologies will be used to complete projects in this course.

### **210802 ARCHITECTURAL VISUAL CAD**

Semester 0.5 credit 9, 10, 11, 12

This course may be taken multiple times.

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

**Career Pathway: Science Technology Engineering and Math**

**Career Cluster: Construction and Architecture**

*Prerequisite: Course 210800*

Students taking this course will advance in the architectural design field by practicing building techniques from foundation to finished home. Students will also learn the proper use of materials, code compliance, overall form and function, and production of large format floor plans and elevations. Three-dimensional CAD technologies will be used to complete projects in this course.

### **210803 AUDIO/VIDEO PRODUCTION I**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Teamwork Skills, Initiative**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Communication Arts**

This is an entry-level course in production of media for video and the web. This class will focus on the use of the computer for video editing, effects generation, and animation. The use of cameras, computer recording/editing software, microphones, lighting, audio, and video mixers will be covered. It is also mandatory that students demonstrate responsibility and maturity in content and equipment operation to continue in the program.

### **210804 AUDIO/VIDEO ENGINEERING**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Teamwork Skills, Initiative**

**Career Pathway: Science Technology Engineering and Math**

**Career Cluster: Engineering and Engineering Technology**

Live production and studio production are used to support student understanding and application of audio and video physics, project management, and career exploration and preparation. Course work will directly support AGTV. Engineering for audio and video is a viable career path and knowledge in this area is useful for any career involving technology.

### **210805 AUDIO/VIDEO PRODUCTION II**

**210805B AUDIO/VIDEO PRODUCTION II** (Blended Option)

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Teamwork Skills, Initiative**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Communication Arts**

*Prerequisite: 210803 Audio/Video Production I (Formerly Multimedia Production)*

In this class students will work on independent projects and be available to take on projects

that assist staff of Avon Grove Schools, businesses, non-profits, and others in need of services in the community. Competencies would focus on project management, directing, story creation, monetization scenarios, and video in education

### **210808 INTRODUCTION TO AGRICULTURE**

Semester 0.5 credit 9,10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Teamwork Skills**

**Career Pathway:** Science Technology Engineering and Math  
**Career Cluster:** Engineering and Engineering Technology

Introduction to Agriculture will focus on local, national, and global agriculture and how it affects every aspect of our lives. Topics will include production agriculture, horticulture, animal science, agricultural engineering, and agricultural construction. Students will use science, technology, engineering, and math skills in order to complete hands-on projects, class discussions, lectures, and community improvement projects.

## **APPLIED MATERIALS**

Applied Materials is a study of materials as they exist in the natural environment and how these materials are transformed through extraction, fabrication, manufacturing, and construction into human-made consumable products within the program. Activities provide experiences fundamental to good conservation practices, experimentation, testing, use, and analysis of materials. *Students taking Advanced Metal first semester are assigned to 210831, second semester to 210832. Fine Woodworking first semester is 210821, second semester is 210822.*

### **210820 INTRODUCTION TO NON-METALLIC MATERIALS**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Time Management, Problem-Solving Skills**

**Career Pathway:** Science Technology Engineering and Math  
**Career Cluster:** Engineering and Engineering Technology

Using hand and power tools, students will produce an individual required project the first marking period. The students will then be allowed to design or select a project that utilizes CAM for the second marking period. Instruction will be given on proper and safe use of tools. Basic material construction and joinery techniques will be stressed. Students are to wear safety glasses at all times and are responsible for the expense of materials.

### **210821 ADVANCED NON-METALLIC MATERIALS (Fall)**

### **210822 ADVANCED NON-METALLIC MATERIALS (Spring)**

Semester 0.5 credit 9, 10, 11, 12

This course may be taken multiple times.

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Teamwork Skills**

**Career Pathway:** Science Technology Engineering and Math  
**Career Cluster:** Engineering and Engineering Technology

*Prerequisites:* A minimum grade of C in 210820.

First Semester is 210821, second semester is 210822.

Students will be allowed to design or select projects. Emphasis on advanced techniques and time management will be stressed. Traditional design as well as contemporary developments including large format CNC will be covered. Students are to wear safety glasses at all times and are responsible for the expense of materials.

### **210823 PRODUCTION TECHNOLOGY**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Teamwork Skills, Time Management, Attention to Detail**

*Prerequisite:* 210820

**Career Pathway:** Science Technology Engineering and Math  
**Career Cluster:** Manufacturing

This course is a systematic study of common production materials and manufacturing processes. In this course students will develop an understanding of manufacturing production and management by forming a "corporation",

selecting and designing a project, and producing that project as a group using mass production techniques.

### **210824 HOME PLANNING AND MAINTENANCE**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Teamwork Skills**

*Prerequisite: 210820.*

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Construction and Architecture**

The purpose of this course is to make an educated housing consumer of the student. This course is designed to prepare students to competently assist in planning for the construction or renovation/expansion of a home. The course will then focus on repairs and preventive maintenance of the structure and all major subsystems.

### **210830 BASIC METAL TECHNOLOGY**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Engineering and Engineering Technology**

This course is designed to give students a basic understanding of engineering concepts, materials, tools, and procedures used in metalworking technology. Students will have the opportunity to use Computer Aided Machining (CAM), providing a firm foundation for further study of machine tools processes. Safety precautions are highlighted. Required projects are assigned. Students are responsible for the expense of all materials and are to wear safety glasses at all times. This course is a required introduction to Advanced Metal Technology.

### **210831 ADVANCED METAL TECHNOLOGY**

(Fall)

### **210832 ADVANCED METAL TECHNOLOGY**

(Spring)

Semester 0.5 credit 9, 10, 11, 12

This course may be taken multiple times.

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Engineering and Engineering Technology**

*Prerequisite: A minimum grade of "C" in 210830.*

First semester is 210831, second semester is 210832.

In learning about metal processes and machines, students cover planning, safety, occupations, operational methods including CAM, tools, and measurement. Math and science are correlated throughout. Not only are the various manipulative processes explained, but also principles of good design and consumer knowledge. There is individual student project selection with instructor approval. Students are responsible for the expense of all materials. Project required.

## **COMPUTER TECHNOLOGY**

These classes provide students with skills based on technology driven by computer hardware and software.

### **210840 COMPUTER ENGINEERING**

Semester 0.5 credit 9, 10, 11, 12

This course may be taken multiple times.

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

**Career Pathway: Science Technology Engineering and Math**  
**Career Cluster: Engineering and Engineering Technology**

*Prerequisites: Student may not have any prior computer-related disciplinary referrals.*

This course is designed to give students hands on experience with Arduino, Raspberry Pi, circuit boards, electricity, desktop/laptop, computer hardware, network design, 3D Printer hardware/software. The course is recommended for students who have postsecondary plans in the Information Technology or Electrical/Electronic Engineering areas.

### **210841 ROBOTICS ENGINEERING**

Semester 0.5 credit 9, 10, 11, 12

This course may be taken multiple times.

**Top 3 Skills: Problem-Solving Skills, Initiative, Teamwork Skills**

**Career Pathway: Science Technology Engineering and Math**

**Career Cluster: Engineering and Engineering Technology**

This is an entry level course in the design and manufacture robotic devices. Students will be introduced to engineering concepts in electrical, pneumatic, and mechanical applications. Students will design robotic parts using CAD software and machine parts using conventional and CNC machines. Students will learn what constitutes a robot in its function, travel, and design; and manufacture a robot to perform a task.

### **210842 COMPUTER GAME DESIGN I**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

**Career Pathway: Science Technology Engineering and Math**

**Career Cluster: Engineering and Engineering Technology**

*Prerequisites: Student may not have any prior computer-related disciplinary referrals.*

Using game programming software, students will design educational and entertainment games. In addition to the core programming skills students will develop; related academic skills such as math and physics for motion, English for plot development, and the arts for content development will also be incorporated into the class.

### **210843 COMPUTER GAME DESIGN II**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Initiative, Rising to the Challenge**

**Career Pathway: Science Technology Engineering and Math**

**Career Cluster: Engineering and Engineering Technology**

Students would develop additional skills and competencies in the topics of game design, graphic design in games, monetization

scenarios, and gamification of education. Two capstone projects would be completed. This course goes a level beyond the existing game design course in rigor, challenges and expectations.

### **210844 AVIATION PRINCIPLES AND FAA 107 DRONE CERTIFICATION**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Initiative, Rising to the Challenge**

**Career Pathway: Science Technology Engineering and Math**

**Career Cluster: Engineering and Engineering Technology**

Students will study the principles of flight for fixed and rotary wing aircraft. Based on knowledge of general aviation principles, students will follow a course of study designed to prepare them to become an FAA-certified drone pilot by taking the part 107 exam at age 16. Study of regulations and safe operation of UAS (Unmanned Aircraft Systems or Drones) in US airspace is the content of this exam. Students interested in careers in aviation operations and design are encouraged to enroll in this course.

## **ART**

The Art Department recognizes the overwhelming need for artists and designers in today's innovative workforce. We are committed to providing the students of Avon Grove High School the opportunity to develop artistically. Our goal is to create an atmosphere where new ideas, experimentation and discovery regularly take place. A variety of media and techniques are explored throughout the art curriculum, as well as an aesthetic appreciation of historical and current works in art and design.

### **210900 INTRODUCTION TO STUDIO ARTS**

Semester 0.5 credit 9, 10, 11, 12

#### **Top 3 Skills: Problem-Solving Skills, Attention to Detail, Taking Initiative**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Visual Arts

*This course is a prerequisite to 210901, 210902, 210903 and 210960. Students interested in pursuing a career pathway in art should take this course in their freshman year.*

This course introduces students to the elements of two-dimensional design through the processes of drawing and painting. A strong emphasis is placed on the mastery of materials and techniques. Artistic media may include graphite, charcoal, oil pastels, pen and ink, watercolor and acrylic paint. Art criticism and aesthetics are introduced through the study of art history, and as an assessment of class projects. After successful completion of this course, students have the option of selecting from the list of advanced studio courses.

### **210901 DRAWING I**

Semester 0.5 credit 10, 11, 12

#### **Top 3 Skills: Attention to Detail, Problem-Solving Skills, Speaking Skills**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Visual Arts

*Prerequisite: successful completion of 210900. Students who have chosen a career pathway in fine arts should plan to take this course upon successful completion of Introduction to Fine Arts.*

This course will provide students with in-depth instruction on the design elements and techniques needed to successfully compose two-dimensional compositions. The emphasis of this class will be based on drawing from life to develop keen observational skills. Materials such as pencil, pen and ink, charcoal, and pastels will be used to complete drawings related to illustration, portraiture, still life, and perspective..

Art history is presented through visual references, films, and classroom discussion.

### **210902 DRAWING II**

Semester 0.5 credit 10, 11, 12

#### **Top 3 Skills: Attention to Detail, Rising to the Challenge, Time Management**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Visual Arts

*Prerequisite: successful completion of 210901. Drawing I*

This course can be taken upon successful completion of Drawing I. Instruction of this course will expand on the skills acquired in Drawing I, with an emphasis on drawing from direct observation and the figure. Students will have the opportunity to develop individualized art concepts using diverse drawing media to create a series of drawings. Additional drawing will introduce students to a variety of artistic techniques such as Japanese ink. Contemporary and historical references will be presented throughout this semester course.

### **210903 PAINTING**

Semester 0.5 credit 10, 11, 12

#### **Top 3 Skills: Attention to Detail, Time Management, Initiative**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Visual Arts

*Prerequisite: successful completion of 210900. Students who have chosen a career pathway in fine arts should plan to take this course.*  
Students taking this course may work with watercolor and acrylic paint to develop their painting skills and knowledge of color theory. Design and composition will be emphasized. The history of art including the painting styles and techniques from various artists and cultures will be reflected upon.

### **210904 PAINTING II**

Semester 0.5 credit 10, 11, 12

#### **Top 3 Skills: Attention to Detail, Time Management, Initiative**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

*Prerequisite: successful completion of 210903.*

Students who enroll in this course should be serious about pursuing a career in the arts. In Painting I, we just scratched the surface. Building on previous knowledge in color theory and basic technical skills, Painting II will be the perfect place for you to explore new ways to apply paint and layer textures. Glazing in layers, Plein Air Impressions, and oil painting techniques will be included in this course. Larger canvases and longer project time will offer you ways to stretch out and reach heightened levels of your artistic capability. Through your painting, you will hone in on personalized artistic vision. Class critique discussions and deeper exploration of the conceptual meaning of your artwork will be an important aspect of how we grow as artists.

### **210905 PRINTMAKING**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Initiative**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

Printmaking is an art form that has been explored by artists for centuries. Venture into the rich history of printmaking as well as discover art from modern day printmakers. Each printmaking process has its own unique blend of creative techniques and results. In this class, you will explore the following processes: Monoprinting, Relief Printing, Chine-Colle', Sun Printing, Screen Printing, and Collagraph. Use the screen printing technique to create custom designed t-shirts. Learn and use the elements of art and principles of design to create your own unique, successful compositions. Students wanting to take this course again for credit must have received a "B" or better in the first course. Students will work more independently while learning more advanced printmaking techniques.

### **210910 INTRODUCTION TO PHOTOGRAPHY**

Semester 0.5 credit 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Teamwork Skills**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

Students taking this course will learn the fundamental techniques of black and white photography including camera operation, film development, processing, and printing through classroom and darkroom assignments. An overview of the history and evolution of photography will be covered through a variety of presentations and projects. Working individually and collaboratively, student will gain an understanding of the elements and principles of photography to create successful photographic compositions.

### **210911 DIGITAL PHOTOGRAPHY**

Semester 0.5 credit 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Taking Initiative**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

This is an entry-level course for students interested in learning the basics of photography using digital cameras and the computer or "digital darkroom." Students will develop technological as well as conceptual skills to make successful color and black and white images. Students will use the computer as a tool to compose, manipulate and retouch their images using Adobe Photoshop and Adobe Lightroom. Course projects will address a variety of themes/subject matter including photography as a vehicle for positive social change. It is mandatory that students demonstrate responsibility and maturity in content and equipment operation to continue in the program.

## **210912 ALTERNATIVE PROCESSES IN DARKROOM PHOTOGRAPHY**

Semester 0.5 credit 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Teamwork Skills**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Visual Arts**

*Prerequisite: successful completion of 210910.*

Students taking this course can use the processes and techniques they have mastered in the introduction to Darkroom Photography course to broaden their understanding of photography as a form of communication. Students will investigate applications and methods such as cyanotype, double exposure, image transfer, alternative negatives and hand applied emulsion to enhance their contemporary vision. In addition, students will have the opportunity to propose a specific process that they would like to explore and include as part of their personalized curriculum.

## **210920 THREE DIMENSIONAL FORMS IN ART**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Teamwork Skills, Time Management**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Visual Arts**

Students taking this course will construct and sculpt three-dimensional forms through the exploration of traditional and contemporary materials and methods. Plaster, wood, metal, paper, cardboard, recyclables, and found objects will be turned into sculptures using modeling, carving, casting, and fabrication processes. Students' original designs and interpretations are encouraged through daily work and group discussions.

## **210921 GRAPHIC DESIGN I**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Time Management, Problem-Solving Skills**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Communication Arts**

Students will learn to produce designs for publication using a variety of materials and techniques. Students will be introduced to Adobe Photoshop and InDesign software. Assignments are centered on the advertising field including, but not limited to, corporate identity, packaging, magazine campaign, promotional posters, and catalog design. Compositional layout, typography, and presentation will be emphasized in both hands-on projects and computer designs.

## **210922 GRAPHIC DESIGN II**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Time Management, Problem-Solving Skills**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Communication Arts**

*Prerequisite: successful completion of 210921.*

This is an advanced level course with Graphic Design I as a prerequisite. 2-D and 3-D artwork are centered around the aesthetic and creative disciplines of graphic design. Students will have a working knowledge of Adobe Photoshop and InDesign. Multi-application assignments using Macromedia programs will be used to refine and expand their design and presentation skills.

## **210923 MACROMEDIA ANIMATE**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Time Management, Problem-Solving Skills**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Communication Arts**

*Prerequisite: 210922.*

This course will provide students with a basic learning knowledge of the Macromedia Animate program to enable them to create simple animation and moving graphic images as "seen on TV" today. Combined with Adobe Photoshop, video clips, and sound effects, the student will create their own animated pieces complete with their own "production company logo." The finished product will be multi-media

pieces that the student may save to digital storage devices and include in their portfolio when they are applying to college.

### **210924 MIXED MEDIA**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Rising to the Challenge, Problem-Solving Skills, Attention to Detail**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Visual Arts

Through the investigation of current and historical works created by artists using mixed media, students will explore the combined use of drawing, painting, collage, printmaking, bookmaking, and assemblage. Materials such as aluminum, paper, paint, pen and ink, plastic, fabrics, recycled, and found objects will be combined by students to create their own two- and three-dimensional works of art. Students are encouraged to creatively combine these materials and techniques to create artwork that explores perceptual as well as conceptual issues and ideas.

### **210925 ADOBE ILLUSTRATOR**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Creativity, Problem-Solving Skills, Attention to Detail**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Communication Arts

This course will introduce you to the most recent Adobe Illustrator interface, workspace, tools and techniques. If you enjoy working on the computer and using the creative side of your brain, Adobe Illustrator is for you. Adobe Illustrator is part of Adobe's Creative Suite and is used by artists and graphic designers, both for print and web. With Adobe Illustrator, you can create designs that could be used for children's book illustrations, greeting cards, posters, shoe designs and more. Since Adobe Illustrator uses vector based art, logos, typographical treatments, product design and patterns for fashion design are easy to accomplish and have the ability to scale to any size. Learning

how to use Adobe Illustrator will increase your marketability as an artist and/or graphic designer. Students wanting to take this course again for credit must have received a "B" or better in the first course. Students will use learned skills while experimenting with more advanced illustrator techniques.

### **210926 VISUAL STORYTELLING, CARTOONING AND STORYBOARD**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Rising to the Challenge, Problem-Solving Skills, Attention to Detail**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Communication Arts

Walt Disney once said, "It was all started by a mouse." What he meant was that the popularity of his cartoon character, Mickey Mouse provided the fund to produce other projects which helped him to build his empire. This course does not promise all that, but it is a beginning. The student taking this course may be an artist, but does not need to be. By combining the best of both worlds through team work, collaboration and the sharing of ideas and talents, we will create and produce our work. Bring your imagination and springboard into the world of visual storytelling through cartooning and storyboard development.

### **210930 CERAMICS**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Time Management, Attention to Detail**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Visual Arts

Ceramics is an entry level course focusing on the design and production of pottery. This course provides instruction in the historical and contemporary hand-building techniques of ceramics to create functional objects. Students will explore various surface decoration techniques including texturizing, glazing, and hand-painting.

### **210931 DESIGN AND CREATION OF JEWELRY**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Time Management**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

Students taking this course will be introduced to traditional and contemporary methods of making jewelry. Each product offers students the opportunity to design and create their own jewelry through the application of annealing, soldering, filing, sanding and polishing techniques. Designs will be created through the manipulation of sterling silver, copper, brass and alternative metals.

### **210932 WEARABLE ART**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Time Management, Attention to Detail**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

Art as it functions in our daily lives takes many forms. Fashion or wearable accessories including hats, shoes, eyewear, wallets, bags and jewelry serve us every day in a variety of ways. In creating wearable art, artists must take into consideration its purpose and conformity to the human figure and lifestyles. Students taking this course will have the opportunity to design and create wearable art and products that serve a functional role. Presentations and guided learning will familiarize students in construction techniques with an emphasis on design, function, and sustainability through the use of repurposed and recycled materials.

### **210933 CERAMICS II**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Time Management, Attention to Detail**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

Ceramics II is an advanced course that focuses on alternative techniques to produce clay. Students will experiment with and explore new processes while balancing and building on techniques learned from prior classes. The class will focus on student exploration of concepts to build creative thought and problem solving.

### **210950 \*AP ART HISTORY**

Year 1.0 credit 11, 12

**Top 3 Skills: Writing Skills, Initiative, Time Management**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

This course reflects a college-level introductory art history survey course and will prepare students for the advanced placement exam in Art History. Course instruction is designed to provide an understanding of various art forms from all geographical areas of the known world. Students will critically analyze the major forms of art from past and present cultures by analyzing the visual form, the contextual history, the content of the work, and the function of the work.

### **210960 PORTFOLIO PREPARATION**

Semester 0.5 credit 11, 12

**Top 3 Skills: Initiative, Attention to Detail, Time Management**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Visual Arts**

*Prerequisite: A minimum of a "B" in 210900 and 210901, or permission from instructor.*

*This course may be taken twice. Students who have chosen a career pathway in art should take this course in the fall semester of their junior and/or senior year.*

Students taking this course will develop a portfolio of their artwork, which is a critical part of the application process for the post-secondary fine art programs. There will be focus on observational drawings of the figure, still life, and architecture. Conceptual works in painting, sculpture, mixed media, and photography are

also encouraged to reflect individual styles and preferences. Group discussions and critiques will help students to refine their work and prepare for a portfolio review at the school(s) of their choice.

## FAMILY AND CONSUMER SCIENCES

### 211000 LIFE AND SCHOOL

Semester 0.5 credit 9, 10

**Top 3 Skills: Problem-Solving Skills, Rising to the Challenge, Initiative**

**Career Pathway: Human Services**

**Career Cluster: Counseling and Personal Care**

Through a significant number of blended experiences, you will develop skills to help you navigate the school experience. You will learn about your strengths, learning styles, and personality and how these relate to your life and possible career choices. Other topics include communication and peer relationships, understanding consumer rights and responsibilities, and how nutrition is important to health, wellness, and learning in school.

### 211001 LIFE AND INDEPENDENCE

Semester 0.5 credit 11, 12

**Top 3 Skills: Problem-Solving Skills, Initiative, Rising to the Challenge**

**Career Pathway: Human Services**

**Career Cluster: Counseling and Personal Care**

Through a significant number of blended experiences, this course will help to develop clear goals and objectives for successfully completing high school and preparing you for living and working in today's world. You will learn to build strong transferable employee skills, balance personal, educational, and career responsibilities. You will learn to gain knowledge of how to balance personal income, manage future finances, and develop wise consumer strategies.

### 211004 CHILD DEVELOPMENT

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Writing Skills, Teamwork Skills, Initiative**

**Career Pathway: Human Services**

**Career Cluster: Education**

What does it take to be a great caregiver? It is the hardest job one could ever have and the most rewarding. It takes readiness, commitment, nurturing, and love. Experience what it is like to be the parent of a newborn baby. Our computerized babies need to be fed, burped, rocked, and diapered. Learn how to help children develop physically, intellectually, emotionally, and socially. This is an excellent class for those interested in careers in teaching, health, or human services or anyone who plans to be a parent someday.

### 211005 HOUSING AND DESIGN

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Initiative, Attention to Detail**

**Career Pathway: Science Technology Engineering and Math**

**Career Cluster: Construction and Architecture**

You will learn what makes up a community. What is zoning? What are the advantages and disadvantages of renting or buying housing? How is housing acquired? What are the different types of housing? How do you tell one style house from another? You will learn how a house is constructed. Through various projects you will create living spaces that meet the needs of individuals or families. You will draw floor plans, create space plans, select furniture, fabrics, lighting, and accessories and determine a color palette for your design. Take this class if you are interested in a career in construction, architecture, design, or real estate.

### 211006 TEXTILES AND CLOTHING I

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Time Management, Problem-Solving Skills**

**Career Pathway:** Arts A/V Technology and Communications  
**Career Cluster:** Visual Arts

In this class you will learn to operate a sewing machine and use a commercial pattern to create a garment you can wear. You will learn valuable sewing skills such as how to sew on a button and hem by hand. Learn about different fibers that are made into yarns and threads which are then made into different fabrics that are either woven or knitted. Create original fashion designs on croquis (pre-drawn figures). If you have an interest in a career in fashion design or merchandising, textile design, tailoring, or just want to be able to make your own clothes, this class is for you. Each student must provide his/her own material for the class.

### **211007 TEXTILE AND CLOTHING II**

### **211008 TEXTILE AND CLOTHING II**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Time Management, Problem-Solving Skills**

**Career Pathway:** Arts A/V Technology and Communications  
**Career Cluster:** Visual Arts

*Prerequisite: Grade of C or better in Textiles and Clothing I.*

This course is intended for students with a desire to learn about fashion history and current fashion trends. Students will advance their knowledge of fabric use and clothing construction. Learning activities will include hands-on experience using more advanced fabric and construction techniques. It will prepare those students interested in a career in the Fashion and Fashion Design, Fashion Merchandising, Retail Management, Tailoring or Textile Science.

### **211020 BAKING**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Teamwork Skills, Time Management**

**Career Pathway:** Health Services

**Career Cluster:** Agriculture Food and Natural Resources

Experience in food preparation encourages lifelong success and pleasure in cooking and eating. Plan, prepare, and evaluate bakery food products—egg foam and milk-based desserts, quick breads, yeast breads, pies, cakes, and cookies. In addition to practical lab experiences, you will use classroom reference materials to understand and reinforce the theories of various food preparation activities. Learning activities also include videotaped and real-life demonstrations. Elect Baking if you are planning a career in the food service industry, restaurants, or bakeries.

### **211021 ENCOUNTERS WITH FOOD**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Teamwork Skills, Time Management**

**Career Pathway:** Health Services

**Career Cluster:** Agriculture Food and Natural Resources

Discover the many different ways food can be prepared for optimal health and enjoyment. Plan weekly food preparation activities by selecting recipes of grains, vegetables, fruits, dairy products, and meat dishes. The course content includes exploration of the dietary guidelines in addition to daily food intake planning. Elect this course if you are considering a career in food service or nutrition-related fields.

### **211022 SPORTS NUTRITION AND WELLNESS**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Teamwork Skills, Time Management**

**Career Pathway:** Health Services

**Career Cluster:** Agriculture Food and Natural Resources

Enhance general health and wellness, and promote athletic performance by learning to use food as fuel. After analyzing your current diet and activity levels, make personal goals to eat and exercise appropriately. Expect to learn about the importance of fueling with correct proportions of carbohydrates, protein, and fats. Become a savvy consumer when making food

choices. Prepare foods to improve performance and promote wellness. Develop an original fitness program as the final project.

### **211023 FOOD AND CULTURES**

Semester 0.5 credit 10, 11, 12

**Top 3 Skills: Attention to Detail, Teamwork Skills, Time Management**

**Career Pathway: Health Services**

**Career Cluster: Agriculture Food and Natural Resources**

Would you like to prepare and sample a wide variety of appetizing foods as you learn to appreciate the cultures of other countries and ethnic groups? Are you interested in health and wellness? Food and Cultures is a course designed for you. It will be valuable to you if you are considering a career in social work, international business, nutrition, or the food service industry. There will be a significant number of blended experiences offered throughout this course.

## **MUSIC**

### **212000 CONCERT BAND**

Year 1.0 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Teamwork Skills, Time Management**

*Prerequisite: Must play a band instrument.*

*Incoming freshmen and newcomers must pass an entrance audition.*

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Performing Arts**

The Concert Band is open to those students who have attained a minimal high school level of proficiency on their instrument as determined by the entrance audition. Students in Concert Band, combined with those in Wind Ensemble, will comprise the Marching Band. The Marching Band begins in the spring before the new school year and performs in parades and festivals throughout the area in the fall. The Concert Band presents public concerts at Christmas, in February, and in the spring.

### **212001 WIND ENSEMBLE**

Year 1.0 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Teamwork Skills, Time Management**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Performing Arts**

*Prerequisite: Audition required.*

The Wind Ensemble is a select performance group of limited instrumentation made up of the most advanced players. Performances will include, but not be limited to, the same Christmas, February, and spring concerts at which the Concert Band performs. Students in Wind Ensemble, combined with members of the Concert Band, will comprise the Marching Band which begins in the spring before the new school year. Opportunities exist for outstanding students to participate in PMEA District, Region, and All State events.

### **212020 CONCERT CHOIR**

Year 1 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Teamwork Skills, Initiative**

**Career Pathway: Arts A/V Technology and Communications**

**Career Cluster: Performing Arts**

The Concert Choir is open to male singers in grades 9-12 and females in grades 11 and 12. Concert Choir will prepare and perform a variety of repertoire of different periods, styles, and languages as well as study vocal technique, music theory, and sight singing. Performances will include the winter and spring concerts, and adjudication festival on the Music Department spring trip and other community performances. Students will attend one small group lesson once a week in addition to daily rehearsals. Rehearsals and concert performances outside of the school day are required.

### **212021 AVON GROVE CHORALE**

Year 1.0 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Teamwork Skills, Rising to the Challenge**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Performing Arts**

*Prerequisite: Audition required.*

Students are selected for this choir based on an audition for the director and audition panel. Auditions are held in June for the following school year. Mid-year transfers must wait for the end of the school year to audition for the next year. Chorale will prepare and perform a variety of repertoire of different periods, styles, and languages as well as study more advanced vocal technique, music theory, and sight singing. Performances include school events, the winter and spring concerts, and adjudication festival on the Music Department spring trip and other community performances. Students will attend one small group lesson once a week in addition to daily rehearsals. Rehearsals and concert performances outside of the school day are required.

### **212022 BEL CANTO**

Year 1.0 credit 9, 10

**Top 3 Skills: Attention to Detail, Teamwork Skills, Initiative**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Performing Arts**

Bel Canto is open to all female singers in grades 9 and 10. Bel Canto will prepare and perform a variety of repertoire of different periods, styles, and languages as well as study vocal technique, music theory, and sight singing. Performances will include the winter and spring concerts, and adjudication festival on the Music Department spring trip and other community performances. Students will attend one small group lesson once a week in addition to daily rehearsals. Rehearsals and concert performances outside of the school day are required.

### **212030 PIANO FUNDAMENTALS**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Attention to Detail, Initiative, Problem-Solving Skills**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Performing Arts**

Learn how to read music and play the piano! In this course you will learn beginning music theory concepts and how to apply that to simple piano music. Learn elements of music theory such as rhythm, melody, harmony, form, key signatures, notation, performance, scales, pitch, dynamics, and tempo. Students will be expected to practice to achieve keyboard proficiency and complete music theory assignments.

### **212031 MUSIC THEORY I**

Semester 0.5 credit 9, 10, 11, 12

**Top 3 Skills: Problem-Solving Skills, Attention to Detail, Rising to the Challenge**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Performing Arts**

This course is a prerequisite for AP Music Theory. Prior to taking this course, students should have experience reading music notation and instrumental or vocal performance experience. In this course, a classical approach is used to help the student learn the basics of writing music from key signatures through simple harmonic and melodic writing. Students planning to continue their music education in college will benefit from this course.

### **212033 \*AP MUSIC THEORY**

Year 1.0 credit 10, 11, 12

**Top 3 Skills: Initiative, Problem-Solving Skills, Time Management**

**Career Pathway: Arts A/V Technology and Communications**  
**Career Cluster: Performing Arts**

*Prerequisite: Completed Music Theory I with a B or higher.*

This course will develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The achievement of this goal will be best promoted by integrated approaches to the student's development of aural skills, sight-singing skills, written skills,

compositional skills, and analytical skills through listening exercises, performance exercises, written exercises, creative exercises, and analytical exercises. This course will be very valuable to students interested in majoring or minoring in music.

### **212040 STRING ORCHESTRA**

Year 1.0 credit 9,10,11,12

**Top 3 Skills: Teamwork Skills, Attention to Detail, Problem-Solving Skills**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Performing Arts

*Prerequisite: Must be able to play an orchestral string instrument (violin, viola, cello, double bass).*

The String Orchestra is offered to students who have basic high school string proficiency. Students will explore and heighten their ensemble performance practice and individual skills through the performance of various genres of music in combination with different string techniques and exercises. The String Orchestra presents concerts in the winter and spring as well as an adjudication performance designed

for the Music Department spring trip. Attendance and participation is required for scheduled weekly lessons as well as the winter and spring concerts. Participation in the Music Department spring trip is highly encouraged. Opportunities for extra small ensemble performances as well as District and Regional Competitions are available.

### **212063 GUITAR**

Semester 0.5 credit 9,10,11,12

**Top 3 Skills: Attention to Detail, Initiative, Time Management**

Career Pathway: Arts A/V Technology and Communications  
Career Cluster: Performing Arts

Students will learn to read music and understand concepts of music theory through guitar instruction. This course is designed to provide beginning guitarists with the tools to continue their playing after the course has ended, either through private instruction from an outside source or through self-teaching. Prior playing experience and owning a guitar are not necessary to take the course.