Course Selection Booklet 2025-2026

Moshannon Valley School District

4934 Green Acre Road
Houtzdale, PA 16651
814-378-7616
www.movalley.org

Board Approved:
December 4, 2024

Dear Parent/Guardian:

The scheduling process is an important step in meeting your student's needs. It is necessary for you to become involved in the process. Please sit down with your student and look at the curriculum and course offerings and make scheduling decisions based on what your student needs for the future.

Timelines are extremely important in scheduling. In order to efficiently schedule all students in the Moshannon Valley Junior-Senior High School, the following procedures have been developed and will be closely followed.

Scheduling Timelines and Procedures

- Students will receive scheduling materials and instruction in the classroom setting**.**
- Students will be given a deadline for returning scheduling materials. If materials are not received by the deadline, the counselor will choose the students' schedule for the following year.
- Any schedule changes or requests for changes must be made by contacting the guidance office **no later than the end of the first week of the 2025-2026 school year**. Requested schedule changes after the first week of school require consultation with the principal, guidance counselor, parent(s) and the affected teachers and the meeting does not guarantee a change in schedule will take place. **NO required course will be dropped or changed after the 1st week of school without administrative approval.** Failing grades, not "liking a class" or a teacher, or failing to achieve honor roll will **not** be considered as valid reasons for dropping a course.

If a student fails a course, it will be rescheduled for the next school year. Students making up classes through cyber/summer school will have their schedules adjusted ONLY after the passing grade is received by the Moshannon Valley School District.

Again, we emphasize the importance of the initial scheduling process at home. Please discuss future plans with your student and schedule according to his/her future needs. This should be done considering the best interests of the individual and not what others are doing.

If you have any questions concerning the scheduling timeline or procedure, please contact the guidance office at (814) 378-7616 extension 2009 for Mrs. Kitko.

Credits Required for Promotion

Seventh Grade

Students must earn a minimum of five (5) credits in 7th grade or they will be retained.

The following credits and courses must be passed:

3 of 4 possible credits in Math, Science, English, Social Studies

The following courses will be scheduled for seventh grade.

- Assigned Math Class (Pre-algebra 7)
- 357 Supplemental Math 7
- 107 Language Arts
- 227 World Geography
- 407 Physical Science
- 737 Health
- 717 Physical Education
- 117 7th Literary Strategies
- 767 Consumer Science
- 627 Introduction to Music 7
- 507 Computer Science Discoveries
- 567 Discovering Agriculture

Students may choose band or chorus. Students interested in both may take independent Chorus.

Eighth Grade

Students must earn a minimum of five (5) credits in 8th grade or they will be retained.

The following credits and courses must be passed:

3 of 4 possible credits in Math, Science, English, Social Studies

The following courses will be scheduled for eighth grade.

- Assigned Math Class (Algebraic Concepts, Algebra 1 Part 1, Algebra 1)
- 358 Supplemental Math 8!
- 108 Language Arts
- 238 Civics
- 408 Life Science
- 228 Career Exploration
- 708 Physical Education
- 608 Art
- 118 8th Literary Strategies
- 568 Discovering Agriculture
- 430 STEM 101

Students may choose band or chorus. Students interested in both may take independent Chorus.

A student will not be retained in 7th grade **or** 8th grade for more than one (1) year. A student may be socially promoted from 7thto 8th grade and also from 8th grade to 9th grade.

Graduation Requirements (9-12)

In order to graduate from the Moshannon Valley Junior-Senior High School, a student must earn **25** credits and pass all state and local requirements, including the state-mandated graduation project.

- ✔ 4 Credits are needed to enter 10th Grade.
- ✔ 10 Credits are needed to enter 11th Grade. ** 12 credits are needed to attend CCCTC
- ✔ 17 Credits are needed to enter 12th Grade.
- ✔ There is no social promotion at the high school level.

A student must obtain the following credits in these courses during the grades of 9, 10, 11, and 12.

Credits Courses/Subject Areas

4 Language Arts (English)

4* Mathematics

4 Science

4 Social Studies

2.5 Health, Physical Education

.5 Family Life Skills

2 Arts or Humanities or both:

Examples: Art, Music and Foreign Languages

Electives – As needed to meet graduation requirements.

* Students passing Algebra I in 8th grade may use the course to satisfy a math credit.

Students must choose 8 credits each year and are allowed only one study hall per day.

Beginning with the graduating class of 2017, successful completion of the state-mandated Keystone Exams will be required for graduation.

Students will be required to pass exams in core academic subjects in order to receive a high school diploma in Pennsylvania.
We will conduct the Keystone Exams during the winter and spring. For more information contact the office.

College Preparatory

Required Courses - College Prep

Subject	9th Grade	10th Grade	11th Grade	12th Grade
Language Arts	Language Arts- 109	Language Arts- 110	Language Arts- 111 AP Language Arts-113	Honors Language Arts -112 AP Language Arts-114
Social Studies	US History I- 209	US History II -210 AP US History-232	World Studies -211 AP US History-232 AP US Government -245	Government/ Economics -212/ AP US Government -245
Math Track 1	Algebra 2 A- 339	Geometry A- 340	Pre-calculus-360	Honors Calculus -362 AP Calculus-367
Math Track 2	Algebra 1 Part 2 319	Algebra 2A-339/ Algebra 2A 10-321	Geometry A- 340	Pre-calculus-360
Science	Biology- 429	Academic Chemistry 431	**Choose at least 1 credit:** Honors Physics -432 ; Honors Chemistry- 463; Honors Anatomy & Physiology- 453;	**Choose at least 1 credit:** Honors Physics -432 ; Honors Chemistry 463; Honors Anatomy & Physiology- 453; AP Chemistry-442 AP Biology
Arts and Humanities	Spanish I - 661 OR French I - 651 Music-628 Family and Consumer Science-769	Spanish II - 662 OR French II - 652 Career Exploration II 140	Family Life Skills- 771	
Health/ Physical Education	Phys. Ed 9 -709 Health -739	Phys. Ed. 10 - 710 Traffic Safety - 740	Phys. Ed 11 - 720	Phys. Ed 12 - 720

College Prep students will need to take a minimum of: 2 of the following lab sciences- Biology 429, Chemistry 431, Honors Physics, Honors Anatomy & Physiology, Honors Chemistry, AP Chemistry; Algebra I, II, and Geometry; and 2 years of the same foreign language in order to meet college entrance requirements.

Students planning on attending college should begin looking at specific requirements for individual colleges and majors as soon as possible. Some majors and /or colleges have requirements beyond what is listed above.

For example: In order to be accepted into a professional nursing major (RN) a student must pass Academic Chemistry (431) with a grade of C or better by the end or their Junior year. And most engineering majors require a minimum of Precalculus and Honors Physics.

NCAA Requirements

Students who are planning to play a Division I or Division II sport at the college level MUST be aware of the NCAA regulations regarding course work and transcripts. Student-athletes must have a transcript on file with the NCAA by the end of their junior year.
The NCAA requires students to take 16 approved core courses for Division I and 16 approved core courses for Division II in order to play as freshman. Visit the NCAA website: **eligibilitycenter.org** or talk to your coach or guidance counselor to find out more about approved core courses and how to register with the NCAA.
Not having the right courses WILL affect your ability to play sports at the college level.

Earning College Credits in High School

The Moshannon Valley School District has a policy in place that allows juniors and seniors to enroll in college-level courses during the school year. There are two ways in which students can earn credits:

1. Students can be awarded college credit for some of our high school courses:

663 Spanish III course can receive 3 credits as Spanish 112 from St. Francis University

653 French III course can receive 3 credits as French 112 from St. Francis University

664 French IV course can receive 3 credits as French 201 from St. Francis University

367 Advanced Placement Calculus AB can receive 4 credits as CM 117 from

Mount Aloysius College

463 Honors Chemistry and can receive 4 credits as CH 101 from Mount Aloysius

432 Honors Physics can receive 4 gen science credits as SC 105 from MountAloysius

352 Advance Placement Statistics MAT 200 Probability and Statistics from Penn Highlands

370 College Algebra MAT145 College Algebra from Penn Highlands

Advanced Placement (AP) Courses Students can receive college credit at most universities and colleges in the United States by passing the AP exam with a score of 3 or higher. Some schools do require a score of 4. Subjects can include: Language, Literature, US History, US Government, Pre-Calculus, Calculus, Statistics, Psychology, Biology and Chemistry

2. Students can also earn credits by taking college courses at Commonwealth University, or Penn State University.

Qualified students are able to earn college 3 credits and meet graduation requirements at the same time. Moshannon Valley High School currently has agreements with Lock Haven University for our students to take courses at a reduced tuition rate. To be eligible students must have a G.P.A. of at least 87% and have parent and guidance permission. Students must also meet the requirements of the college they plan to attend. Students are required to be up to date in meeting graduation requirements and must continue to maintain passing grades in their high school courses. Parents are responsible for course fees, tuition and transportation to the college.
Students may sign up for a minimum of 3 (three) credits each semester and spend ½ the day at the high school and ½ day at the college. Or students can sign up of on-line courses through the university and be scheduled study hall time at the high school. There is no minimum number of on-line credits required. Students planning to take college courses in the fall of 2022 should begin exploring the process now. It is important to plan ahead since coordinating school and college schedules can be difficult.

Moshannon Valley High School has a program for students to participate in hybrid learning environment. This potentially allows students to take classes on-line that would not be typically offered at MV. Students interested should speak to the guidance counselor or principal for more information.

Required Courses – Career Prep

Subject	9th Grade	10th Grade	11th Grade	12th Grade
Language Arts	Language Arts TP- 109	Language Arts TP- 120	Language Arts TP -121	Language Arts TP- 122
Social Studies	US History I -209	US History II -210	World Studies- 211	Government/Economics -212
Math	Algebra 1 Part 2 -319/ Algebra 1B- 330	Algebra 2 B- 349/ Algebra 2A 10-321	Geometry A 340/ Geometry B- 341	Financial Literacy 364
Science	Biological Science- 420	Integrated Science-423	Applied Chemistry – 421 **OR** Biotech 419	Environmental Science 411 **OR** Biotech 419
Arts and Humanities	Music -628 Family and Consumer Science-769	Career Exploration II -140	Family Life Skills -771	
Health/ Physical Education	Phys. Ed 9 - 709 Health 739	Phys. Ed. 10 - 710 Traffic Safety 740	Phys. Ed 11 - 720	Phys. Ed 12 - 720

Required CCCTC Schedule

Subject	9th Grade	10th Grade	11th Grade	12th Grade
Language Arts	Language Arts TP -119	Language Arts TP -120	Language Arts TP- 121	Language Arts TP -122
Social Studies	US History I -209	US History II -210	World Studies- 211	Government/ Economics -212
Math	Algebra 1 B -330	Algebra 2 B -349	Geometry B- 341	Financial Literacy 364
Science	Biological Science -420	Integrated Science-423		Environmental Science 411 **OR** Biotech 419 or
Arts and Humanities	Music -628 Family and Consumer Science-769	Career Exploration II- 140	Family Life Skills 771	
Health/ Physical Education	Phys. Ed 9 - 709 Health 739	Phys. Ed. 10 - 710 Traffic Safety 740	Phys. Ed. 11-720	
CCCTC			3 credits AM + lunch and travel	3 credits PM + lunch and travel

Career and Technology Education

The Moshannon Valley School District is a member of the Clearfield County Career and Technology Center. Our students may elect a program of occupational education and training at the Career and Technology Center. If accepted, they attend one-half day sessions at Moshannon Valley High School and one-half day sessions at the Career and Technology Center during their eleventh and twelfth grade year [with the exception of the Cosmetology Course students who will attend a three-year program beginning in the tenth grade.]

Students apply during the tenth grade and are notified of their acceptance the same year. The state-mandated courses are taken at Moshannon Valley and the electives at the Career and Technology Center. A student must have passed all required subjects in 9th and 10th grade and have a minimum of 12 credits in order to attend CCCTC.

CCCTC students have full schedules. There is no room in the curriculum to make up failed courses. Students who fall behind schedule in their major courses will have to make up that work through summer courses or they cannot graduate on time. CCCTC students are required to complete one of the following- PE11 OR PE 12.
CCCTC students will follow a tech prep curriculum. They may request college prep classes but it is not always possible to fit them into the schedule.

The areas of study at the Career and Technology Center are as follows:

AM/PM
810/850 Medical Office Assistant
811/851 Collision Repair Technology
812/852 Automotive Mechanics Technology
813/853 Carpentry and Building Construction Technology
804 Cosmetology 1 (**p.m. only**)
814/854 Cosmetology 2 (**a.m. only**) and 3 (**p.m. only**)
815/855 Diesel Equipment Maintenance
816/856 Digital Media Arts
817/857 Diversified Occupations/Cooperative Education
818/858 Drafting and Design
820/860 Electrical Occupations
821/861 Culinary Arts and Food Management
822/862 Health Occupation Technology
823/863 Metal Machine Technology
824/864 Masonry
825/865 Welding & Metal Fabrication Technology
826/866 Information Technology
827/867 HVAC/R

Career-Technical Courses

2021-2022 Secondary Course Offerings

Clearfield County Career and Technology Center

1620 River Road – Clearfield, PA 16830
(814)765-5308 – www.ccctc.edu

The Clearfield County Career & Technology Center offers career-oriented, multiyear sequences of courses that integrate core academic knowledge with technical and occupational knowledge to provide students with pathways to postsecondary education and careers. Knowledge is gained through theory lessons, state-of-the-art labs, on-the-job-training, and industry certification obtainment. Our programs of study provide a wide range of learning experiences reaching career clusters in manufacturing, food production, building construction, business, healthcare, hospitality, and transportation.

Education in a career and technical education school offers a lifetime of opportunity and economic stability. Our mission is to train students for the workforce with an education that gives them an opportunity to grow.

Participating Public School Districts & Private Schools

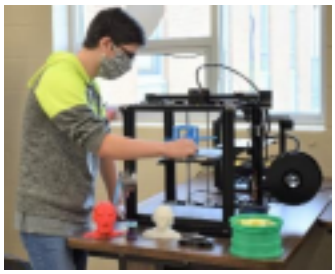
- Clearfield Alliance
- Clearfield
- Curwensville
- Moshannon Valley
- Philipsburg-Osceola
- Soaring Heights
- West Branch

The National Technical Honor Society (NTHS) is an organization dedicated to the ideals of honesty, service, leadership, and skill development among America's future workforce. To be considered for membership, students must achieve a 93% GPA in their program area at CCCTC and an 85% GPA at their high school. Prospective members must also have a 95% attendance rate. Students are nominated for NTHS membership by their program instructors. Nominated students who meet the highest standards in each of the identified areas are recommended for induction.

Skills USA is a student organization at CCCTC. With more than 280,000 student and instructor members nation-wide, Skills USA is an applied method of instruction designed to prepare America's high-performance workers in career and technical programs. The organization provides quality education experiences for students in areas including leadership, teamwork, citizenship and character development. Skills USA builds and reinforces self-confidence, work attitudes and communication skills. Members are encouraged to develop into total quality workers and individuals with the highest ethical standards, superior work skills, commitment to life-long education and pride in their work. Skills USA members are also encouraged to support the local community with community service projects. CCCTC Skills USA members compete in their program studies at a district, state, and national level at competitions.

NOCTI is the end-of-the-year skills assessment required to be taken by all program completers. Completers received the Pennsylvania's skills certificate and are eligible for Free Soar College Credits.

Students who enroll at CCCTC in a Program of Study may qualify for several free college credits in their major at participating colleges across Pennsylvania. To qualify for SOAR college credits, students must be enrolled in a program of study and pass their NOCTI exam at the end of the 2-year program



Auto Mechanics Technology: CIP Code 47.0604 2 Year Program

The Automotive Mechanics Technology Program prepares students for careers as automotive technicians and service personnel or post-secondary education. The program includes instruction in the automotive engine, automotive engine systems, lubrication, cooling, fuel, exhaust, electrical and electronics systems, and emission systems, drive trains, chassis systems, and auxiliary systems. Students can earn college credits through dual enrollment with Penn College and can earn Soar College Credits. **Certifications earned:** NOCTI Certificate, OSHA

Certification, 900 Hours of Instruction Certificate, PA Auto Inspections Certificate, SP2, MACS 609A AC Card.

Carpentry and Building Construction: CIP Code 46.0201 2 Year Program

The Carpentry and Building Construction Technology Program prepares students for careers in residential and light commercial construction, apprenticeships, or continuing education at a post-secondary institution. The program provides intensive safety training for all hand held and stationary construction power equipment. Areas of instruction include, site selection and building permits, foundations and forms, floor framing, wall framing, roof framing, and roof coverings, exterior finish, insulation and interior finish. Students can earn college credits through dual enrollment with Penn College and can earn Soar College Credits. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate.

Collision Repair Technology: CIP Code 47.0603 2 Year Program

The Collision Repair Technology Program provides students with the skills, knowledge, motivation, and work ethic to begin working in entry-level collision repair positions or to continue education at a post-secondary institution. The main components of the program are appropriate use of hand and power tools, welding, minor body repairs, and interior trim and upholstery. Students study major body repairs, glass door service, electrical systems, refinishing, and cost estimating. Students are also instructed on frame equipment, front-end alignment, and computer training. Students can earn college credits through dual enrollment with Penn College and can earn Soar College Credits. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, PA State Inspection License, ICAR Certification, and ASE Student Certification.

Cooperative Education/Diversified Occupations: CIP Code 32.0105 1 Year Program

This program is for seniors only. Co-Op/DO combines classroom instruction with workplace experience; the Diversified Occupations program provides a cooperative arrangement between the school and employers where the student receives general education instruction in the school and on-the-job training through at least 15 hours of employment in business/industry. CAPSTONE: Think of this as the finishing touch to the CCCTC program the student is already involved in. This experience gives the student the chance to go to work instead of attending CCCTC class. The students “cap off” their in-school training with related job experience at an approved training site. DIVERSIFIED OCCUPATIONS (D.O.) A training opportunity for a student that is not already attending the CCCTC. This experience gives the student a chance to receive credit toward graduation while working part of the school day. The student gains work experience in a career area that they have an interest in but is not offered at CCCTC. 4 Easy Steps to apply…Step 1. Be employed at a job with at least 15 hours a week. Step 2. Get a Co-Op Enrollment Application from you high school counselor. Step 3. Complete Application. Step 4.

Return Application to CCCTC Co-Op Coordinator. Co-Op/Do Applications can occur at ANY time and be added at any time during the senior year. Students can earn the following certifications: NOCTI Certificate, OSHA Certification, and 450 Hours of Instruction Certificate.

Cosmetology: CIP Code 12.0401 3 Year Program

A career-opportunity in cosmetology has endless benefits. You can do anything from working in a salon to owning your own day spa! This fulltime, daytime course prepares you for the PA State Board of Cosmetology exam. Topics included in this course include but are not limited to: Spa Treatments, Color Analysis, Advanced Skin Care, Haircutting and Styling, Permanent Waving, Hair Coloring and High-lighting, Manicures and Pedicures, Scalp Treatments, Hair Straightening, Facials, Safety, and Sanitation and Disinfection. **Certification earned:** NOCTI Certificate, OSHA Certification, 1,250 Hours of Instruction Certificate, and PA Cosmetology License (additional cost).

Culinary Arts & Food Management: CIP Code 12.0508 2 Year Program

The Culinary Arts and Food Management Program prepares students for careers in food production, baking, and restaurant services, or for continuing education at a post-secondary institution. In the production area, instruction is provided on the basics of food preparation including, but not limited to, salads, sandwiches, soups, sauces, meats, and vegetable cookery. In baking, instruction includes breads, cakes, cookies, pies, choux paste and other specialty desserts, and cake decorating. In the restaurant services component, students are taught how to
greet, serve, and prepare food for the customer in a restaurant laboratory setting. Emphasis in the second year of the program is placed on safety and sanitation. Students receive classroom theory and laboratory experience using the latest methods and techniques. Students can earn college credits through dual enrollment with Penn College and can earn Soar College Credits. Culinary has a 1:1 articulation agreement with Pittsburgh Technical Institute for 8 college credits. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, ProStart, and ServSafe Certification.

Diesel Equipment Maintenance: CIP Code 47.0613 2 Year Program

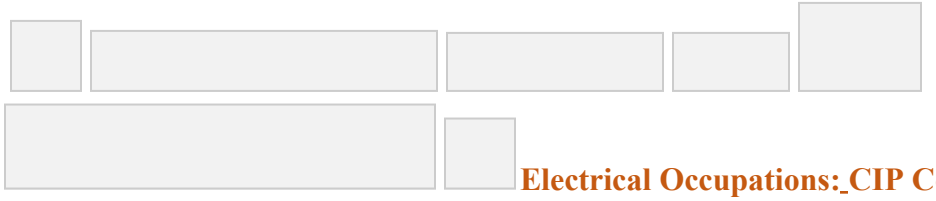
The Diesel Equipment Maintenance and Repair Technology Program prepares students for careers in the diesel field as a mechanic's helper or for continuing education at a post-secondary institution. The program starts with principles of internal combustion engines and the differences between gas and diesel. Students learn about the electronics, transmissions, differentials, brakes and air systems, and will ultimately overhaul different diesel engines. Students can earn college credits through dual enrollment with Penn College and can earn Soar College Credits. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, PA Auto Inspection and a Class A and B CDL (additional cost).

Digital Media Arts: CIP Code 11.0801 2 Year Program

Do you want to be the next YouTube star? Interested in photography or graphic design? Want to make TV shows or movies? Build websites with rich multimedia and video content? The Clearfield County CTC's new Digital Media Arts program prepares students for work in business and entertainment, shooting and editing photographs, making videos and digital marketing material, and creating websites. The Internet is here to stay and advances in technology make digital media skills an ongoing corporate need. Students use Adobe Creative Cloud software including Photoshop, Lightroom, Dreamweaver, After Effects, Premiere Pro, InDesign, and Illustrator. Students also learn to set up and manage websites using content management systems. Students will learn to build, code, and publish web content in a variety of formats. The Digital Media Arts program is a stepping stone to these potential careers: Graphic & Website Designer • Web Application Developer • Software Developer • Videographer• Computer Programmer • Advertising & Promotions Manager • Radio & TV Reporter, Producer & Editor • Public Relations & Marketing Representative • Digital Illustrator & 3D Animator • Film & TV Special Effects Artist • Digital Photographer • Multimedia & Mobile Application Developer • Digital Communications Specialist. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate

Drafting and Design: CIP Code 15.1301 2 Year Program

The Drafting and Design Program prepares students for careers in drafting, architecture, and architectural engineering or continuing education in related fields. The drafting component of the program focuses on computer- aided drafting utilizing the latest version of AutoCAD and Autodesk Revit. Students in the program have the opportunity to draft a complete set of construction drawings. In doing so, students learn approved construction methods. Students also have the opportunity to work on presentation drawings, which allow them to explore their artistic side through 3D renderings, perspective drawings, sketches, and model building with a 3D printer. The architectural engineering component of the program offers students detailed instruction on many aspects of plumbing systems design, as well as a generalized look at the design and drafting of a building's mechanical systems and electrical layout. Students can earn up to 31 college credits from Pennsylvania Highlands and leave high school with an associate's degree. Students can also earn Soar College Credits. Drafting has a 1:1 articulation agreement with Pittsburgh Technical Institute for 8 college credits. **Certifications earned:** NOCTI Certificate, OSHA Certification, and 900 Hours of Instruction Certificate.



Electrical Occupations:_CIP Code 46.0399 2 Year Program

The Electrical Occupations Program prepares students for careers in the electrical field in the areas of residential, light commercial, and light industrial, or for continuing education at a

post-secondary institution. Areas of instruction include use of hand and power tools, basic electron theory, blueprint reading, motor control circuits, tool and electrical safety, using the national electrical code, conduit bending and introduction to programmable logic controls, single phase and 3 phase transformers. Students can earn Soar College Credits. Electrical has a 1:1 articulation agreement with Pittsburgh Technical Institute for 4 college credits. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of instruction Certificate, CAT 5 Certification, CTECH-Copper based Network Cabling Certification.

Health Occupations Technology: CIP Code 51.0899 2 Year Program

Health Occupations Technology prepares students for careers in a variety of health occupations by focusing on several components, all of which are necessary for success in any health occupation. Students learn basic patient skills that apply to any health-related occupation. Some of these skills include direct patient care, setting up for an exam, performing some basic laboratory tests, and completing some of the necessary documentation and associated clerical work. Medical terminology, the language of the healthcare world is key to the success of the student and is stressed throughout the program in many applications. Anatomy and Physiology which teach a student how the body is put together and how it functions when it is well and demonstrates what happens when disease sets in are also very important in the program. Students can earn college credits from Penn College. Students can also earn Soar College Credits. Health Occupations has a 1:1 articulation agreement South Hills School of Business and Technology for Exemption Testing. Health Occupations has a 1:1 articulation agreement with Pittsburgh Technical Institute for 4 college credits.
Certifications earned: NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, CPR Certification, CNA

Heating, Air Conditioning, Ventilation, Refrigeration: CIP Code 2 Year Program

HVAC/R will prepare students for an entry-level position as an installer, maintenance, or service technician dealing with aspects of the residential and commercial field. This career area is always growing, has great monetary potential, and will always be in demand. Students will become adept at working with specialty tools, pressure/temperature/electrical meters, metal fabricating devices, torches, refrigerants, and live HVAC/R equipment. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of Instruction, Gas Tite Certification.

Information Technology: CIP Code 15.1202 2 Year Program

The Information Technology prepares students for their first step towards fulfilling an IT career in cloud computing, networking, mobility, security or systems administration and/or continuing education at a post-secondary institution. Students will learn computer maintenance, Security,

Networking, Operating Systems, IT Operations, Troubleshooting, and Technical Support. The program takes a broad-spectrum approach to teaching the Information Technology field. Students can earn college credits through dual enrollment with Penn College and can earn Soar College Credits. Information Technology has a 1:1 articulation agreement with Dubois Business College and South Hills School of Business and Technology for Exemption Testing. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, CompTIA IT Fundamentals, and CompTIA A+ Certification.

Masonry: CIP Code 46.0101 2 Year Program

The Masonry and Building Construction Technology Program prepares students for careers in the masonry construction field, apprenticeships, or post-secondary education. There are two elements to the program. The hands-on component of the program provides instruction on block, brick, stone, glass block, concrete, and plastering along with building walls, chimneys, arches, fire-places, and other structures. The theory component of the program includes mortar, chimneys, foundations, fireplaces, arches, estimating, blueprint reading, and safety. Students will complete individual and group projects, which will include written exercises. Students earn college credits from Penn College with enrollment and Soar College Credits. **Certifications earned:** NOCTI Certificate, OSHA Certification, and 900 Hours

Welding & Metal Fabrication Technology: CIP Code 48.0508 2 Year Program

The Welding Technology Program prepares students for careers in welding, construction, and metal fabrication or continuing education at a post-secondary institution to prepare them to become welding inspectors and even welding engineers. Program topics include safe and proper use of welding equipment, welding symbols, reading detailed welding drawings, base metal preparation, Fundamentals & techniques of shielded metal arc welding (SMAW), oxy-acetylene welding, brazing and cutting, Fundamentals& techniques of gas tungsten arc welding, plasma arc cutting, & quality fundamentals and technical gas metal arc welding. Students can earn college credits through dual enrollment with Penn College and can earn Soar College Credits. Welding has a 1:1 articulation agreement with Pittsburgh Technical Institute for 3 college credits. **Certifications earned:** NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, and AWS 1.1 Certification.

Saint Francis University has paired up with CCCTC to offer a FREE college credits articulation agreement. Any CCCTC student that completes their training at CCCTC will be issued 27 college credits at no cost! Students can then attend Saint Francis University where they can earn one of three associate degrees: [27] · Associate of Applied Science in Engineering/Mechanical Technology · Associate of Applied Science in Human Resource/Computer Technology · Associate of Applied Science in Health

More college credit opportunities at CCCTC. Visit www.ccctc.edu/highschool-programs and click on the college credit opportunities link.

CTC Technical Mathematics

Associated PIMS # 02153
Local Course Number
MAT 510-Junior Year
MAT 520-Senior Year

Academic Credit Available-
.5 Credits- Junior Year
.5 Credits- Senior Year
(Could be offered as elective credit for grade 9 and 10 at risk students)

Technical Mathematics courses extend students' proficiency in mathematics, and often apply these skills to technical and/or industrial situations and problems. Technical Mathematics topics may include but are not limited to rational numbers; systems of measurements; tolerances; numerical languages; geometry; algebra; statistics; and using tables, graphs, charts, and other data displays. Technology is integrated as appropriate. This course will be integrated into associated CTC courses and co-taught by the CTC English and Content instructors.

CTC Applied English and Communications
Associated PIMS # 01156

Local Course Number
ENG 510- Junior Year
ENG 520-Senior Year

Academic Credit Available-
.5 Credits- Junior Year
.5 Credits- Senior Year
(Could be offered as elective credit for grade 9 and 10 at risk or 10th grade cosmetology students)

Applied English and Communications courses teach students communication skills—reading, writing, listening, speaking—concentrating on "real-world" applications. These courses usually emphasize the practical application of communication as a business tool—using technical reports and manuals, business letters, resumes, and applications as examples—rather than emphasize language arts skills as applied to scholarly and literary materials. This course will be integrated into associated CTC courses and co-taught by the CTC English and Content instructors.

AGRICULTURE

567 Discovering Agriculture 7 .25 credits
In this 9 week long course, 7th grade students will explore the basics of agriculture. Units will include introduction to agriculture, plant science, wildlife and forestry, animal science, and agricultural mechanics. This will mostly be a project or activity based class where students will have to apply their classroom knowledge to complete the assignments. Students are general employment skills in the 9 weeks.

568 Discovering Agriculture 8 .5 Credits
This 8th grade semester-length course, students explores the basics of Agriculture. Topics of study will include basics of agriculture, plant science, wildlife and forestry, FFA/Leadership (including public speaking), agricultural mechanics, and animal science. FFA and SAE (Supervised Agricultural Experiences) are integral parts of a total Agricultural Education program are discussed. Students will learn more when they take an agriculture course in 9th-12th grades when state FFA membership starts.

587 Agriculture Mechanics I . 5 credit Grade: 9th-10th
This semester length course introduces students to careers and skill acquisitions in the following areas: plumbing, concrete and masonry, electricity, small engine maintenance, woodworking and emerging agricultural technologies. Students will have to gain classroom knowledge on these subjects before they can visit the shop and apply their knowledge to complete projects. Depending on time, units on welding and hydraulics/power-take-off are studied. Career readiness and workplace disposition are integrated in this course. Supervised Agricultural Experiences (SAE) are a requirement of this course. Enrollment to this course provides membership to the local FFA chapter through which students have the chance to participate in local and state competitions that relate to the course content.

590 Floral Design (Fall Semester) .5 credit Grade: 10-12
Throughout this course, students will demonstrate an understanding of the principles and elements of floral design. Students will prepare flowers and plants for floral arrangements. In addition, students will prepare floral arrangements for special occasions using the principles and elements of design, such as designing single flower boutonnieres to multiple flower arrangements. It will also give students a hands-on opportunity to use their own creativity and artistic abilities in preparing their principles and elements of design. In addition, students will become more familiar with the different aspects in the floral design industry. Supervised Agriculture Experience (SAE) is a requirement of this course. This course is designed as a 10th-12th grade course. Enrollment to this course provides membership to the local FFA chapter through which students have the chance to participate in local and state competitions that relate to the course content.

593 Gardening & Greenhouse Management (Spring Semester) .5 credit
Grade: 9th-12th

Greenhouse Management is an applied-knowledge course designed to prepare students to manage greenhouse operations. This course covers principles of greenhouse structures, plant health and growth, growing media, greenhouse crop selection and propagation, and management techniques. Upon completion of this course, proficient students will be equipped with the technical knowledge and skills needed to prepare for further education and careers in horticulture production. Supervised Agriculture Experience (SAE) is a requirement of this course. This course is designed as a 10th -12th grade course. Enrollment to this course provides membership to the local FFA chapter through which students have the chance to participate in local and state competitions that relate to the course content.

561 Animal Science I

Grade: 10-11 .5 credits This semester-length course will examine the practical aspects of animal science as it
relates to animal ownership, handling and health. The study of large and small animals is incorporated into this course. Areas to be covered include basic animal information including behavior, health, reproduction (2 species of the class's choice), digestion/nutrition, genetics, and small animals. Students may have the opportunity to work with and handle live animals during laboratory exercises. There may be dissections as well. This course is recommended for any student interested in basic animal care. Supervised Agriculture Experience (SAE) is a requirement of this course. Enrollment to this course provides membership to the local FFA chapter through which students have the chance to participate in local and state competitions that relate to the course content. This course is a prerequisite to Animal Science 2.

562 Animal Science II .5 credit 11th-12th grade

You must have passed Animal Science 1 to take this course. This semester-length course examines the practical aspects of animal science as it relates to animal ownership and husbandry. Areas to be covered include basic animal information, reproductive and digestive systems in 5 main livestock species, external anatomy, skeletal systems, muscular systems, meat cuts, Expected Progeny Differences (EPDs), livestock and horse evaluation, and farm/animal management scenarios. Students may have the opportunity to work with and handle live animals during laboratory exercises. There may be dissections as well. This course is recommended for any student interested in animal systems. Supervised Agriculture Experience (SAE) is a requirement of this course. Enrollment to this course provides membership to the local FFA chapter through which students have the chance to participate in local and state competitions that relate to the course content.

563 Wildlife and Natural Resources (Fall Semester)
Grade: 10-12 .5 Credits
Students will study wildlife management to gain an understanding of the ecological, physical and environmental concepts pertaining to wildlife management. Students will have the opportunity to study the ecology of wildlife and make decisions on appropriate means to manage these populations. Students are expected to identify the most common fish, mammals, insects, reptiles, amphibians, and birds of Pennsylvania. They will also study forestry, where they will learn the trees of PA, forest management, and about the lumber industry. Supervised Agriculture Experience (SAE) is a requirement of this course. This course is designed as a 10th-12th grade course. Enrollment to this course provides membership to the local FFA chapter through which students have the chance to participate in local and state competitions that relate to the course content.

564 FFA/Leadership (Semester)
Grade: 9-12 .5 Credits
This course is semester-length, and can be scheduled as a full-year on alternating days of the cycle and will examine important aspects of the National FFA Organization and Leadership Skills. The purpose of this course is to accent Agriculture Education and the FFA organization in developing young people to be premier leaders with a vision. Critical thinking and evaluation skills will be an important aspect of the curriculum. Just as important will be the incorporation of articulation skills, both written and verbal. Students will develop and enhance their leadership skills through self-enhancement, goal setting, cooperative learning, speech proficiency, parliamentary procedure, mock career development events, and presentations. To maximize critical thinking skills, current events in agriculture are used as a decision-making forum for discussion. This process will incorporate both verbal and written skills. Supervised Agriculture Experience (SAE) is a requirement of this course. This course is designed as a 9th-12th grade course. Enrollment to this course provides membership to the local FFA chapter through which students have the chance to participate in local and state competitions that relate to the course content.

ARTS

608 8th Gr. Art .5 Credits This is a required course for eighth graders which explores a variety of art materials and techniques. Students will be introduced to the Elements of Art and experiment with both 2 dimensional and 3 dimensional mediums including drawing, painting, sculpture, printmaking, ceramics, collage, and more. Students will be expected to develop their own original ideas while learning proper care and maintenance of their supplies. Additionally, students will be introduced to some famous artists and art history topics and be given thought provoking prompts to reflect on the work they create.

622 Intro to Art .5 Credits This class is a follow up from the required 8th Grade class. In this course, students will explore a wide range of media and techniques, from both a historical and contemporary perspective, which will build on their existing foundation of art knowledge. Students will engage in the art-making process, which may include 2 dimensional drawing and painting mediums as well as 3 dimensional sculpture and ceramic mediums. This course will also focus on the elements and principles of art and design and how to analyze and apply them. Student artists reflect on their own artwork and that of others through critical analysis to achieve artistic goals related to craftsmanship and technique.
This course is a prerequisite for all other Art courses.

624 Crafts and Creativity .5 Credits This is a half year course and is open to students who have successfully completed Intro to Art. This course will explore a variety of different fine craft techniques that can be used to make everyday, and even functional objects. The course will touch on 2 dimensional art, 3 dimensional art, and everything in between such as weaving, fibers, textiles, jewelry, metal, functional ceramics, and more. This course is designed to give students creative freedom and explore the world of fine crafts in a way that best fits them.
This course may be taken two times.

609 2D Art .5 Credit This is a half year course and is open to students who have successfully completed Intro to Art. In this course students will apply their previous art knowledge and begin to focus heavily on techniques used in 2 dimensional arts such as drawing, painting,
printmaking, and collage. Students will be able to refine their skills in those mediums and be prompted to create their own original work and think about their artistic process.
This course is a prerequisite for Advanced 2D Art.

625 3D Art .5 Credits This is a half year course and is open to students who have successfully completed Intro to Art. In this course students will apply their previous art knowledge and begin to focus heavily on techniques used in 3 dimensional art such as ceramics and sculpture. Students will be able to refine their skills in those mediums and be prompted to create their own original work and think about their artistic process.
This course is a prerequisite for Advanced 3D Art.

626 Advanced 2D Art .5 Credits This is a half year course following 2D Art and is open to junior and senior students who have successfully completed Intro to Art and 2D Art. In this course students will have the opportunity to take what they have learned in previous classes and apply it to their own original 2 dimensional artworks. This course is designed to be student-led and give students independence to work at their pace on their own creative ideas. Students will be able to complete projects they are personally interested in that suit them and their style
This course may be taken multiple times.

602 Advanced 3D Art .5 Credits This is a half year course following 3D Art and is open to junior and senior students who have successfully completed Intro to Art and 3D Art. In this course students will have the opportunity to take what they have learned in previous classes and apply it to their own original 3 dimensional artworks. This course is designed to be student-led and give students independence to work at their pace on their own creative ideas. Students will be able to complete projects they are personally interested in that suit them and their style
This course may be taken multiple times.

CAREER EDUCATION

228 Career Exploration .5 Credit This course is designed to help 8th grade students explore the world of work and aligns to the introduction to the career-focused graduation project. Students will be completing interest surveys, exploring careers, and listening to speakers from different occupational areas. Students will have a better understanding of what will be available in the 21st century workforce. This class meets 6 days a cycle for one semester.

140 Career Exploration II .25 Credit This subsequent course builds on the Career Exploration I course, which students completed in 8th grade. The course is designed to assist students in completing key components of the graduation project, while preparing students to further explore and
determine their post-secondary schooling and career employment options. Specific assignments may include the following: on-line/book research for careers of interest, comparison of careers of interests, education/career timelines, resume, references, interview question development/preparation, budget survey.

The course is scheduled for students in 10th grade and meets 3 days a cycle for one semester.

CONSUMER SCIENCE

767 Family/Consumer Science .25 Credit This 7th grade class is a scheduled elective offering that meets for 9 weeks. The course begins with a short unit on manners and respect. It will be followed by a unit on money including learning about paycheck vocabulary, checking accounts, savings accounts and budgeting. A project on budgeting will be completed for the graduation portfolio. Nutrition will then be the focus with topics such as the five food groups, good health practices, reading labels, and good choices in food preparation. Students will also learn basics in the kitchen such as measuring ingredients accurately, reading a recipe and following directions, learning about cooking terms, and safety and sanitation in the kitchen.

769 Family/Consumer Science .5 Credit This 9th grade class begins with clothing care including washing, ironing, mending and introduction to the sewing machine. Students will complete a small sewing project. Then students will study child development and childcare with an emphasis on babysitting. Finally, the students will learn about good nutrition, label reading, understand the nutrients and then utilize safe and nutritious cooking practices in the food lab.

771 Family Life Skills .5 Credit This semester course will be required by all juniors to meet F & CS standards for high school students. This course includes the four academic standards for Family and Consumer Science: 1) Financial and Resource Management; 2) Balancing Family, Work and Community Responsibility; 3) Food Science and Nutrition; and 4) Child Development. In Financial and Resource Management, students will complete a unit emphasizing spending plans, consumer rights and responsibilities, income, purchasing, investing, building a strong credit history and financing a house and car. In Balancing Family, Work and Community Responsibility, the students practice practical reasoning skills, team building, family functions, the family life cycle, and communication. In Food Science and Nutrition, students will learn about food supply and handling and nutrition throughout the lifespan. In Child Development, students learn about children's developmental stages, health and safety

783 Success in the Home .5 Credit This semester elective course is intended for 10th and 11th graders who have successfully completed the Family and Consumer Science course in 7th grade. Students will learn to successfully cook and bake various recipes needed as young adults. They will analyze food costs, and design various meal services. In addition they will receive instruction in sewing and mending. They will study a unit on interior design and will have an opportunity to design a room. Students will learn about home ecology and ways they can make their homes "green".

784 Child Development .5 Credit This semester elective class for seniors will give students the ability to understand children, parenting and themselves. It will address the developmental stages of children, theorists, parenting skills, and the role of families. Careers involving children will also be discussed.

FOREIGN LANGUAGES

651 French I l Credit This course will introduce students to the French and Francophone cultures. Although all four skills, reading, writing, listening and speaking are included, basic communication skills are emphasized. Topics of discussion include likes/dislikes, school, purchasing school supplies, sports and activities, and ordering a light meal in a café. The text is supplemented by audio/visual recordings as well as internet activities.

652 French II 1 Credit French II students must have successfully completed 651 French I. This course is designed to continue the student's introduction to French and Francophone culture, and further develop the student's communication skills. Topics of discussion include famous monuments, camping, cooking and dining, clothing and shopping, household chores, and places in town. Discussion of what the student did in the past is introduced. Vocab and grammar is presented in themed units, which include authentic resources. The text is supplemented by audio/visual recordings as well as internet activities.

653 French III 1 Credit French III students must have successfully completed 652 French II. In French III students will continue their study of French language and Francophone culture, and further develop their reading, listening, speaking and writing skills. Students will learn how to express themselves in various past tenses, the present and the future. They will be able to talk about traveling holidays, shopping for and preparing food, their daily routine, childhood, and the countryside. The class relies heavily on student participation, and includes individual, partner and group work, grammar and translation activities, projects, speaking activities, and reading comprehension activities. Students will use the *Bien Dit* Level 2 book, as well as a variety of authentic resources such as video clips, movie sections, recipes, poems, folktales, and excerpts from the book *Le Petit Prince.* *This course may be offered as an independent study in special circumstances.*

654 French IV 1 Credit French IV students must have successfully completed 653 French III with a final grade of 84% or higher. With increased ability to use French as a means of communication, reading is done for increased knowledge as well as for pleasure. Readings include fairy tales, fables, poems, and excerpts from contemporary French literature as well as articles written for French adolescents. Vocab topics include school, nature and outdoors, workforce, storytelling, health and wellness, family and community. Students will use *Bien Dit* Level 2 and Level 3 books.Grammar will focus on appropriate tenses to describe the past, present, and future, and the introduction of various compound tenses and the subjunctive mood. The text is supplemented with audio/visual recordings as well as internet activities. *This course may be offered as an independent study in special circumstances.*

655 French V 1 Credit As the student continues to develop his/her ability to communicate and function in the francophone world, he/she will develop his/her knowledge of that world past and present. Readings include excerpts from French literature, history, sciences and arts. With the understanding that accuracy increases the ability to be understood, the student will continue to develop his/her knowledge of French grammar. The text will be supplemented by French TV, radio, feature length films, as well as internet research. Prerequisite is French IV with an 85% average or higher. *This course may be offered as an independent study in special circumstances.*

661 Spanish I 1 Credit **All Spanish courses are offered virtually through World of Learning and consist 2 live session days a week and 3 work completion days a week.*

662 Spanish II 1 Credit **All Spanish courses are offered virtually through World of Learning and consist 2 live session days a week and 3 work completion days a week.*

663 Spanish III 1 Credit **All Spanish courses are offered virtually through World of Learning and consist 2 live session days a week and 3 work completion days a week.*

664 Spanish IV 1 Credit **All Spanish courses are offered virtually through World of Learning and consist 2 live session days a week and 3 work completion days a week.*

665 Spanish V 1 Credit **All Spanish courses are offered virtually through World of Learning and consist 2 live session days a week and 3 work completion days a week.*

Special Note: *Juniors and Seniors can take Spanish III, and/or French III, French IV and receive college credit from St. Francis University. There is a fee for college credit. See the instructor for details.*

LANGUAGE ARTS

107 Language Arts-7th Grade 1 Credit In Grade 7, the StudySync curriculum takes students through literary and informational texts that explore individuals facing crucial decisions, learning from their responses, and becoming a better version of themselves. Through these readings, students will learn and practice grade appropriate reading comprehension skills and grammar skills. Extended writing assignments could include Narrative, Literary Analysis, Argumentative and Informative.

117 Literary Strategies & Practices: 7th Grade 1 Credit The course emphasizes the improvement of each student's overall reading ability, plus an upgrading of their study skills. The areas of concentration are: (1) content area reading (competent use of textbooks); (2) study skills; (3) comprehension improvement; (4) formal writing (research style term papers) and extemporaneous writing; and emphasizing reading as a form of entertainment and desirable activity.

118 Literary Strategies & Practices: 8th Grade .5 The course emphasizes the improvement of each student's overall reading ability, plus an upgrading of their study skills. The areas of concentration are: (1) content area reading (competent use of textbooks) fiction and nonfiction; (2) study skills; (3) comprehension improvement; (4) formal writing (research style term papers) and extemporaneous writing; and emphasizing reading as a form of entertainment and desirable activity. Class only meets every other day for SY

108 Language Arts - 8th Grade 1 Credit The 8th Grade Language Arts curriculum consists of a new computer-based program known as Studysync. Studysync is a comprehensive core literacy program designed to meet the rigorous academic needs of today's classroom. The program consists of six different thematic units which range from short stories, informational text, poetry and excerpts from several popular young adult novels. Students are given the opportunity to conduct a first read of each text through independent reading or audio, complete various skill lessons on such topics as figurative language and poetic elements and complete a close read wherein a written response is generated.

109 Language Arts-9th Grade 1 Credit Ninth grade Language Arts will include the study and enhancement of grammar, literature, and composition. Study will include a variety of short stories, plays, classic novels, and contemporary novels including the following: *Romeo and Juliet, Speak, The Pigman, The Scarlet Letter, The Most Dangerous Game, Night,* and *The Gift of the Magi*.

110 Language Arts-10th Grade 1 Credit College Prep - For the college prep student, the tenth grade Language Arts course is a comprehensive program covering grammar, literature, composition, and vocabulary. The focus in grammar will be sentence structure and variety, writing complete sentences and a review of mechanics. Composition will stress the writing process including
prewriting techniques, writing unified and coherent paragraphs and a variety of essays. Expository writing and interpretation of literature is stressed; the following novels are analyzed in class: *To Kill a Mockingbird, Tuesdays with Morrie, The Hunger Games, Heart of Darkness,* and *The Great Gatsby*. Keystone testing preparation is also stressed as part of this curriculum.

120 Language Arts-10th Grade 1 Credit Tech Prep- For the tech prep student, the tenth grade Language Arts course will be a comprehensive program covering grammar, literature, composition, and vocabulary. The study of grammar will include a review of mechanics and application of grammatical principles to writing. Composition will stress the writing process including prewriting, drafting, evaluating and revising and proofreading. Expository writing and interpretation of literature is stressed; the following novels are analyzed in class: *To Kill a Mockingbird, Tuesdays with Morrie, The Hunger Games, Heart of Darkness,* and *The Great Gatsby*. Keystone testing preparation is also stressed as part of this curriculum.

111 Language Arts -11th Grade 1 Credit College Prep - For the college prep student, the eleventh grade Language Arts is a survey of American literature that includes analysis of specific works. Interpretation of literature is stressed; the following novels are analyzed in class: *Animal Farm, Lord of the Flies, The Things They Carried, The Great Gatsby, Catching Fire, Divergent* Composition instruction stresses creativity, organization, and application of grammatical principles. Vocabulary study is directly related to the reading material in class. Grammar is reviewed, particularly pronoun reference, parallel structure, sentence variety, punctuation, and usage. Keystone testing preparation is also stressed as part of this curriculum.

121 Language Arts-11th Grade 1 Credit Tech Prep - For the tech prep student, the eleventh grade Language Arts is a survey of American literature that includes analysis of specific works. Interpretation of literature is stressed; the following novels are analyzed in class: *Divergent, The Old Man and the Sea, Life of Pi, Of Mice and Men, After the First Death, White Fang, and The Glass Menagerie*. Composition instruction stresses creativity, organization, and application of grammatical principles. Vocabulary study is directly related to the reading material in class. Grammar is reviewed, particularly pronoun reference, parallel structure, sentence variety, punctuation, and usage. Keystone testing preparation is also stressed as part of this curriculum.

112 Honors Language Arts-12th Grade 1 Credit College Prep – Twelfth grade Language Arts will include the study of British literature, composition, and college preparation. Study will include a variety of short stories, poems, and classic novels including the following: *Beowulf, A Modest Proposal, The Canterbury Tales, 1984* or *The Picture of Dorian Gray*, and a selection from Shakespeare. Composition will promote the use of critical thinking skills, problem solving strategies about significant societal issues, and analysis of literature read in class throughout a variety of term papers and essays. Students must carry a grade of “C” or better in 111 and/or have passed the Keystone Literature Exam.

122 Language Arts-12th Grade 1 Credit The 12th Grade Tech Prep Language Arts curriculum is designed to allow students an opportunity to explore various pieces of literature, as well as, obtain and complete skills in preparation for life after graduation. During the first marking period, students will draft business letters, write personal resumes and take an active role in the mock interview process as well as complete of real-world forms and applications. . The second marking period will involve a study of the epic, *Beowulf* and various short stories from British Literature, such as *Robin Hood and the Three Squires*. The third marking period will consist of a study of the classic piece, *Gulliver’s Travels*, improvement of proofreading skills and the reading of the popular young-adult novel, *Killing Mr. Griffin* or S. E. Hinton, *That Was Then, This Is Now.* The fourth marking period will consist of an in-depth analysis of informational news utilizing *Newsela* articles along with their role in our society and completion of a “Year in Review” current events project.

113 AP Language and Composition 1 Credit An AP course in English Language and Composition engages students in becoming skilled readers of complex texts written in a variety of rhetorical contexts and skilled writers who compose for a variety of purposes with sufficient richness and complexity to communicate effectively with mature readers. In both their writing and their reading, students should become aware of the interactions among a writer's purpose, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. The primary focus is on nonfiction writing. This course is designed to prepare students for the Advanced Placement English Language and Composition assessment, given in early May. Advanced Placement (AP) credits may be awarded upon completion of the exam. Students and parents are encouraged to check with potential colleges to verify their AP credit policy. The class is primarily recommended for Juniors. Students must carry a grade of "C" or better in 110 or 111 and/or have passed the Keystone Literature Exam. **Additionally, successful completion of summer assignments is a prerequisite for admission to the class. NOTE: Students in AP classes should be aware that there is an increased workload compared to a non-AP class and that this will require reading, annotating, analysis assignments to be completed outside of class as well as during class.**

114 AP Literature & Composition 1 Credit In this course, students will be engaged in the careful reading and study of a variety of authors and genres from diverse literary periods and cultural backgrounds. The literature selected for this course will be of recognized literary merit and based on the recommendations from ETS and the continuous evaluation of texts and the Advanced Placement Examination. Summer reading will be required prior to the school year this class is scheduled. Writing assignments will focus on the critical analysis of literature but will also include exposition and argument. Through such study, students will sharpen their awareness of language and its power as well as their understanding of the writer's craft. This course is designed to prepare students for the Advanced Placement English Literature and Composition Exam, given in early May. College credits may be awarded upon successfully passing the AP exam. Students and parents are encouraged to check with potential colleges to verify their AP credit policy.
Note: AP Literature and Composition is recommended for juniors or seniors. However, exceptions can be made per guidance, teacher, and/or administration recommendation.

NOTE: **Students in AP classes should be aware that there is an increased workload compared to a non-AP class, will require assignments such as reading novels, preparing text or discussion questions, online assignments or writing essays to take place out of class. An average amount of time would be 2-3 hours per week outside of class time. When/if scheduling multiple AP classes, please keep this workload in mind.**

183 Introduction to Mythology & Folklore .5 Credit This course is an elective for sophomores, juniors, and seniors. Within this study, students will explore different theories of the cultural meanings and functions of various myths, making analyses and comparisons along the way. It will use short stories, videos, plays, and poetry to teach the literary content, which will include a variety of the following: various myths from Greek mythology; *Antigone* or *Medea; Doctor Faustus; Inferno; Frankenstein; The Metamorphosis;* and common fairy tales (Grimm and Disney versions).

184 Introduction to Theater & Shakespeare .5 credit This class will expose students to the many aspects of theater and the influence of William Shakespeare. History and the evolution of theatrical productions, Shakespearian plays (tragedy – Hamlet, MacBeath, Othello; comedy – Much Ado About Nothing, Taming of the Shrew, Midsummer Night's Dream; student choice – Tempest,
Merchant of Venic, Twelfth Night, Julius Caesar, Richard III, Anthony and Cleoprata), and a historical look at Elizabethan England will be the main focus of the course. Class will involve dramatic reading/acting of scenes, small group or individual readings, projects, writing a sonnet, analyzing film clips and discussion. Chromebooks, internet resources and teacher-development materials will be used throughout the course. Students will also conduct scene analysis using film adaptations in comparison to their textual versions.

MANAGEMENT AND INFORMATION SYSTEMS TECHNOLOGY

507 Computer Science Discoveries .25 Credit Computer Science Discoveries is a required elective course for 7th Grade students that meets daily for 9-weeks. The course takes a wide lens approach to computer science by covering general computer topics such as how to save a file, proper identification of file extensions and how to use them, proper Email procedures. Students also learn Adobe applications for photo editing and video production, and Microsoft Excel. Towards the end of the course, students use Alice to learn basic problem solving and programming.

503 Video .5 Credit The Video I course is a semester-length course that may be scheduled on an alternating cycle for the entire year. The course is open to freshmen, sophomores, juniors and seniors. The emphasis is on the operation of digital video and audio devices. The course covers the Filming, Capturing and Editing of media acquired from a digital camcorder, cell phone or tablet and includes making transitions, color corrections and voice-overs. Students will also learn how to set up and conduct live interviews. Storyboarding is emphasized. Students will have two projects of various lengths per marking period. After the student has acquired the basic skills of cinematography and post production work, they will film various Districts events such as sports, concerts and plays as well as conduct live interviews; therefore time outside of the classroom is required to attend these events. These products will feed the Broadcast so that more student activities are shown. This is a project-based course.

531 Yearbook 1 Credit Yearbook is a yearlong course designed as an elective for juniors and seniors who are interested in producing a tangible substantial product. Students need to have excellent time management and communication skills and want to be part of an entrepreneurial environment. These students use a suite of Adobe software products such as Photoshop, Illustrator and InDesign. Students must be willing to spend time outside of the classroom taking pictures, selling advertisements and interviewing people. The number of students allowed to take this course is limited to 10. Students who like to write and have passed either Creative Writing and / or Journalism may enroll with permission of the instructor. Students must have passed Digital Photography and Photojournalism to take this course. Juniors who successfully completed their first year may return as seniors, with permission of the instructor, to continue their work on the yearbook.

533 Broadcast 1 Credit The Broadcast course is a yearlong course offered to sophomores, juniors and seniors. This course offers hands-on training to students who would like to become proficient with industry standard tools and practice in the fields of broadcasting and audio production. Students learn the theory and hands-on applications of multi-camera studio production. Students taking Broadcast learn how to plan and produce a news program for daily broadcast and live streaming. Students are required to demonstrate proficiency in each job involved including producer, writer, technician, director, audio tech, interviewer, newsreader, and camera operator. The prerequisite for this course is Video I. Students may take Video I and Broadcast concurrently with the permission of the instructor. Sophomores and Juniors who successfully completed the course may return the following year, with permission of the instructor, to continue their work in the studio.

541 Computer Programming I .5 Credit Computer Programming I is a yearlong course, offered to any freshman, sophomore, junior or senior who is interested in learning basic programming concepts. The course opens with students using Alice to learn about properties, methods and procedures. During the 2nd marking period, students enroll in Code HS to learn about web concepts/design, HTML, CSS and JavaScript. Students will build two websites during this marking period. During the 3rd and 4th marking periods, students will use Python programming language and be required to use Python to solve real world problems. Time permitting, students are introduced to C# programming.

580 Digital Photography .5 Credit The Digital Photography class is designed as an elective for 9th, 10th, 11th and 12th graders and provides students the opportunity to capture and develop their own photographs using a personal cell phone or school digital camera. Students practice editing, manipulating and composing images using Adobe Photoshop. The Capstone Project for this course is a portfolio. There are no prerequisites for the course and it will be scheduled as either a semester-length course or year-long alternating cycle rotation.

591 Photojournalism 1 Credit Photojournalism is journalism that uses images to tell a news story. Like a writer, a photojournalist is a reporter, but they must often make decisions instantly and carry photographic equipment, often while exposed to significant obstacles. Photojournalism a yearlong course designed as an elective for sophomores, juniors and seniors. The concept of the course is to provide students the opportunity to improve their photography, image editing, and graphic skills. Students will only use

Digital SLR cameras and edit all images in Camera RAW (unprocessed images). Students taking this course must have passed Digital Photography as a prerequisite. Students will learn how to originate single pictures and multiple image stories covering news, sports, and school and community activities to produce a monthly publication during the second semester. Aspects of journalism such as the generation of story ideas, research and visual execution are addressed, as well as legal and ethical issues that affect photojournalism. Students will also develop writing skills as they develop photo captions and generate text to support photo essays. Students taking this course should have decent typing skills. This is a required course for those students wanting to take Yearbook. Enrollment is limited to 10 students due to equipment availability.

550 AP Computer Science Principles 1 Credit AP Computer Science is a yearlong course for 10th, 11th and 12th grade students that is designed to be equivalent to a first-semester introductory college-level computing course. The course will introduce students to central ideas of computer science, instilling the ideas and practices of computational thinking and invite students to understand how computing changes the world. Students develop innovative computational artifacts (products) using the same creative processes artists, writers, computer scientists and engineers use to bring ideas to life. Students will also develop effective communication and collaboration skills as they work individually and cooperatively to solve problems, while discussing and documenting the impact their solutions could have on their community, society and the world. Students must have successfully completed Algebra II and Programming I to be eligible to enroll in this course. Students will have the opportunity to take the AP exam at the end of the course, which has two parts – written and submission of a final project (artifact). College credit can be obtained for those students passing the exam with a score of 3 or higher.

594 Game Design and Development I 1 Credit Game Design and Development I is a yearlong course designed as an elective for sophomores, juniors and seniors. This course covers Adobe Animate, the C# programming language, Pixel Art and the game engine Unity. Students must have passed Programming I prior to taking this course. After acquiring sufficient skills in the previous topics, students will spend the 2nd semester developing and coding their own computer games.

NOTE: This course will alternate years being offered with Game Design & Development II with planned years being 24-25 SY and 26-27 SY.

595 Game Design and Development II 1 credit Game Design and Development II is a yearlong course designed as an elective for juniors and seniors. This course covers C++ programming language, the 3D Modeling software called Blender and advanced features of the Unity game engine. Students must have passed Programming I and Game Design and Development I to be considered for this course. After acquiring sufficient skills in the previous topics, students will spend the second semester developing and coding their own computer games.

NOTE: This course will alternate years being offered with Game Design & Development I with planned years being 25-26 SY and 27-28 SY.

MATHEMATICS

301 Pre-Algebra 7 1 Credit This course is designed for students who need to strengthen their use and understanding of fundamental math skills and develop basic algebra skills, in addition to meeting the PSSA requirements in 7th grade. In-depth work with problem solving will be stressed. The topics in this course will include: rational numbers and exponents; proportionality and linear relationships; statistics and probability; and creating, comparing, and analyzing geometric figures. This course will prepare students for Algebra Concepts. Seventh grade students will be scheduled for this section of Pre-Algebra 7 based on recommendation of the teachers and Guidance Department with administrative approval.

337 Pre-Algebra 7 1 Credit This course involves a more algebraic approach to computation and in depth problem solving in addition to meeting the PSSA requirements in 7th grade. The topics in this course will include: rational numbers and exponents; proportionality and linear relationships; statistics and probability; and creating, comparing, and analyzing geometric figures. This course will prepare students for Algebra 1. Seventh grade students will be scheduled for this section of Pre-Algebra 7 based on recommendation of the teachers and Guidance Department with administrative approval.

347 Pre-Algebra 7 1 Credit This course involves a more algebraic approach to computation and in depth problem solving in addition to meeting the PSSA requirements in 7th grade. The topics in this course will include: rational numbers and exponents; proportionality and linear relationships; statistics and probability; and creating, comparing, and analyzing geometric figures. This course will prepare students for Algebra 1 Part 1. Seventh grade students will be scheduled for this section of Pre-Algebra 7 based on recommendation of the teachers and Guidance Department with administrative approval.

357 Supplemental Math 7 .5 Credit This course is designed for seventh grade students, **as an extension** to their full year Math class and work to further expose them to algebra-based content. The topics in this course will include number theory, ratio, proportions, and percents, algebra and geometry, statistics and probability, problem solving in all of the above topics. Students will be presented with a systematic approach for successfully answering open ended questions as seen on the Benchmark and PSSA exams. Students will be scheduled for the following school year based on teacher recommendation. This course will meet for all 7th grade students on a rotating schedule, 3 days per cycle.

308 Algebraic Concepts 1 Credit This course involves a more algebraic approach to computation with rational numbers as well as work with exponents, graphs, solving and using equations and inequalities, slope, linear equations, systems of equations, scientific notation, geometric figures and measurement. It will prepare the student for Algebra 1. Eighth grade students will be
scheduled for Algebraic Concepts based on recommendation of the teachers and Guidance Department with administrative approval.

318 Algebra 1 Part 1 1 Credit This course is designed to assist students in successfully completing Module 1 of the Keystone exam in addition to meeting the PSSA requirements in 8th grade. Topics covered are: computation with rational and signed numbers as well as work with exponents, graphs, solving and using equations and inequalities; geometric figures and measurement; ratio, proportions and percent; slope, linear equations, systems of equations and scientific notation. The Algebra 1 Part 1 class will prepare students for Algebra 1 Part 2. Eighth grade students will be scheduled for Algebra 1, Part 1 based on recommendation of the teachers and Guidance Department with administrative approval.

319 Algebra 1 Part 2 1 Credit This course is designed to assist students in successfully completing Module 2 of the Keystone exam. Topics covered are: functions, creating and interpreting graphs and tables, rate of change, coordinate geometry, and data analysis The Algebra 1 Part 2 class will prepare students for Geometry. Ninth grade students will be scheduled for Algebra 1 Part 2 based on successfully completing Algebra 1 Part 1, recommendation of the teachers and Guidance Department with administrative approval.

328 Algebra 1 A (Eighth Grade) 1 Credit This course is a traditional rigorous examination of the following concepts: working with algebraic expressions including mon and polynomials, solving linear equations, factoring polynomials, solving quadratic equations, simplifying and combining algebraic fractions, solving systems of linear equations algebraically and graphically, and an introduction to functions. Throughout the course, the methods of algebra will be used to solve numerous kinds of realistic problems including motion, area, mixture, work, as well as others. Prerequisite is successful completion of Pre-Algebra 7 (337) OR teacher recommendation. Open only to 8th graders and the Keystone Exam along with the 8th grade PSSA will be taken at the end of this class.

358 Supplemental Math 8 .5 Credit This course is designed for eighth grade students, **as an extension** to their full year Math class and work to increase their algebraic knowledge. The topics in this course will include number theory, ratio, proportions, and percents, algebra and geometry, statistics and probability, problem solving in all of the above topics. Students will be presented with a systematic approach for successfully answering open ended questions as seen on the Benchmark and the PSSA exams. Students will be scheduled for the following school year based on teacher recommendation. This course will meet for all 8th grade students on a rotating schedule, 3 days per cycle.

330 Algebra 1 B (Tech Prep) 1 Credit This course is designed for students who have taken Algebraic Concepts. This course is a traditional rigorous examination of the following concepts: working with algebraic expressions including monomials and polynomials, solving linear equations, factoring polynomials, solving quadratic equations, simplifying and combining algebraic fractions, solving systems of linear equations algebraically and graphically, and an introduction to functions. Throughout the course, the methods of algebra will be used to solve numerous kinds of realistic problems including motion, area, mixture, work, as well as others, and the Keystone Exam will be taken at the end of this class.

339 Algebra 2 A (9th Grade) 1 Credit This course is a review of the arithmetic axioms, solving equations with 1 and 2 variables, solving quadratic equations, identifying relations and functions, graphing linear functions, quadratic relations and functions, simplifying rational and exponential expressions and complex numbers. There are statement problems dealing with the above topics. The successful completion of Algebra 1 is a prerequisite for Algebra 2 A.

321 Algebra 2 A 10 1 Credit This course is a review of the arithmetic axioms, solving equations with 1 and 2 variables, solving quadratic equations, identifying relations and functions, graphing linear functions, quadratic relations and functions, simplifying rational and exponential expressions and complex numbers. There are statement problems dealing with the above topics. The successful completion of Algebra 1 is a prerequisite for Algebra 2 A.

349 Algebra 2 B (Tech Prep)_1 Credit This course is designed for students who have successfully completed Algebra 1 B. This course is a review of the arithmetic axioms, solving equations with 1 and 2 variables, solving quadratic equations, identifying relations and functions, graphing linear functions, quadratic relations and functions, simplifying rational and exponential expressions and complex numbers. There are statement problems dealing with the above topics.

340 Geometry A 1 Credit This class will involve deductive reasoning, basic terms, triangles, congruence of figures, constructions, relationship between sides and angles of triangles, similar figures, properties of right triangles, properties of parallel lines, quadrilaterals, transformations, symmetry, isometrics, -area, properties of circles, angle-arc relationships, volumes, and analytic geometry. The successful completion of Algebra 2 is a prerequisite for Geometry A.

341 Geometry B (Tech Prep) 1 Credit This course will take a close look at the many geometric concepts. Concepts that will be discussed include: Points, lines and angles; Geometric proofs; Parallel lines and their properties; Properties of Triangles, quadrilaterals, circles and spheres; Transformations; Proportions and similarity; Perimeter, area and volume. Connecting these concepts with algebraic concepts, students will facilitate a deeper understanding of geometry. Successful completion of Algebra 2 is a prerequisite for Geometry B.

364 Financial Literacy (12th Grade) 1 Credit This course is for students who have successfully completed Algebra 1, 2 and Geometry. It includes a study of mathematics that will be useful in everyday life. Students will learn how to do their banking, including checking, savings, and loans. Students will also learn about credit cards and how to be financially responsible. Other topics will include: buying a house or car, insurance and budgets

370 College Algebra (12th grade) 1 Credit This course will focus on the prerequisite skills of basic and intermediate algebra and prepare students for post-secondary level Algebra courses. Topics include a more in-depth study of expressions, solving equations and inequalities, circles and functions, including polynomial, logarithmic and exponential functions.
*NOTE: This course can be taken as a Dual Enrollment with Penn Highlands Community College.

360 AP Pre-Calculus 1 Credit AP Precalculus centers on functions modeling dynamic phenomena. This research-based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. The successful completion of Algebra 2 is a prerequisite for this course. Students will have the opportunity to receive college credit if they successfully pass the AP exam at the end of the course. This course carries an increased weighting and requires a significant time commitment outside of class; approximately 9-12 hours a week. Summer work is also a requirement for the course. A scientific graphing calculator (TI-84) is highly recommended for work on assignments, and on examinations.

367 Advanced Placement: Calculus AB 1 Credit The ability to use and apply Calculus rather than do Calculus is one of the major goals in the AB Calculus class. We will approach the topics as extensions of materials studied previously. This course is designed to prepare students for college level Calculus and to succeed on the AP Calculus exam. This will be a rigorous course forcing the students to work hard and prepare for a college environment. Topics that will be studied will include: Functions, Limits, Derivatives, application of Derivatives, Area, Integrals, application of Integrals, and Differential Equations. Students will be expected to complete a summer assignment to prepare for this course. The successful completion of Pre-Calculus is a prerequisite for AP Calculus. This is a full year course which carries an increased weighting and college credit can be attained by achieving a score of 3 or higher on the AP exam. Additionally, students are currently able to pay for College Credit through Mount Aloysius. AP classes require a significant time commitment outside of class; approximately 9-12 hours a week. Summer work is also a requirement for the course.

351 SAT Math .5 Credit This course is for preparation to take the SAT. The course will review topics from Algebra and Geometry as well as provide practice taking the types of mathematics questions that appear on the SAT.

352 AP Statistics 1 credit AP Statistics is an introductory college-level statistics course that introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. This course is open to students that have successfully completed Algebra II. A TI-84 calculator is highly recommended. Students cultivate their understanding of statistics using technology, investigations, problem solving, and writing as they explore concepts like variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions. This course carries an increased weighting and college credit can be attained by achieving a score of 3 or higher on the AP exam. Additionally, students are currently able to pay for College Credit for this course through Pennsylvania Highlands Community College. AP classes require a significant time commitment outside of class; approximately 9-12 hours a week. Summer work is also a requirement for the course.

MUSIC

627 Introduction to Music 7 .25 credit This course meets every day for 9 weeks and exposes 7th grade students to the wide variety and opportunities within the school's music program. Instruments, sound technology and music genres are just a few topics covered in this introductory course.

628 Fundamentals of Music 9 .5 Credit This course is an Introduction to Music. Topics covered include but are not limited to the basics of notation, Music Appreciation, Music History, Theory, Technology, as well as introductions to guitar and piano. This course is a required 9th grade elective and is semester-length.

629 Concert Band .5 Credit This is open to all students, 7th through 12th grade and available for repeat credit. This course explores rehearsal and instrumental techniques as they are applied to a performance setting. Performances include but are not limited to a Christmas Concert, Spring Concert and graduation exercises as well as additional performances; selected students may elect to attend County Band and District Band (pending selection and P.M.E.A. guidelines). Instrumental lessons of all levels are also a component of this program. The course is a full year in length and meets every other day.

639 Concert Choir .5 Credit This is open to all students, 7th through 12th grade and available for repeat credit. This course explores rehearsal, vocal and choral techniques as they are applied to a performance setting. Performances include but are not limited to a Christmas Concert, Spring Concert and graduation exercises as well as additional performances; students in grades 10-12 may elect to attend County Chorus and District Chorus (pending selection and P.M.E.A. guidelines). The course is a full year in length and meets every other day.

631 Music Theory/Appreciation 1 Credit This course is intended for 10th, 11th and 12th grade students. For the first half year the students will study various time periods up to, and including the present time. Students will also be introduced to Society's philosophical beliefs and how music reflects and is affected by them. The second half of the year students will learn Music Theory concepts which include Scale and Chord Construction, Sight-singing, basic composition and analysis, rhythmic and melodic dictation, transpositions, basic conducting and arranging. Student will be scheduled five (5) times per week for the entire year

634 Guitar I .5 Credit This semester-long course is designed for both beginners and those with some guitar experience. School guitars are available for use. Students will receive guidance and direction in solving problems related to playing the guitar and will learn many of the different styles, skills and techniques required to become a successful guitarist. Areas of concentration include: correct posture, note reading, aural skills, flat-picking, signing songs, rhythmic patterns, chord study, tablature, finger-picking styles, musical forms, improvisation and performance experiences. NOTE: The class enrollment may be limited to 15 students due to available guitars.

635 Modern Band .5 Credit This elective course focuses on the development of a contemporary music ensemble which will emphasize learning, creating, and performing music in styles such as 'garage band' rock, pop, hip-hop, R&B, electronic, and other modern genres. Students will use instruments commonly found in modern bands, including guitar, bass, drums, keyboard, vocals, and technology-based tools such as digital audio workstations (DAWs). This course emphasizes collaboration, creativity, and practical skills relevant to today's music industry.

649 Music History & Appreciation .5 Credit In this course, students will listen to and learn about music from many different time periods from medieval times, all the way up through music of the 20th century. During class, students will listen to music from various time periods as well as study the culture at that time and how it helped contribute to music that was being created. Students will delve deeper into the instruments, composers and genres while learning about music of the past and drawing connections to music of the present.

PHYSICAL EDUCATION, HEALTH AND SAFETY

717 Physical Education .5 Credit This course consists of fundamental skills of indoor soccer, floor hockey, basketball, football, speedball and volleyball. Physical fitness with recreational team games such as softball, angleball, ultimate Frisbee, Frisbee golf, track events.

708 Physical Education .5 Credit This course consists of intermediate level skills of soccer, basketball, volleyball, physical fitness and recreational team games such as softball, boundball, football, speedball, angleball, track events and crab soccer. Dance and units of Wellness and Fitness (up to 4 per year) are included. Students have Physical Education 708 scheduled five periods a week for one semester.

709 Physical Education .5 Credit This course is a further sharpening of skills in soccer, speedball, basketball, angleball, ultimate Frisbee, Frisbee golf; football,volleyball, physical fitness, recreational team games, softball, and handball.

710 Physical Education .5 Credit These are co-educational classes consisting of speedball, boundball, handball, table tennis, tennis, bowling, basketball, coed volleyball, floor hockey, football skills, physical fitness, coed recreational team games, and coed softball, depending upon class size. Dance and units of Wellness and Fitness (up to 4 per year) are included. Students have Physical Education 710 scheduled five periods a week for one semester.

720 Physical Education .5 Credit These are co-educational classes consisting of some self-organization on the part of the students in basketball, angleball, ultimate Frisbee, Frisbee golf, speedball, handball, bowling, physical fitness, softball, football skills, indoor soccer, and floor hockey. Additional units include basketball, volleyball, physical fitness, recreational team games, weight training, and conditioning. Dance and units of Wellness and Fitness (up to 4 per year), aerobics/slimnastics, track events, tennis, table tennis, handball, and boundball are refined and polished. Students have Physical Education 720 scheduled five periods a week for one semester.

737 Health .5 Credit The course covers the areas of mental health, including self-concept, decision-making, stress and disorders, body systems, nutrition, and first-aid. Information on HIV/AIDS, drugs, alcohol and tobacco will also be presented. A notebook will be required.

739 Health .5 Credit The course will cover body systems, mental health, including stress management skills, suicide prevention, emergency care, nutrition and first aid. Also, a unit on HIV/AIDS, drugs, alcohol and tobacco will be presented. A notebook will be required. This course is required for 9th grade students.

740 Traffic Safety .25 Credit Traffic Safety is a theory course in the safe operation of an automobile. It is designed to give students a background in developing proper attitudes and habits necessary to insure intelligent, safe use of an automobile. The classroom materials include the textbook, "Responsible Driving", films on safe driving practices and the PA Driver's Manual. Students have Traffic Safety scheduled every other day for one semester for one semester.

742 First Aid / CPR .25 Credit (May not be able to offer due to trainer certification) The First Aid / CPR course is open to Sr. High students, grades 10-12 and is scheduled semester-length and meets every other day. The course will serve as an elective credit and/or ensure students exceed the 2.5 required credits for Health & PE. The purpose of the courses in the First Aid/CPR/AED program is to help participants recognize and respond appropriately to cardiac, breathing and first aid emergencies to know to give immediate care to a suddenly injured or ill person until more advanced medical personnel arrive and take over. This course incorporates the latest science and teaches students to recognize and care for a variety of first aid emergencies such as burns, cuts, scrapes, sudden illnesses and cardiac emergencies. Students that successfully complete the course and summative assessment will earn official certification from the American Red Cross; certification is good for a period of 2 years and can assist students in meeting the 'Industry-Based Credential' component of the Evidence-Based Act 158 Graduation Pathways requirement.

744 Strength Training (.5 credit) This course is open to all students, with preference given to active student athletes that compete in school-sponsored sports, and is designed to enhance athletic performance, injury prevention and overall physical development for student-athletes. The class provides a structured program, which combines foundational strength training principles and advanced weightlifting techniques. Additionally, students will be exposed to sport-specific weight training, physical fitness, plyometrics and conditioning.

748 Sports Officiating (.5 credit) This course will introduce students to the world of sports officiating by providing a comprehensive understanding of the rules, mechanics and ethics involved in various sports, such as basketball, football, soccer, baseball/softball and volleyball. Through a combination of classroom instruction, practical drills and real-world experience, students will develop the skills and knowledge necessary to become both volunteer (EX: Little League, PeeWee, Rec League) and certified (EX: PIAA) sports officials.

SCIENCE

407 Physical Science 1 Credit This course is designed to expose 7th grade students to the basic concepts and techniques in physical science. Various topics include: the metric system, atoms and molecules, matter, energy - mechanical, heat, electrical, waves (light and sound). These topics are presented in a manner that requires a greater use of mathematics and problem solving.

408 Life Science 1 Credit This course is designed to give 8th grade students an introduction to the basic concepts and techniques in Life Science. Emphasis is placed on the ascending complexity of living things and the relationship of living things to each other and to their environment. Various topics include: organization of living things, plants, animals, and genetics. It connects directly to Biology in 9th grade.

420 Biological Science 1 Credit This course is an introduction to the science of biology. The course is designed to meet the needs and interests of the tech prep student. The material is structured around a series of major themes – science as investigation; the history of biological concepts; coexistence of organisms and environment; and regulation and homeostasis. These themes are interwoven, starting on the molecular level and extending to all living organisms, especially emphasizing the animal kingdom. Students that enroll in this course will take an additional .5 credit course relating to the Applications of Biology prior to taking the Keystone Exam.

423 Integrations of Science 1 Credit This 10 th grade year-long science course expands on the knowledge gained from the previous year's course – Biological Concepts with a more integrated approach to teaching the fundamental content of Biology and Chemistry. The course will provide individualized opportunities for learning with hands-on activities. Students enrolled in this course will take the Biology Keystone exam during the winter or spring window.

429 Biology 1 Credit This course is designed as a 9th grade advanced science class on the science of biology. The material is structured around a series of major themes - science as investigation and inquiry, the history of biological concepts, coexistence of organisms and environment, regulation and homeostasis, and the biological basis for behavior. These themes are interwoven, starting on the molecular level and extending to all living organisms. The course is designed in such a way as to meet the needs and interests of the college prep student, and the Keystone Exam will be taken at the end of this class.

430 STEM 101 .5 Credit This class is a (meets year-long, every other day) required elective for 8 th grade students. The class provides hands-on, inquiry-based learning activities that connect to science practices covering STEM content with an overview of Earth and Space in keeping with the STEELS standards. Examples of engineering design and Earth and Space projects include, bottle rockets, Mars Rovers, 3-D printing, earthquake-resistant buildings, roller coasters, volcano simulations, tectonic plates, and robotics.

431 College Prep Chemistry 1 Credit This course is a 10th grade year-long course, which provides students with a fundamental background in chemical principles. The course focuses on building a basic understanding in the following topics: Laboratory Safety; Measurement and Calculations; Matter and Energy; Atomic Structure; Periodic Table and Trends; Chemical Formulas; The Mole; Chemical Reactions; Typical Elements; Chemical Bonding; Kinetic Theory (Gases, Liquids, Solids); Gas Laws; and Stoichiometry. Laboratory work will allow students to observe, make predictions, collect data, analyze, make inferences, and communicate results through various methods (i.e. summaries, oral presentations, tables, graphs, charts, and diagrams). The prerequisites for this course are both Algebra1 and Algebra II.

421 Applied Chemistry 1 Credit This course is a 10 th grade year-long course, which provides students with a very basic background in chemistry. Students have opportunities to communicate an understanding of chemistry through laboratory investigations, exploration of concepts, critical thinking exercises, and mathematical problem solving. Concepts covered in the course include the following: Measurement, Atomic Structure, Periodic Table and Trends, Chemical Formulas, Chemical Reactions, Chemical Bonding, and Acids and Bases. Laboratory work allows students to experience, first hand, the concepts covered in this basic–level course of chemistry.

432 Honors Physics 1 Credit
This is a “modern” physics class following a traditional format. The areas of student investigation include the science of measurement, velocity, acceleration, forces, Newton’s Laws of Motion, projectile motion, circular motion, and more. The course is essentially a college preparatory course for students pursuing careers in science, engineering, or similar fields. This course is open to 11 th and 12 th grade students. Students must be enrolled in, or have completed Pre-Calculus when taking this course. Students must also have completed 431 Academic Chemistry. Honors Physics can be taken for college credit through Mount Aloysius College.

411 Environmental Science 1 Credit
This full year project based course is available for students in grades 11 or 12. Major emphasis is placed on hands-on learning and lab work. The course is an introductory science course that focuses on the environment and its conservation. The topics include, Population and Biomes, Energy Sources, Global Warming, Energy Conservation, Rocks and Minerals, and Space Science.

453 Honors Anatomy & Physiology 1 Credit
This course is an advanced supplement to the Biology course for students interested in the medical field. Studies will focus on the human body; individual units will highlight the following topics: body organization and directions, tissues, skeletal system, muscular system, nervous system, endocrine system, cardiovascular/circulatory system, respiratory system, immune system, digestive system, urinary system, reproductive system, fetal pig dissection and anatomical root words.

463 Honors Chemistry 1 Credit This course is a year-long, weighted course, designed to be an extension of the College Preparatory Chemistry course. The following topics are highlighted: Gas Laws and Gas Stoichiometry; Acids, Bases, and Salts in Aqueous Solutions; Chemical Equilibrium; Basic Organic Chemistry; Thermodynamics; Chemical Kinetics; and Electrochemistry. Students are required to have an average of 80% or better in College Preparatory Chemistry to take this course. Laboratory work allows students to observe, make predictions, collect data, analyze, make inferences, and communicate results through various methods (i.e. summaries, oral presentations, tables, graphs, charts, and diagrams). Mount Aloysius College and St. Francis University offer college credit via their dual enrollment program for this course. This course will prepare students who plan to pursue a medical-related college major, when they leave high school. The Honors Chemistry course will also serve as a preparatory course for the Advanced Placement (AP) Chemistry course, if students take the Honors course in 11th grade.

419 Introduction to the Technology of Science 1 Credit This high school elective for 10 th – 12 th graders will explore the technologies related to biotechnology. The first half of the year covers forensics with investigations like Blood Spatter analysis, Hair analysis, Fingerprinting, Gel Electrophoresis, and other Crime Scene investigative techniques. The second half of the year will relate to health related topics including Vaccines, 3-D printing prototypes, robotics, waste management, ergonomics, and medical advancements. This course is a hands-on course that will implement problem-solving, prototype development and real-world applications.

442 AP (Advanced Placement) Chemistry 1 Credit This course is a weighted, year-long course, which is structured around six big ideas and seven science practices articulated in the Advanced Placement curriculum provided by the College Board ©. This course is open to students who have successfully completed a year of Academic Chemistry and Honors Chemistry with a grade of B or better and who want to extend their learning of chemistry with an academically challenging course. The class will meet one period every day with supplemented material from the College Board© AP Classroom. This course will cover the following: Atomic Structure and Properties, Compound Structure and Properties, Properties of Substances and Mixtures, Chemical Reactions, Kinetics, Thermochemistry, Acids and Bases, Equilibrium, Electrochemistry and Thermodynamics. This course prepares students for the Advanced Placement Chemistry assessment administered in early May. College credits will be awarded by the College Board© to students who pass the placement exam.

SOCIAL STUDIES

227 World Geography 1. Credit This course is designed to give 7th grade students an interesting overview of the major continental regions of the Earth. Topics to be addressed are map skills, the Earth, climate, natural resources, and population. The physical and cultural geography of various areas will be addressed. Other topics are USA, Canada, Mexico, Central America, South America, The Middle East, Europe, Africa, Asia, Australia and Antarctica. Reading, writing, and critical thinking skills will be stressed in this course.

238 Civics 1 Credit This course is designed to give 8th graders an opportunity to study the principles of American government. Topics to be addressed are citizenship, early American democracy, types of government, separation of powers, checks and balances, & federalism. The Declaration of Independence, The Constitution and Bill of Rights will be discussed. Other topics are individual rights and freedoms, Congress, presidency, court system, voting, political parties, role of news media, taxes, and the criminal justice system. Reading, writing, and critical thinking skills will be stressed in this course.

209 U.S. History I 1 Credit This course is a survey of the major social, political, and economic events which have occurred in the United States. It begins with the discovery of America, including the colonization by England, the creation of a new nation and its expansion across North America, and continues through the aftermath of the Civil War. Major emphasis is placed upon the study of the period from the founding of Jamestown in 1607 to the post-Civil War reconstruction period.

210 U.S. History II 1 Credit This course is a survey of our American History from the 1870's to the present. This nation of ours is unique and has been exposed to many challenges. We will examine our nation's past and how it has prepared all of us in varied ways for our contemporary world. The history of the United States has been a paradox of triumph and tragedy. America has been continuously confronted with the meaning of democracy, opportunity, justice, and equality. This survey course will show American growth politically, socially, economically, and culturally. Students will begin to see connections from the past and better prepare for the future as American citizens.

211 World Studies 1 Credit The senior high World Studies, and integrated language course, will examine and analyze the major influences on our society since the time of the European
Renaissance in the 1400's. The foundations of democracy, self-determination, human rights and freedom, individual dignity with a common purpose; all known as "Western values", will be studied as they were sometimes masterfully used and tragically abused. Individual and partnership research activities, visuals, writing and mapping are some of the usual class activities. The impact of the related events on common people as well as the major players in the units of study will be stressed. This course fulfills the eleventh grade history requirement.

212 Government/Economics 1 Credit The purpose of the one semester Government Course will be to give students an in-depth understanding of government. This course will deal with the structure of the United States Government and compare it to other governments throughout the world. The objectives of the one semester Economics Course will be responsible citizenship and economic decision-making. This course will deal with the kinds of economic issues and questions high school graduates will face as adults. Some general concerns will be the role of prices in a market economy and the role of government.

244 Psychology 1 1 Credit The purpose of this elective course for seniors will be to give students a better understanding of themselves and others. This course will attempt to explain why people behave, feel and think as they do. This course will also explore ways in which people can improve their quality of life. While exploring behavior this course will describe the relationship between psychology, physics, chemistry, biology, anthropology, and sociology.

242 Sociology .5 Credit This elective course is open to seniors only. It is designed to give students the opportunity to study our society and how it affects us. This class will explain how and why groups act, and how groups influence individual's behaviors.

243 Current Events .5 Credit This course is a half credit course for 11th and 12th grade students, designed to familiarize students and encourage discussion and debate concerning our government, current issues and decisions facing the United States. Goal is to attain a greater understanding of the global connectedness of the US, and how decisions affect a worldwide community. Students will use research, factual evidence, and supported opinion to be an active participant in the democracy society.

248 Introduction to eSports .5 credit This semester-length course is open to students in grades 9-12 and strongly encouraged for anyone interested in or already a member of the school's eSports program. The course will trace the video game industry and recent expansion into online competitive gaming. The courses uses curriculum provided by The eSport Company, who manages the school's competitive eSports league and touches on the wide range of gaming-related opportunities, such as: production, marketing, communications, graphic design, video editing, game design, programming, social media influences and marketing.

232 AP United States History 1 Credit This course will provide a college-level approach to the study of United States History. We will begin with the Age of Exploration continuing to present day. While taking this course, students will prepare for the AP Exam which will take place in May. An emphasis will be placed on analyzing and interpreting information in order to synthesize and evaluate its impact on the history of our country and on our lives today. A chronological approach will be used to study the political, economic, and social development in America's history. Key themes in this development will be identified, traced, analyzed and evaluated throughout this course. The themes include political development, the impact of immigration, the changing nature of relations among groups, the significance of regional culture, economies and the impact of large social movements. This is a full year course and college credit can be attained through passing the AP exam. This course requires a significant amount of work and could involve a summer packet of pre-work prior to the start of class. This class is intended for 11th and 12th grade students, 10th grade students require teacher and guidance counselor recommendation to enroll.

245 AP US Government and Politics 1 Credit This course will take a college level and in depth approach as to how government and politics work in the United States. While taking this course, students will prepare for the AP exam in May. This class is intended for 11th and 12th grade students. An emphasis will be placed on the following skills: argumentation, analysis, and writing. Students taking this course will have an opportunity to earn college credit if they pass the AP exam in May. Students should expect 2-3 hours of work outside of class per week, on average. Topics covered will include: Foundations of American Democracy, Branches of Government, the Constitution, Political Socialization, Political Parties, the Media, and more. There will be a required summer assignment which must be completed in order to remain in the class.

247 Financial Entrepreneurship .5 Credit This semester-length course is available to sr. high students as an elective offering and can fulfill a social studies or humanities credit requirement. This course is designed to provide students with in-depth experiences on financial entrepreneurship. Topics will include but are not limited to: Business Practices (production, pricing, competition, sales, marketing, advertising); Wealth Management (investing strategies, Stock Market competition); Entrepreneurship (small business start-up, venture capitalism, product design/improvement).

248 US History: 1960 to Present .5 credit This semester length, elective course will take a look at important people and events within US Society from 1960 to the present. An emphasis will be placed on cause and effect, along with making connections to today's world. As this class will show, much of how our world works (politically, economically, socially) stems from the early portion of this time period. There is no prerequisite for this class; however prior successful completion of US History I and US History II will provide students with a better understanding of previous time periods/events that helped shape this more modern timeframe in US History. This class is open to grades 10-12.

250 AP Psychology 1 Credit Advanced Placement Psychology is the equivalent of a college introductory psychology course. The curriculum for the class places an emphasis on connecting psychological concepts to real-life, understanding data, and research design. Readings and homework will be assigned on a regular basis, with tests occurring at the conclusion of each unit. Students should expect 2-3 hours of work outside of class per week, on average. Independent and group projects will also be a frequent component of the class. A summer assignment will be given, and must be completed in order to remain in the class. Areas of focus will include: History of Psychology, Biopsychology, Learning and Cognition, Social Psychology, Abnormal Psychology, Developmental Psychology, and Personality. This course is intended for 12th grade students. Students will also have the opportunity to earn college credit by taking the AP exam in May.

SPECIAL EDUCATION

128 Social Skills .5 Credit The social skills course is designed to provide students the necessary experiences to interact and engage with peers in social settings and environments. Topics covered include: friendship building, peer interaction, self-esteem, personal confidence, growth mindset, self-awareness, coping strategies, self-regulation and mindfulness.

NOTE: Social Skills course will be scheduled based on IEP requirements and may be taken multiple years.

195 Transition .5 Credit In this course, students will explore career options and post-secondary school options. The class will take field trips to learn about different workplaces and career options within the local community. The course will also expose students to time management, interview skills, organization, money management and life-related tasks, such as scheduling appointments, cleaning, paying bills and laundry). The course will primarily be project and presentation based.

NOTE: The Transition course will be scheduled for students in grades 9-12 as scheduling permits; 11th & 12th grade CTC students may not be able to fit this course into their schedule. The course can be taken multiple years and is strongly encouraged for all IEP students but not necessarily required.

129 Mindfulness 101 .5 Credit Mindfulness is a special way of paying attention to your moment-by-moment experiences, and being open to what is happening in your life right now. When you are mindful, you are aware of your thoughts, feelings, physical awareness and immediate surroundings. In this course, students will discover what mindfulness is and what it isn't, what changes are happening in their brain as a teen, and how stress activates the fight-flight-freeze response. The course will provide easy mindfulness exercises, reflections, and quizzes to assess their knowledge, along with discussions and scenarios to help understand what exercises to use and when.
NOTE: The Mindfulness course will be scheduled for students in grades 9-12 as scheduling permits. The course can be taken multiple years and is strongly encouraged for all IEP students but not necessarily required; however the course may be required based on IEP requirements.

(Course has not been offered due to staffing)

AIDE COURSES

Seniors only may schedule only one aide course per year. Students will be scheduled 6 days per cycle for one semester for .5 credit or 6 days per cycle for two semesters for 1 credit. Students will be graded pass/fail. Teacher approval is required.

632/642 Music Aide .5-1 credit This course is designed to enhance student music knowledge by aiding the band and /or choral director in various activities. This course is intended for current band and /or chorus students. Students must have approval from the Music Department to enroll in this course.

583 Computer Aide .5-1 Credit This year-long course is designed as an elective for seniors who have passed Introduction to Computer Applications and Video Production. Students must have shown initiative, technical skills, maturity and time management traits to be able to help students taking the various computer courses, including Photoshop, Video Production, Animation, Broadcast, Computer Programming and Desktop Publishing courses. Final enrollment is based upon approval of the instructor.

592 Video Production Aide .5-1 Credit This year-long course is designed as an elective for seniors who have passed Introduction to Computer Applications and Video Production. Students must have shown the initiative, technical skills, maturity and time management traits to be able to help students taking the Video Production course. Class time will be scheduled with the Video Production students. Students taking this course will split their time between helping set up the classroom and assisting students in the Video Production course. Only one or two students will be selected. Final enrollment is based upon approval of the instructor.

481-480 Chemistry Aide .5 or 1 Credit A student interested in being a chemistry aide must be interested in pursuing a career in a science-related field. The chemistry aide will help to prepare solutions, to set up for experiments, to clean equipment, and to maintain the stock room. The student aspiring to be a chemistry aide must take a year of Academic Chemistry and earn a grade of 90% or better. Being a chemistry aide is a school year-long commitment. Only one student per year will be approved by the teacher for this position.