Conneaut Area Senior High School Linesville, Pennsylvania



Use this guide to develop an academic plan and career path.



"College, Career and Life Readiness means that individuals possess the knowledge and skills necessary to succeed in life after high school and to thrive in their community."

THE COUNSELING DEPARTMENT

Dear Student and Parent:

The following information is supplied to assist with creating the best possible schedule for the next school year. Consideration needs to be given to choosing courses that satisfy graduation requirements, career aspirations, prerequisites and appropriate curriculum sequencing.

Extensive effort is made by your high school administrators and counselors to ensure you have chosen and receive the best possible schedule.

With approximately 650 students in grades 9-12, a general booklet such as this cannot address all of the individual situations and concerns. If you have any questions about your scheduling choices, please make an appointment with your counselor. Making good choices for your academic plan will make a positive impact in your future.

Mrs. Lisa Lichota	Ms. Melissa Flinchbaugh
Even grad years 2020, 2022 etc.	Odd grad years - 2021, 2023 etc.
lisa.lichota@conneautsd.org	mflinchbaugh@conneautsd.org
ext. 2369	ext. 4942
Mr. Ed Pietroski	Mr. Matt Vannoy
Principal	Principal
edward.pietroski@conneautsd.org	matt.vannoy@conneautsd.org
ext. 4917	ext. 4937

The Conneaut Area Senior High school faculty and administration would like to take this opportunity to stress the importance of proper course selection for the school year. Your high school transcript will be with you for the rest of your life. Employers, colleges, apprenticeship programs, or technical training institutions usually request to see high school transcripts. They would like to see if you've prepared yourself for the future.

Sometimes choosing your courses is difficult. The best policy to follow when selecting courses is to take the ones that are challenging but within your capabilities. Also, follow your interests. Students usually find jobs in fields where they feel comfortable.

CONNEAUT AREA HIGH SCHOOL

PROCEDURES & REMINDERS

1. Students should carefully read this booklet and pay special attention to the graduation requirements, required courses and the course descriptions.

2. The English and Mathematics teachers will make course recommendations.

3. Students must schedule a minimum of EIGHT credits.

4. Students are to complete the course selection sheet, which will be seen by their parent/guardian before returning it to their guidance counselor.

5. Students will meet with their assigned counselor to review their schedules.

6. Students who successfully complete all required course work and earn enough credits will be promoted to the next grade level. Options for retaking required courses and making up credit are available and must be approved by the principal.

7. Students who failed a required course will be contacted by their counselor at the end of the school year. Opportunity will be given to either repeat the course through summer credit make-up or to reschedule the course.

GRADUATION REQUIREMENTS

English	4 credits
Math	4 credits
Science	3 credits
History	3 credits
Physical Education	2 credits
Health	1 credit (.5 to be taken in 9^{th} and 11 th grade)
Computer	1 credit
Electives	Students will select additional courses from among those approved for
	credit by the school district, including approved CTC
	courses.

Number of credits required for graduation: 26 credits

SR. HIGH REQUIRED COURSES

9TH GRADE REQUIRED COURSES		
COURSE	CREDIT	
English	1	
Math	1	
World Cultures	1	
Biology	1	
Computer Applications	1	
Phys. Ed.	.5	
Health 9	.5	
Elective	1	
Elective	1	
TOTAL CREDITS	8 Minimum	

10TH GRADE REQUIRED COURSES	
COURSE	CREDIT
English	1
Math	1
US History	1
Science	1
Phys Ed.	1
Elective	1
Elective	1
Elective	1
TOTAL CREDITS	8 Minimum

11TH GRADE REQUIRED COURSES		
COURSE	CREDIT	
English	1	
Math	1	
Government	1	
Science	1	
Phys. Ed.	.5	
Health 11	.5	
Elective	1	
Elective	1	
Elective	1	
TOTAL CREDITS	8 MINIMUM	

12TH GRADE REQUIRED COURSES	
COURSE	CREDIT
English	1
Math	1
Phys. Ed.	1
Elective	1
TOTAL CREDITS	8 MINIMUM

SR. HIGH REQUIRED COURSES FOR TECH SCHOOL STUDENTS

9TH GRADE REQUIRED COURSES

COURSE	CREDIT
English	1
Math	1
World Cultures	1
Biology	1
Computer Applications	1
Phys. Ed.	.5
Health 9	.5
Elective	1
Elective	1
TOTAL CREDITS	8 Minimum

10TH GRADE REQUIRED COURSES		
COURSE	CREDIT	
English	1	
Math	1	
US History	1	
Phys. Ed.	1	
СТС	4	
TOTAL CREDITS	8 Minimum	

11TH GRADE REQUIRED COURSES	
COURSE	CREDIT
English	1
Math	1
Government	1
Science (choice)	1
СТС	4
TOTAL CREDITS	8 MINIMUM

12TH GRADE REQUIRED COURSES	
COURSE	CREDIT
English	1
Math	1
Phys. Ed.	.5
Health	.5
Elective	1
СТС	4
TOTAL CREDITS	8 MINIMUM

Connecting Careers, Curriculum, and Character Education

What are Career Pathways?

Each pathway is a broad grouping of careers that share similar characteristics and whose employment requirements call for many common interests, strengths, and competencies. A Career Pathway focuses a student's elective course toward preparing for a specific goal area. Career Pathways provide opportunities for students to explore similarly grouped career options. They also serve as an organizing tool for schools to help focus curriculum and bring relevance into the classroom.

Why should I explore Career Pathways?

- To help focus on a career area that matches interests
- To help set goals and align classes necessary to achieve those goals
- To create career awareness
- To encourage planning for workforce or postsecondary education opportunities
- To provide knowledge that relates the high school experience to the world after graduation

How do I explore a Career Pathway?

- You will research various career fields in middle school
- You will take a Career Explorations course in tenth grade to help guide your decisionmaking process
- Your counselors, parents and teachers will assist you
- You will utilize various software tools to explore and research various careers



The 5 Pathways

ARTS AND COMMUNICATION (AC)

Careers in the Arts, Audio-Video Technology and Communications involve designing, producing, exhibiting, performing, writing and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.

Career cluster areas:

- Audio, Video Technology, and Film
- Printing Technology and Graphic Communication Technology
- Visual Arts
- Performing Arts
- Journalism and Broadcasting
- Telecommunications

BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY (BFIT)

Business management and administration careers encompass planning, organization, directing and evaluating business functions essential to efficient and productive business operations.

Career cluster areas:

- Marketing, Sales, and Service
- Finance
- Business Management
- Information Technology

ENGINEERING AND INDUSTRIAL TECHNOLOGY (EIT)

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

Career cluster areas:

- Architecture and Construction
- Manufacturing
- Engineering and Engineering Technology
- Transportation, Distribution, and Logistics

HUMAN SERVICES (HS)

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

Career cluster areas:

- Counseling and Personal Care
- Education
- Law, Public Safety, and Government
- Hospitality and Tourism

SCIENCE AND HEALTH (SH)

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

Career cluster areas:

- Health Science
- Agriculture, Food, and Natural Resources
- Science, Technology, and Math

Arts and Communications (AC) Pathway

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

Are you interested in	Can you	Do you enjoy
 News reporting and writing Interviewing and reviewing Multi-media productions Acting Radio, TV, Film, Video Performing in a band or chorus Attending concerts Drawing, painting Artwork 	 Sing Play an instrument Be creative Act Articulate clearly Write and conduct interviews Meet deadlines Sell Draw Sculpt 	 Writing Making Videos Working with film props Seeking creative ideas Working with sound effects Performing in front of an audience Working with computers

If you answered "yes" to many of these questions, you might consider a future in one of the sample occupations listed below.

Sample Careers

Entry	Technical/Skilled	Professional (4+ college)
 Model Radio operator Stagehand Stunt performer Announcer Dancer Film loader Photographer Floral designer Florist Sound technician TV, video, and movies Desktop publisher Copy person Newsroom worker 	 Actor Illustrator Choreographer Dancer Disc jockey Musician Animator Artist Broadway technician Fashion designer Jeweler Make-up artist Recording Engineer Video manager Computer graphic artist Web designer Desktop publisher 	 Art or music teacher Cinematographer Composer Film editor Multi-media artist Music critic Music director News broadcaster Producer and director Editor Curator Advertising creator Art director Interior designer Fashion designer Industrial designer Copywriter News writer Telecommunications Writer

4-Year Planner for Arts and Communications (AC) Pathway

	Grade 9	Grade 10	Grade 11	Grade 12
English	Academic English 9 College Prep. English 9	Academic English 10 College Prep. English 10	Academic English 11 College Prep. English 11	Academic English 12 College Prep. English 12
Science	Biology	Environmental Science	Physical Science Organic Chemistry Forensic Chemistry Applied Physics Agriscience	Physical Science Organic Chemistry Forensic Chemistry Applied Physics Agriscience
Social Studies	World Cultures	American History	Government	Sr. Social Studies
Math	Algebra Linear Algebra Algebra II Geometry	Algebra II Functional Algebra Geometry Trigonometry	Practical Geometry Non-Linear Algebra Algebra II Geometry Trigonometry Statistics Pre-Calculus	Technical Math Money Management Geometry Trigonometry Statistics Pre-Calculus Calculus
Required Elective	Health 9 Computer Applications		Health 11	
Physical Education	Physical Education 9	Physical Education 10	Physical Education 11	

Pathway Electives (Other electives are available...see Course Offerings for more choices)

Spanish I German I Art I Current Events Hist. of Amer. Music I Journalism Drama I Mythology Keyboarding I Sr. High Band Sr. High Chorus	Spanish I, II German I, II Art I, II Hist. of Amer. Music I, II Movie Study Public Speaking Journalism Drama I, II Mythology Creative Writing Current Events	Spanish I, II, III German I, II, III Art I, II, III Hist. of Amer. Music I, II Culinary Arts I Movie Study Public Speaking Journalism Drama I, II Mythology Creative Writing	Spanish I, II, III, IV German I, II, III, IV Art, I, II, III, IV Hist. of Amer. Music I, II Culinary Arts I, II Pastries Family and Consumer Ed. Consumer Education Movie Study Public Speaking Journalism
Family and Consumer Ed.	Video Production Photography Intro to Computer Prog. Keyboarding I, II Sr. High Band	World Geography Current Events Video Production Photography Intro to Computer Prog.	Drama I, II Mythology Creative Writing Current Events Video Production
	Sr. High Chorus Intro to Guitar Family and Consumer Ed. Consumer Education	Keyboarding I, II Sr. High Band Sr. High Chorus Intro to Guitar Family and Consumer Ed. Consumer Education	Photography Intro to Computer Prog, Keyboarding I, II Sr. High Band Sr. High Chorus Intro to Guitar

4-Year Planner for Arts and Communications (AC) Pathway

CCCTC Programs Aligned:	Commercial Art Cosmetology Culinary Arts Drafting and Design Welding
-------------------------	--

Business, Finance, and Information Technology (BFIT) Pathway

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

Are you interested in	Can you	Do you enjoy
 A business environment Office management Sales Computers and technology Presentations to groups Telecommunications Advertising Different work sites Record keeping 	 Work easily with others Organize your time Work with statistics Use computers and other technology Pay attention to details Solve problems Work independently Show initiative Work on a team 	 Meeting with groups Making budgets Organizing a project Planning an event Working with technology Selling products and services Processing numbers Preparing financial reports Following directions Learning new software programs

If you answered "yes" to many of these questions, you might consider a future in one of the sample occupations listed below.

Sample Careers

Entry	Technical/Skilled	Professional (4+ college)
 Customer service Representative Shipping and receiving clerk Telemarketer Advertising sales agent Bank teller Cashier Payroll clerk Title searcher Computer operator Accounts payable manager Administrative assistant Data entry Retail sales clerk Secretary Account executive 	 Computer salesperson Graph designer Retail technician Bank collection officer Claims adjuster Legal secretary Tax preparer Paralegal Computer support specialist Software engineer Computer programmer Production support analyst Desktop publisher Medical secretary Real estate agent Restaurant manager Sales representative 	 Marketing manager Certified public accountant Economist Financial manager E-commerce analyst Securities sales representative Systems software engineer Systems analysis Hospital administrator Human resources Manager Chief executive officer Manufacturing sales Representative Business analysts Project manager Sports and entertainment agent Actuary

4-Year Planner for Business, Finance, and Information Technology (BFIT) Pathway

	Grade 9	Grade 10	Grade 11	Grade 12
English	Academic English 9 College Prep. English 9	Academic English 10 College Prep. English 10	Academic English 11 College Prep. English 11	Academic English 12 College Prep. English 12
Science	Biology	Environmental Science	Physical Science Organic Chemistry Forensic Chemistry Applied Physics Agriscience	Physical Science Organic Chemistry Forensic Chemistry Applied Physics Agriscience
Social Studies	World Cultures	American History	Government	Sr. Social Studies
Math	Algebra I Linear Algebra Algebra II Geometry	Algebra II Functional Algebra Geometry Trigonometry	Practical Geometry Non-Linear Algebra Algebra II Geometry Trigonometry Statistics Pre-Calculus	Technical Math Money Management Geometry Trigonometry Statistics Pre-Calculus Calculus
Required Elective	Health 9 Computer Applications		Health 11	
Physical Education	Physical Education 9	Physical Education 10	Physical Education 11	

Pathway Electives (Other electives are available...see Course Offerings for more choices)

	Agriculture Ed. I Keyboarding I Spanish I German I Art I Current Events Hist. of Amer. Music I Journalism Sr. High Band Sr. High Chorus	Agriculture Ed. I, II Accounting I Business & Marketing Intro to Computer Prog. Keyboarding I, II Spanish I, II German I, II Art I, II Hist. of Amer. Music I, II Public Speaking Journalism Current Events Video Production Photography Sr. High Band Sr. High Chorus Intro to Guitar	Agriculture Ed. I, II, III Accounting I, II Personal Finance Sales and Marketing Intro to Computer Prog. Keyboarding I, II Spanish I, II, III German I, II, III Art I, II, III Hist. of Amer. Music I, II Culinary Arts I Public Speaking Journalism World Geography Current Events Video Production Photography Sr. High Band Sr. High Chorus Intro to Guitar	Agriculture Ed. I, II, III, IV Accounting I, II Personal Finance Sales and Marketing Intro to Computer Prog, Keyboarding I, II Spanish I, II, III, IV German I, II, III, IV Art, I, II, III, IV Hist. of Amer. Music I, II Culinary Arts I, II Movie Study Public Speaking Journalism World Geography Current Events Video Production Photography Sr. High Band Sr. High Chorus Intro to Guitar
--	--	--	---	---

4-Year Planner for Business, Finance, and Information Technology (BFIT) Pathway

CCCTC Programs Aligned:	Commercial Art Electrical Occupations Electronic Technology Cosmetology Culinary Arts
-------------------------	---

Engineering and Industrial Technology (EIT) Pathway

This Pathway is designed to cultivate students' interest, awareness and application to careers related to technologies necessary to design, develop, install, and maintain physical systems.

Are you interested in	Can you	Do you enjoy
 Building and construction Tools, equipment and materials Woodworking Math and science classes Fitness and sports Precision work Design and architecture Engineering Computer technology How things work 	 Apply science and math to the real world Read and understand directions Solve problems Understand and read maps Organize reports and people See a task through to completion Use a computer 	 Travel Working with your hands Designing/working with projects, models, and prototypes Working in a lab Working on a team Operating tools and equipment Paying close attention to detail

If you answered "yes" to many of these questions, you might consider a future in one of the sample occupations listed below.

Sample Careers

Entry	Technical/Skilled	Professional (4+ college)
 Carpet installer Drywall worker Roofer Machine operator Industrial machine mechanic Baggage handler Dock worker Freight handler Laborer Warehouse worker Apprenticeships	 Grader and dozer operator Electrical technician Metal engineering technician Supervisor Welder Civil engineering technician Robotics technician CAD/CAM technician Laser technician Auto mechanic Air traffic controller Auto body repair Bus driver 	 Construction manager Cost estimator Industrial production manager Purchasing agent Astronaut Nuclear engineer Petroleum engineer NASA scientist Chemical engineer Technical writer Architect Civil engineering Industrial engineering Masharized engineering
 Brick mason Carpenter Electrician HVAC Plumber Machinist Surveyor Diesel mechanic 	 Diesel mechanic Dispatch Motorcycle mechanic Taxi driver Truck driver 	 Mechanical engineering Aeronautical engineer Aerospace engineer Airline pilot Transportation engineer

4-Year Planner for Engineering and Industrial Technology (EIT) Pathway

	Grade 9	Grade 10	Grade 11	Grade 12
English	Academic English 9 College Prep. English 9	Academic English 10 College Prep. English 10	Academic English 11 College Prep. English 11	Academic English 12 College Prep. English 12
Science	Biology	Environmental Science Organic Chemistry Physical Science Applied Physics	Physical Science Organic Chemistry Applied Physics	Physical Science Organic Chemistry Applied Physics Physics AP Chem
Social Studies	World Cultures	American History	Government	Sr. Social Studies
Math	Algebra Linear Algebra Algebra II Geometry	Algebra II Functional Algebra Geometry Trigonometry	Practical Geometry Non-Linear Algebra Algebra II Geometry Trigonometry Statistics Pre-Calculus	Technical Math Money Management Geometry Trigonometry Statistics Pre-Calculus Calculus
Required Elective	Health 9 Computer Applications		Health 11	
Physical Education	Physical Education 9	Physical Education 10	Physical Education 11	

Pathway Electives (Other electives are available...see Course Offerings for more choices)

Ed. I g I	Agriculture Ed. I, II Intro to Computer Prog.	Agriculture Ed. I, II, III AP Computer Science	Agriculture Ed. I, II, III, IV
ents her. Music I nd	Keyboarding I, II Power & Structure I Drafting Technology I Pre-Engineering Spanish I, II German I, II Art I, II Hist. of Amer. Music I, II Public Speaking Current Events Video Production Photography Sr. High Band Sr. High Chorus Intro to Guitar	iOS Development iOS Development Intro to Computer Prog. Keyboarding I, II Power & Structure I, II, III Drafting Technology I, II Pre-Engineering Manufacturing Small Engine/Welding Spanish I, II, III German I, II, III Art I, II, III Hist. of Amer. Music I, II Culinary Arts I Public Speaking Creative Writing World Geography Current Events Video Production Photography Sr. High Band Sr. High Chorus	AP Computer Science iOS Development Intro to Computer Prog. Keyboarding I, II Power & Structure I, II, III Drafting Technology I, II Pre-Engineering Manufacturing Small Engine/Welding Spanish I, II, III, IV German I, II, III, IV Art, I, II, III, IV Hist. of Amer. Music I, II Culinary Arts I, II Public Speaking Creative Writing World Geography Current Events Video Production Photography Sr. High Band Sr. High Chorus
		Sr. High Chorus Intro to Guitar	Sr. High Chorus Intro to Guitar
	Technology ents her. Music I and horus	TechnologyKeyboarding I, II Power & Structure I Drafting Technology I Pre-EngineeringentsSpanish I, II German I, II Art I, II Hist. of Amer. Music I, II Public Speaking torusundCurrent Events Video Production Photography Sr. High Band Sr. High Chorus	TechnologyKeyboarding I, IIiOS DevelopmentPower & Structure IIntro to Computer Prog.Drafting Technology IKeyboarding I, IIPre-EngineeringPower & Structure I, II, IIIentsSpanish I, IIper. Music IGerman I, IIArt I, IIPre-EngineeringHist. of Amer. Music I, IISmall Engine/WeldingPublic SpeakingSpanish I, II, IIInorusVideo ProductionPhotographyHist. of Amer. Music I, IISr. High BandCulinary Arts ISr. High ChorusPublic SpeakingIntro to GuitarCreative WritingWorld GeographyVideo ProductionPhotographySr. High BandSr. High ChorusPublic SpeakingIntro to GuitarStructure I, II, IIISr. High ChorusPublic SpeakingSr. High ChorusPublic SpeakingSr. High ChorusStructure I, II, IIISr. High ChorusPublic SpeakingSr. High ChorusStructure I, II, IIIStructure I, II, IIIStructure I, II, IIIStructure I, II, IIIStructure I, II, IIISr. High ChorusPublic SpeakingIntro to GuitarStructure I, II, IIIStructure

4-Year Planner for Engineering and Industrial Technology (EIT) Pathway

CCCTC Programs Aligned:	Electrical Occupations Welding Auto Collision Carpentry
	Automotive Technology Diesel
	Precision Information Science
	Electronic Technology Computer Information Science
	Drafting and Design

Human Services (HS) Pathway

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

Are you interested in	Can you	Do you enjoy
 Working with people Owning your own business Aging adults Child development Family and social services Food preparation Teaching Counseling 	 Organize well Plan and direct programs Be creative Communicate well Assume leadership roles Work with a team Be conscientious and dependable Plan budgets 	 Communication services Helping and protecting others Working with people Counseling and advising people Serving others' needs Interviewing people Selling products or services Handling customer complaints Human problems

If you answered "yes" to many of these questions, you might consider a future in one of the sample occupations listed below.

Sample Careers

Entry	Technical/Skilled	Professional (4+ college)
 Child care worker Cosmetic representative Dry cleaning operator Home health aide Library assistant Teacher's assistant Postal services worker Security guard Utility worker Aerobics instructor Waitress Baker Travel agent 	 Barber Cosmetologist Fashion designer Manicurist Massage therapist Mortician Truck driver Personal trainer Teacher's aide Firefighter Postmaster Police officer Flight attendant Chef 	 Funeral director Therapist Counselor Professor Principal Teacher Criminologist FBI agent Lawyer Police officer Park ranger Executive chef Food services manager Hotel/motel management

	Grade 9	Grade 10	Grade 11	Grade 12
English	Academic English 9 College Prep. English 9	Academic English 10 College Prep. English 10	Academic English 11 College Prep. English 11	Academic English 12 College Prep. English 12
Science	Biology	Environmental Science	Physical Science Organic Chemistry Forensic Chemistry Applied Physics Agriscience	Physical Science Organic Chemistry Forensic Chemistry Applied Physics Agriscience
Social Studies	World Cultures	American History	Government	Sr. Social Studies
Math	Algebra Linear Algebra Algebra II Geometry	Algebra II Functional Algebra Geometry Trigonometry	Practical Geometry Non-Linear Algebra Algebra II Geometry Trigonometry Statistics Pre-Calculus	Technical Math Money Management Geometry Trigonometry Statistics Pre-Calculus Calculus
Required Elective	Health 9 Computer Applications		Health 11	
Physical Education	Physical Education 9	Physical Education 10	Physical Education 11	

Pathway Electives (Other electives are available...see Course Offerings for more choices)

4-Year Planner for Human Services (HS) Pathway

	Health Occupations Commercial Art Cosmetology Culinary Arts
--	--

Science and Health (SH) Pathway

This Pathway is designed to cultivate students' interests in the life, physical and behavioral sciences. In addition, it involves and planning, managing and producing of therapeutic services, diagnostic services, health information and biochemistry research and development. Many of the careers involved with the food, fiber, environmental and natural resource systems fall under this pathway

Are you interested in	Can you	Do you enjoy
 Health care environment Science and medicine Medical research Food production Environment and conservation Pharmacy Animals Physical therapy Sports and fitness Information systems Radiology 	 Pay attention to detail Use a computer and technology Work in a lab setting or medical facility Apply scientific theory to real life problems Work outdoors around animals and plants Collect and analyze data from experiments Work with people in need Work with science and math theories 	 Diagnosing and caring for sick animals Working outdoors with wildlife Working on cutting edge scientific research Working on a team Medical lab research Making a contribution to society Working with numbers Developing conclusions from a database

If you answered "yes" to many of these questions, you might consider a future in one of the sample occupations listed below.

Sample Careers

Entry	Technical/Skilled	Professional (4+ college)
 Hospital worker Patient care technician Dialysis technician EEG technician Home health aide Nurse's aide, orderlies Pharmacy technician Physical therapy aide Animal caretaker Breeder Extension service worker Wildlife reserve worker Optician Data Entry Farmer 	 Certified nursing assistant Dental hygienist Emergency medical technician Licensed practice nurse Medical lab technician Personal trainer Radiological technician Respiratory therapist Dental lab technician Fish and game worker Forest conversationalist GPS technician Surveyor Veterinary Technician 	 Athletic trainer Speech/Language pathologist Dietician Physician assistant Medical examiner Pharmacist Physician Registered nurse Marine biologist Soil conversationalist Veterinarian Chemist Environmental scientist Zoologist Nuclear engineer

4-Year Planner for Science and Health (SH) Pathway

	Grade 9	Grade 10	Grade 11	Grade 12
English	Academic English 9 College Prep. English 9	Academic English 10 College Prep. English 10	Academic English 11 College Prep. English 11	Academic English 12 College Prep. English 12
Science	Biology	Environmental Science Organic Chemistry Biology II	Biology II Organic Chemistry AP Chem Medical Terminology Anatomy and Physiology Microbiology AP Biology Inorganic Chemistry	Biology II Organic Chemistry AP Chem Medical Terminology Anatomy and Physiology Microbiology AP Biology Inorganic Chemistry
Social Studies	World Cultures	American History	Government	Sr. Social Studies
Math	Algebra Linear Algebra Algebra II Geometry	Algebra II Functional Algebra Geometry Trigonometry	Practical Geometry Non-Linear Algebra Algebra II Geometry Trigonometry Statistics Pre-Calculus	Technical Math Money Management Geometry Trigonometry Statistics Pre-Calculus Calculus
Required Elective	Health 9 Computer Applications		Health 11	
Physical Education	Physical Education 9	Physical Education 10	Physical Education 11	

Pathway Electives (Other electives are available...see Course Offerings for more choices)

	Agriculture Ed. I Spanish I German I Art I Current Events Hist. of Amer. Music I Journalism Drama I Mythology Keyboarding I Sr. High Band Sr. High Chorus	Agriculture Ed. I, II Spanish I, II German I, II Art I, II Hist. of Amer. Music I, II Movie Study Public Speaking Creative Writing Current Events Photography Intro to Computer Prog. Keyboarding I, II Sr. High Band Sr. High Chorus Intro to Guitar	Agriculture Ed. I, II, III Spanish I, II, III German I, II, III Art I, II, III Hist. of Amer. Music I, II Culinary Arts I Movie Study Public Speaking Creative Writing World Geography Current Events Photography Intro to Computer Prog. Keyboarding I, II Sr. High Band Sr. High Chorus Intro to Guitar	Agriculture Ed. I, II, III, IV Spanish I, II, III, IV German I, II, III, IV Art, I, II, III, IV Hist. of Amer. Music I, II Culinary Arts I, II Movie Study Public Speaking Creative Writing World Geography Current Events Photography Intro to Computer Prog. Keyboarding I, II Sr. High Band Sr. High Chorus Intro to Guitar
--	--	---	---	--

4-Year Planner for Science and Health (SH) Pathway

CCCTC Programs Aligned:	Health Occupations Computer Information Sciences Electronic Technology
-------------------------	--

Course Descriptions

English Courses

Academic English - (Grade 9)

English 9 General is designed for the student who is not planning to attend college but will enter the workforce upon graduation or seek no-college post-secondary training. The reading selections include a survey of all literary genres. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, informational, and persuasive pieces. Students are expected to develop discussion and note-taking skills. In addition, students must prepare and deliver two formal speeches.

College Prep English - (Grade 9)

English 9 College Prep is designed for the student planning to attend college. The reading selections include a survey of all literary genres. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, information and persuasive pieces. Students are expected to develop college-level discussion, research, and note-taking skills. In addition, students must prepare and deliver two formal speeches.

This course is designed to be academically challenging and will receive a weighted grade. The district recommends that this course be taken only by students proficient in language arts.

Academic English - (Grade 10)

English 10 General is designed for the student who is not planning to attend college but will enter the workforce upon graduation or seek no-college post-secondary training. The reading selections emphasize word literature. Vocabulary is incorporated through a variety of methods. Writing includes a reinforcement of basic narrative, informational, and persuasive pieces with an emphasis on the composition format. Students are expected to develop discussion and note-taking skills. In addition, students must prepare and deliver two formal speeches.

College Prep English - (Grade 10)

English 10 College Prep is designed for the student planning to attend college. The reading selections emphasize world literature. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, information and persuasive pieces. Students are expected to develop college-level discussion, research, and note-taking skills. In addition, students must prepare and deliver two formal speeches. This course is designed to be academically challenging and will receive a weighted grade. The district recommends that this course be taken only by students proficient in language arts.

Academic English - (Grade 11)

English 11 General is designed for the student who is not planning to attend college but will enter the workforce upon graduation or seek no-college post-secondary training. The reading emphasizes American literature. Vocabulary is incorporated through a variety of methods. Writing includes a reinforcement of basic narrative, informational, and persuasive pieces with an emphasis on the composition format. Students are expected to develop discussion and note-taking skills. In addition, students must prepare and deliver two formal speeches.

College Prep English - (Grade 11)

English 11 College Prep is designed for the student planning to attend college. The reading selections chronologically survey American literature, emphasizing American history and philosophy. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, information and persuasive pieces and a research paper. Students are expected to develop college-level discussion, research, and note-taking skills. In addition, students must demonstrate proficiency in public speaking. This course is designed to be academically challenging and will receive a weighted grade. The district recommends that this course be taken only by students proficient in language arts.

Academic English - (Grade 12)

English 12 General is designed for the student who is not planning to attend college but will enter the workforce upon graduation or seek no-college post-secondary training. The reading selections include a survey of all literary genres with an emphasis on British literature. Vocabulary is incorporated through a variety of methods. Writing includes poems, stories, narrative, informational, and persuasive pieces. Students are expected to develop discussion, research, and note-taking skills. In addition, students must demonstrate proficiency in public speaking. There is a strong component of career exploration and future planning.

College Prep English - (Grade 12)

English 12 College Prep is designed for the student planning to attend college. The reading selections chronologically survey British literature, emphasizing British history, and philosophy. Vocabulary is incorporated through a variety of methods. Writing includes narrative, information and persuasive pieces with emphasis on the college-level essay format. Students are expected to develop college-level discussion, research, and note-taking skills. In addition, students must demonstrate proficiency in public speaking. This course is designed to be academically challenging and will receive a weighted grade. The district recommends that this course be taken only by students proficient in language arts.

Advanced Placement English Literature and Composition - (Grade 12)

AP 12 is an offering based on nationally established curriculum guidelines. The course must consistently meet the guidance established by the College Board. This course has an end of course assessment. The course is meant to challenge both student and instructor to the highest critical reasoning and expression skills.

Young Adult Literature 1 - (Grades 9-12) - Cyber only

Students enrolling in Young Adult Literature will read novels published primarily in the last ten years. Selections will be from a variety of genres, including realistic fiction, science fiction, fantasy, dystopian fiction, multicultural literature, graphic novels, and award winners. Students will examine the historical development of the young adult literature genre, characteristics of young adult literature, and current trends. Students will also continue to develop skills in literary analysis and interpretation through a variety of activities, including discussion, writing, projects, and presentations.

Young Adult Literature II - (Grades 9-12) - Cyber only

Students enrolling in Young Adult Literature II: Paired Texts will focus on nonfiction materials published primarily in the last ten years. Paired with the nonfiction texts will be texts written in other formats, such as fiction, novels in verse, and graphic novels. The readings will also be supplemented with shorter non-fiction texts, such as blog posts, social media feeds, newspaper articles, and magazine/journal articles – chosen by the instructor and the students. The goal is to enhance knowledge in a variety of content areas, such as science, health, and social studies, while studying current, high-interest texts in different formats from varying points of view. Students will also continue to develop skills in analysis of both fiction and nonfiction, comprehension, and interpretation through a variety of activities, including discussion, writing, projects, and presentations.

Mathematics Courses

Algebra I

The content of the Algebra 1 course is based on the assumption that all students have obtained competency in the four basic operations with whole numbers, fractions, and decimals. Topics covered include: solving equations, operations on polynomials, factoring, graphing, solving systems of equations and solving word problems.

Algebra II - (Prerequisite: Algebra I)

This course reviews and enhances the concepts and skills learned in first year Algebra. Algebra II includes an extended study of operations on polynomials, graphs of linear equations, and solving quadratic equations. Additionally, students will master the skills of solving inequalities, absolute values, and solving systems of two and three equations. More advanced topics will include the operations on both irrational numbers and complex numbers. One of the highlights of the course will be the opportunity to utilize the graphing calculator to develop insights and an appreciation for the use of today's technology in the field of mathematics.

Plane Geometry - (Grades 9-12) (Prerequisite: Algebra II - can be taken concurrently)

The geometry course is designed to develop and extend the logic and reasoning ability of each student. The concept of a proof, both inductive and deductive, is developed throughout the course. Topics covered include: logic, congruent and similar triangles, polygons, circles, constructional, and area. This course will encourage students to think creatively and independently.

Trigonometry - (Grades 10-12) (Prerequisite: Geometry)

This course provides working knowledge and applications of plane trigonometry, analytical geometry, and advanced topics in algebra. The trigonometry portion of the course deals with solving both right and oblique triangles, graphs of trigonometric functions and solving trigonometric equations. Additional topics covered in this course include: complex numbers, polar coordinates and equations, exponential and logarithmic functions, sequences and series, and conic sections. There will be a strong emphasis placed on "real-life" applications of trigonometric skills.

Pre-calculus - (Grades 11-12) (Prerequisite: Trigonometry)

The principal objective of Pre-calculus is to provide those students planning on taking college-level math and science courses with the best possible understanding and integration of algebra, trigonometry, analytical geometry, and discrete math. Students will be expected to solve problems algebraically, numerically, and graphically. Real-life applications and data from various fields of science, business, economics, engineering, and statistics will be used extensively. Students will be exposed to numerous problem-solving techniques, many including the use of technology. All students will be expected to use a graphing calculator to visualize and solve problems.

Calculus - (Grade 12) (Prerequisite: Trigonometry)

This course begins with an in-depth analysis of elementary functions. A transformational approach is utilized in graphing quadratic, polynomial, and rational functions. Extensive coverage of polynomial functions and theory of equations provides the background for learning concepts of calculus – limits, continuity, differentiation, and integration. Applications of differentiation and integration are investigated. This course is designed to be computational and an intuitive approach is used.

Algebra A - first half of Algebra I

Algebra B - second half of Algebra I

Statistics - (Grades 11-12)

In this course we will understand the differences among various kinds of studies and which types of inferences can legitimately be drawn from each, understand histograms, parallel box plots, and scatterplots and use them to display data, and compute basic statistics and understand the distinction between a statistic and a parameter. Also, we will understand how sample statistics reflect the values of population parameters and use sampling distributions as the basis for informal inference and understand the concepts of sample space and probability distribution and construct sample spaces and distributions in simple cases.

Applied Geometry - (Grades 10-12 completion of Alg I or Alg. 2 recommended)

This course is a practical approach to geometry. The topics covered will be tools/terminology of geometry, parallel and perpendicular lines, triangle theory, quadrilaterals, similarity, applied trigonometry, area and volume of shapes.

Technical Math - (Grades 11-12 - Algebra II recommended)

This course is designed for those students who learn best through an applied approach. The text, from the Manufacturing community (NTMA), will help prepare students for an apprenticeship or career in the technical/manufacturing industry. The topics covered will be those valued by industry; namely measurement, number sense, geometry, and trigonometry.

Money Management (12th Grade)

Money Management will incorporate topics covered in previous math courses in an everyday setting; a foundation in Algebra is encouraged. The content of this course will include topics of income, taxes, insurance, banking, etc. Real-life simulations and/or projects will be used when appropriate for instruction and/or evaluation. The use of the Chromebook, HAC, and Canvas will be an integral part of the technology instruction used in this course. When appropriate, guest speakers will be coming to the class to share their expertise on different subjects.

Social Studies Courses

World Cultures - (Grade 9) (Required)

This course covers the development of the major cultures of the world. The cultural development of man will be followed from early existence through today's technologically advanced world. Emphasis will be placed on differences and similarities of various cultures and their views on politics, religion, and their contribution to today's world.

US History III - (Grade 10) (Required)

During this course, students will study what Historians now refer to as "Modern American History." Starting with a brief refresher of World War II, we will trace and connect the many political, social, and economic events that have shaped the United States to our present day. We will connect and analyze major events following WWII including the Cold War, the Korean Conflict, 1950s Suburbanization, the Space Race and the New Frontier, the Great Society, the domestic Civil Rights Movement, Counter Culture, Vietnam War, Watergate, 1970s unrest in the Middle East, the Conservative 1980s, the Persian Gulf Conflict, the 1990s and the New Millennium.

Government - (Grades 11-12) (Required)

This course is required for students before they graduate, preferably in 12th grade. Students will study government at the local, state and national levels. Students will also study the Judicial, Legislative, and Executive branches of government. There will also be a focus on Pennsylvania's role in the development of our country.

Psychology (11-12) (Elective)

An introduction to the science of psychology. Students will investigate theories, topics, and applications in the field of psychology across biological, cognitive, social, developmental and clinical areas. Students learn to identify ways in which the science of psychology affects everyday lives and gain knowledge in multiple areas of psychology. The course will highlight connections among different areas of psychology and identify ways in which different perspectives contribute to a fuller understanding of human behavior

AP Human Geography (11-12) (Elective)

The Advanced Placement Geography gives students the opportunity to earn college credit in geography while still in high school. More importantly, the content of an AP Geography course helps students develop critical thinking skills through the understanding, application and analysis of the fundamental concepts of geography. Through AP Geography, students are introduced to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students will employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. Students will meet the five college-level goals as determined by the National Geographic Standards. They also learn the methods and tools geographers use in their science and practice. Students who take AP Human Geography can seek college credit and/or advanced placement from institutions of higher learning.

Advanced Placement United States Government and Politics (Grade 11-12)

The College Board developed AP U.S. Government and Politics as an introductory college-level course in U.S. government and politics. Students will cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. This course would be an accelerated, honors-type course that would also allow students to take the AP Exam at the end for college credit.

Legal Studies (11-12) (Elective)

This course offers high school students an opportunity to analyze legal careers and the origins/purposes of laws of all types and jurisdictions. This course, in cooperation and accordance with the American Bar Association, covers the Constitution and several of its key amendments, due process, environmental law, voting, structure of the judicial system, jobs within the legal system, intellectual property, human rights, news literacy, and civic involvement. Students will also be required to read, write, and share (both verbally and through writing) on several cases of their personal interest.

Current Events - (Grades 9-12) (Elective)

The Current Events course is based upon a thematic approach, where the students, on an international, national, and local level will investigate several topics. Students are required to analyze and critique various topics and illustrate the relationship/impact that can occur within these three levels. Students will utilize the following resources to examine the predetermined topics: USA TODAY newspaper, TIME Magazine and on-line periodical database. In a given week, approximately two class periods will be spent having students research articles related to the assigned topic. Approximately two additional class periods will be dedicated to the student preparation of the analysis and the presentation. And one class period will be committed to students submitting their final product for that particular topic. Students will be evaluated through a variety of presentation techniques that include, but are not limited to, reports, debates, presentations and models. This course is designed to enhance and provide increased opportunity for student reading, writing, and speaking. Strategies utilized in this course encourage the use of print material, technology and critical thinking skills.

Listening to History (11-12) (Elective)

Students will examine and analyze significant artists, songs, historical events, and movements and how significantly they have impacted both domestic American History and world events. Students will examine events through a political, economic, and social analysis in line with current CSD approved Social Studies curriculum. Focus will be on studying a historical event, analysis of music and lyrics, and writing and debating contemporary and retrospective views. The course will primarily examine 20th century events and relevant protest music, theatre production screenplay/lyrics, poetry and/or literature with some nod to early American History (American Revolution/Civil War).

Exploring Citizenship (11-12)

This course is a practical exploration of the legal aspects of citizenship and adulthood in America. At the end of this course, you will be able to analyze their Individual Rights and Responsibilities as an American. Understand how to interpret the US Census and the form and function of local and state elected offices. You will shift from passive receivers to critically engaged participants in American Society with hands-on practice skills of interpretation and critical analysis. Finally, you will be exposed to practical legal processes and consumer practice common to every American Citizen.

Geography - (Grades 9-12) (Elective)

This course is designed so the learner will be able to obtain practical geographical information about the world's countries, regions, and cultures. At the end of this course you will understand how to use maps,tools, and technology to report information. You will understand the various types of government and economies throughout the world while being able to explain how humans interact in the world.

Science Courses

Environmental Science (Grades 10-12)

Environmental Science is an essential course for citizens in today's global community, The purpose of Environmental Science is to introduce the dynamics of environmental systems as well as analyze environmental concerns, both local and global. Topics covered will include: earth's spheres (biosphere, atmosphere, geosphere, hydrosphere), community ecology (ecosystems; biotic & abiotic factors, relationships), energy flow and recycling of matter (food webs and chains, biogeochemical cycles), population ecology, biomes, and human impact on the environment.

Biology I - (Grade 9 - Required)

This course is intended to prepare students for the Biology Keystone Exam, as well as for future science courses such as Biology 2, Environmental Science, Anatomy & Physiology, and Microbiology. This course will introduce the following subject matter to students: characteristics of life, scientific method, basic biochemistry, photosynthesis, cellular respiration, structure and function of the cell, cell growth and reproduction, basic genetics, evolution, and an introduction to ecology.

Biology II - (Grades 10-12) (Prerequisite: Biology I)

This course is intended to be a continuation of Biology. It will provide students with a deeper understanding of genetics and the molecular basis for life and inheritance, allowing them to grasp evolutionary relationships and the diversity of life on Earth.

AP Biology - (Grades 11-12)

This Biology course is designed to help students build a solid foundation in a college-level Biology curriculum. We will use independent readings, class discussions, online resources, and laboratory exercises to develop this foundation. These actions, interwoven with oral, written, group, and individual activities, will foster an atmosphere of inquiry and discovery of the biological world around us. Students must maintain a lab notebook/portfolio, either hard-copy or electronic. This course is structured around the concepts of evolution, homeostasis, heredity, and ecology. This course is associated with the College in the Classroom Program sponsored by The University of Pittsburgh and the AP Program from the College Board.

Physics - (Grades 11-12) (Prerequisite: Trigonometry - can be taken concurrently) Concurrent Enrollment - can be taken for college credit

Physics is a survey of the physical concepts of kinematics, dynamics, statics, energy, waves, and thermodynamics. This course is designed to meet the needs of students who plan to continue study in the field of science and/or technology. This course is associated with the College in the Classroom Program sponsored by The University of Pittsburgh.

Applied Physics - (Grades 11-12)

Applied Physics is a hands-on approach to physics for those students who are considering a technological education. Principles motion, energy, momentum, optics, and electromagnetism will be explored in the laboratory environment, using the scientific method and engineering principles

Anatomy and Physiology - (Grades 11-12)

Human Anatomy and Physiology is designed to prepare students for college courses and technical courses in the medical or health fields, as well as those students simply interested in the anatomy and physiology of the human body. This course involves a systemic study of the body with emphasis on the skeletal, muscular, cardiovascular and nervous systems. Students will be exposed to the study of human and comparative anatomy, with specific emphasis placed on preparing students for careers in health care. Students will apply information acquired through text, web, simulation, and lecture sources to dissections and laboratory experiments. The text used in this course is written at the college level and should facilitate a smooth transition for students

Medical and Scientific Terminology - (Grades 10-12)

Medical terminology is designed to introduce students to basic medical language and terminology that they would need to enter a health care field. Emphasis will be placed on definitions, proper usage, spelling, and pronunciation. Students will employ a systematic word-building approach to master the complex terminology that pertains to body systems, anatomy, physiology, medical processes and procedures as well as a variety of diseases. The course includes but is not limited to terms related to anatomy of the human body, functions of health and disease, and the use of language in processing medical/dental records. Upon completion of this course the student should be able to understand the necessity of medical vocabulary, build medical words from component parts, and explain the meaning associated with each unit and identify and discuss basic pathology associated with all entities.

Microbiology - (Grades 11-12)

This course is designed for those students who want to study microorganisms and their activities. It is concerned with the form, structure, reproduction, physiology, metabolism and identification of microbes. Students will apply science and engineering practices to real-world investigations involving the study of microorganisms' distribution in nature, their relationship to each other and other living things, their effects on humans, and changes they make in their environment. Students will develop a working understanding of, and the skills necessary to, cultivate and study microorganisms in the laboratory.

Chemistry I - Inorganic Chemistry - (Grades 10-12) (Prerequisite: Algebra I)

This is a college preparatory basic level chemistry course. Fundamentals taught include the review and usage of the metric system, classification of matter, history of the development of atomic structure, the periodic table and its trends, bonding, stoichiometry, equilibrium, the Gas Laws, and acid base theory. Course includes laboratory experience that demonstrates concepts and experience laboratory methods common in a chemistry laboratory.

Chemistry 2 - Organic Chemistry - (Grades 11-12) (Prerequisite: Algebra I)

A large part of Advanced Chemistry will cover concepts of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Laboratory experiments reinforce the basic principles discussed in lecture as well as provide practical examples.

AP Chemistry - (Grades 11-12)

This AP Chemistry course is designed to offer students a solid foundation in chemistry, similar to what they would receive in a first year college chemistry course. The course is structured around the six big ideas articulated by the AP chemistry curriculum framework provided by the College Board. Labs and inquiry based activities are an essential part of this AP Chemistry course. The more opportunities students have to learn by doing and discovering, the deeper their understanding of the material will be. The process of inquiry in science and the development of critical thinking skills is a critical part of this course. Students will spend a significant percent of class time engaged in laboratory and inquiry based activities.

Forensic Science - (Grades 10-12)

Forensic Science is the application of science (chemistry, physics, and biology) to the criminal and civil laws that are enforced by police agencies in a criminal justice system. It includes the investigation of fingerprinting, fiber analysis, ballistics, arson, trace evidence analysis, poisons, drugs, blood spatters, and blood samples. Students are taught the proper collection, preservation, and laboratory analysis of various samples

Aeronautics I (Grades 9-10)

This introductory course will provide the foundation for advanced exploration in the areas of flying and unmanned aircraft systems. Students will learn about the engineering process, problem solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible.

Aeronautics II (Grades 10-11)

This course will introduce students to basic aircraft and UAS structures and their major components, principles of flight, and the fundamental physical laws affecting flight. Students will learn about basic aerodynamics and forces that act on aircraft in flight. This course will also introduce the main systems found on large and small airplanes and UAS.

Aeronautics III (Grades 11-12)

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

Aeronautics IV (Grade 12) -

After preparing for the Part 107 Remote Pilot Test in the previous year, this year, they will be using that certification—and the knowledge they acquired pursuing it—in real-world scenarios that illustrate how drones are used across a wide variety of industries today. Students will also learn how drone operations can be used to build or enhance a business, and the entrepreneurial skills necessary to get a start-up off the ground. They will also review drone rules within their communities, which will enable them to make recommendations to elected officials on how to optimize UAS technology and plan for the future where they live. Finally, students will learn about and conduct different types of research in preparation for their capstone project in the second semester.

Conservation Science (Grades 10-12)

Students will be learning the following topics: history of conservation, the North American Model of Wildlife Conservation, public land, and waters, private land conservation, hunting, fishing, trapping, and boating. This course will include laboratory experience demonstrating these topics in outdoor hands-on activities along with real-life professionals in the classroom from the game warden to DCNR for forest fires and an owner of a taxidermy business.

Science Applications (Grade 11-12)

The purpose of this course is to build science skills and literacy as well as provide a basic background for understanding various science topics to promote global citizenship. Topics covered will include: Biology, Earth Science, Physical Science, Chemistry, and Environmental Science with an emphasis on current events. Activities will include both virtual and physical labs; reading and writing, issues and decision making; and use of models.

Animal Science (Grades 10-12) - Cyber only

This course is directed toward teaching the basic science concepts involved in the productions of agricultural animals. It contains the latest up-to-date information regarding the scientific aspect of the agricultural industry. All facets of modern agriculture are based on science. The science of agriculture has brought humans from the stage of wandering and gathering food to modern civilization.

Physical Education & Health

Physical Education - (1/2 credit - Grades 9 & 11, full credit - Grade 10; optional Grade 12)

The students will receive instruction in the areas of team, individual and life-time sports. They are encouraged to participate in group activities which help to enhance their physical development and coordination ability.

Health Education - (1/2 credit Grades 9 & 11)

This course is designed to aid students in evaluating their own health knowledge and behavior so they are better equipped to face the critical health issues of today. Students will look closely at their own lifestyles, learn skills to change negative behavior, and set goals for improving their well being. Students will participate in simple experiments, self-inventories, and projects related to topic areas.

Pre-EMT - (Grade 11-12)

This course is designed to introduce students to the information and skills required of an EMR or EMT-Basic. After successful completion of this program, the student should be able to perform the following functions:

1. Recognize the nature and seriousness of the patient's condition or extent of injuries to assess requirements for emergency medical care.

2. Suggest how to administer appropriate emergency medical care based on assessment findings of the patient's condition.

3. Demonstrate how to lift, move, position and otherwise handle the patient to minimize discomfort and prevent further injury.

Once the student completes this course, he/she will have been exposed to the knowledge and skills that are required to enroll in an emergency medical technician (EMT) or emergency medical responder (EMR) course taught by a certified instructor. This course **does not** qualify you to take a certification exam or apply for a state licensure.

Elective Courses

Agriculture Education I

The Agriculture Education I course is a one-credit introductory course, which meets one period per semester. The course includes wildlife management, supervised occupational experiences, Future Farmers of America, agriculture mechanics, animal science, plant science, agriculture careers, and safety. All studies lead to skill development for meeting occupation objectives in agriculture. The laboratory facilities of the shop, greenhouse, tree farm, and educational field trips are used. Students put knowledge and skills learned into practice through their supervised occupational experience projects. Students are required to purchase materials to complete agricultural mechanics and supervised occupational experience projects. No prerequisite courses are required.

Agriculture Education II, III, IV - (Prerequisite: Agriculture Education I)

The Advanced Agriculture Course is an advanced elective for students in grades 10, 11, and 12. The class is a one-credit course which meets one period per semester. Advanced Ag. courses will be offered on a 3-year cycle. Topics on agricultural education will be offered on a rotating basis so that, should a student complete the 3-year cycle, they will be exposed to all curriculum offerings for advanced agriculture. Any of the advanced courses may include: units of instruction in forestry, supervised occupational experience, Future Farmers of America, agricultural mechanics, animal science, soil science, farm business management and safety. Supervised occupational experience projects are required. They are to become larger in scope and complexity of management. Students are expected to develop individual and group leadership plans and set a proper example for younger members.

SAE - Supervised Agricultural Experience (9-12)

SAE/Supervised Agricultural Experience is designed for students who are also enrolled in an Agriculture Education course. Students will be required to have a Supervised Agricultural Experience (SAE) project. This is a project done both in and outside of class time. A record book will be used and regularly updated with the SAE and will also be graded. Students must maintain and submit a record book to get full credit. Students will use the website: <u>http://www.theaet.com/</u>. It will be the responsibility of the student to keep accurate records each week and submit these records weekly to the instructor. In the SAE/Supervised Agricultural Experience course students will gain skills in record keeping and managing finances.

Agri-Science (11-12)

Agriscience is meant to give students an opportunity to study science with an emphasis on the world related to agriculture. The course is an in-depth study of soils, plants, and animals as well as the environment, food safety and the future of agriculture. Various careers in the agricultural industry will also be explored.

Animal Science (10-12)

This course is directed toward teaching the basic science concepts involved in the productions of agricultural animals. It contains the latest up-to-date information regarding the scientific aspect of the agricultural industry. All facets of modern agriculture are based on science. The science of agriculture has brought humans from the stage of wandering and gathering food to modern civilization.

Art I - (Beginner) (Grades 9-12)

This course is designed to meet the needs of students who have an interest in enhancing their creativity, knowledge, and range of skills in art and design. Topics that will be covered are: Commercial Art/Graphic Design, Design and Composition, Color Theory and Painting, 3-Dimensional Design, 20th Century Art History and drawing and perspective. Emphasis is placed not only on developing skills, but on producing a quality product, problem-solving, and following directions. Students can expect lessons that are structured but allow for ample creativity.

Art II - (Intermediate) (Grade 10-12)

Second course in Art and Design. Differs from the Beginning Course in that a wider range of materials and media will be used and that a higher level of technical skill is expected. Drawing, painting, and both 2- and 3-dimensional design skills will be stressed. Careers in the visual arts will also be explored.

Art III and IV - (Advanced) (Grades 11-12)

This course is for students who have a serious interest or advanced skills and have successfully completed both Beginning and Intermediate courses. Topics such as art styles, media, and technique will be explored. Students will be required to display content as well as skill in their work. Students can expect to produce a large amount of work as a means of discovering personal strengths, style, and career direction.

Photography (11-12)

This course is for students who have a serious interest in taking quality photographs or in exploring it as a career interest. The course will cover: Basic 35mm camera operation and care, photographic composition, creative control of the camera, special effects, layout and display, careers in photography, and shooting color film. Limited to 16 students due to camera availability.

Video Productions (11-12)

This course will provide students with a basic understanding of the video production process. In this hands-on, cooperative learning environment students will learn each stage of video production, and will master the skills necessary to work with the equipment and software involved in basic digital video production and basic television broadcast. Students will also explore the elements of media, journalistic integrity, copyright law, and basic Cinematography as they complete various projects for the course. Students will develop these skills through a variety of both group and individual projects.

Creative Writing - (Grades 9-12)

This is an elective course designed for students who wish to develop or enhance their creative writing skills. Students will read and analyze various types of prose and poetry models and write their own prose and poetry incorporating the techniques studied. Through constant practice of various literary techniques, students will develop their own writer's voice.

Journalism - (Grades 9-12)

This course is for students to use photography and journalism techniques to create the school newspaper. Students will work to complete various projects that will incorporate writing assignments, layouts, and photographic techniques. Although photography is not a prerequisite, knowledge of photography will greatly enhance the quality of the finished product.

Mythology - (Grades 9-12)

Students will become acquainted with prominent archetypes and themes through stories drawn from around the world. The course is designed to create awareness of other people's cultural bases and increase both respect for others and an appreciation of our own place in the world. In addition, the course will offer experiences in researching and selecting appropriate tales, organizing information, and planning and performing a dramatic presentation.

Drama I (Grades 9-12)

Students shall investigate the basic components of the Dramatic Arts. This may include theater history and important playwrights from different historical periods and their works. Technical topics for investigation may include: acting, lighting, scene design, costuming, and make-up. Whenever possible, a hands-on approach will be utilized with students participating in appropriate lab work. Assignments may include the reading of representative scripts of various types. Mini-productions may be rehearsed and performed.

Drama II - (Grades 10-12)

This class will focus on the production of minor/major productions. Students will be expected to memorize, rehearse, and perform various types of plays. Both onstage and backstage personnel will be needed

Movie Study (Grades 9-12)

Students will recognize classic film characters, plots, themes, actors, and music and understood allusions to these films in other media. Students will understand the basic language of film and the ways it communicates messages to the audience.

Public Speaking (Grades 9-12)

Open to students in grades 10-12, Public Speaking is an introductory course that explores the traditional formal communication process and aims to help students build confidence speaking in front of an audience. Techniques for practical speech writing, anxiety reduction, and visual aid usage are utilized.

Chorus (Grades 9-12)

This class provides a great opportunity for senior high students to study and perform vocal music. The development of vocal skills and musicianship will be the primary focus of the class and the acquired skills will be put into practice in several performances throughout the year. We will use a wide variety of music to achieve the objectives of this class, from classics to contemporary selections.

Concert Band (Grades 9-12)

Students are provided the opportunity to advance their music talents in an instrumental group situation. The class meets daily, all year, for 40 minutes. Weekly group lessons are provided and required. **Students are strongly encouraged to participate in the other instrumental musical organizations (marching band, jazz band, small ensembles) in the school. However, they are not required to do so to be in Senior High Band.** Since this is a performing group, four graded performances, after school hours, are required. Additional graded performances may be added.

Modern Band (9-12)

This class is an exploration into production and creation of popular music through the medium of a modern "rock" band for students in grades 9 - 12. Students will be provided with the opportunity to learn and grow in basic knowledge of guitar, keyboard, bass, drum set, vocals, and creation of music through a "rock" combo. This course is designed so that any level of student can be a part of the ensemble and directed towards growth on each of the instruments

History of American Music I & II (Grades 9-12)

The primary focus is developing the listening capacities of the student by exposing him continually to diverse pieces of contemporary music. The majority of this will be what might be called "popular" music such as rock, folk, country-western, and other forms, as yet unlabeled, but existing within and between these three major forms. The area of jazz and jazz-rock will be explored. Lastly, new experimental styles will be studied that have contributed to the direction of the earlier stated forms. In this group we shall include electronic music for therein, computer, synthesizer, and other electronic instruments. Chance music, improvisation, and multimedia music as well as music for television, films and radio will be explored. The recording industry will also be studied to expose to students what is actually necessary to have a "hit" record from the writing of the song to the million dollar contracts for a film or television show. Musical theater will be touched upon in light of the musical appropriateness of different shows. Great concern will always be exerted in an analysis of the meaning of improvisation as listened to in jazz and other forms.

AP CSP - Computer Science Principles (Grades 9-12)

AP Computer Science A is equivalent to a first-semester, college level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing 40 data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object oriented imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science course curriculum is compatible with many CS1 courses in colleges and universities.

Intro to Computer Programming - (Grades 9-12)

This course is designed to help develop the student's logical thinking and problem solving skills. The concepts introduced in the literacy course will be greatly expanded. The computer language presently used is True BASIC, designed by the same two authors of the original BASIC. The student will write computer programs to solve a variety of problems using If/Then statements, For-Next loops, DO loops, single and double dimension arrays, counters, and sums, as well as various input and output commands. The students will be introduced to Hypercard stacks and will learn navigation using programmed buttons (similar to a link on the web).

IOS Applications Development - (Prerequisite: Pass Algebra I with at least a "C" and completion of a previous computer course)

IOS App Development using Swift and Xcode introduces students to computer science topics such as problem solving, design and methodologies. By the end of the course, students will have designed and created their own basic apps that can run on an iPhone or iPad. Swift is an open-source, relatively new programming language designed to build IOS and OS X apps that builds on the best of C and Objective-C, without the constraints of C compatibility. The language is much easier to learn than C languages and shares a lot of syntactical similarities with Java language. Xcode is an incredibly productive environment for building amazing apps for Mac, iPhone, and iPad.

AP CSA Computer Science Applications (Programming) (Prerequisite: Pass Algebra I with at least a "C" and completion of either AP CSP or Intro to Prog.)

AP Computer Science A is equivalent to a first-semester, college level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object oriented imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science course curriculum is compatible with many CS1 courses in colleges and universities.

Web Site Design and Development (10-12) Concurrent enrollment - can be taken for college credit

The objective of this course is to provide a basic understanding of the methods and techniques of developing a simple to moderately complex website. Using the standard web page language XHTML and HTML5, students will be instructed on creating and maintaining a simple website. After the foundation language of XHTML as well as HTML5 has been established, the aid of an Internet editor – Dreamweaver or Aptana – will be introduced. To further enhance the web sites, a second language, Java Script, will be included. Finally, Web site design and layout techniques as well as basic search engine analysis will be added to enhance the students practical design skills.

Keyboarding I - Basic Digital Information Management (Grades 9-12)

Keyboarding 1 is intended for all high school students, grades 9-12. This introductory course is designed to develop proper keyboarding form and function. Students learn and improve their touch-typing skills for personal and business use. Emphasis is placed on improving keyboarding speed and accuracy through proper form and procedures as well as developing skills in formatting various business documents in Microsoft Office (Word, Excel, and PowerPoint). Students will encounter proofreading, language arts, and decision-making activities and business simulations.

Technology utilized: Microsoft Office, Typing.com, Internet

Keyboarding II - Advanced Digital Information Management (Grade 10-12)

Keyboarding 2 is intended for those students in grades 10-12 who have passed Keyboarding 1 and wish to enhance their skills in Microsoft Office and various desktop publishing programs. They will be introduced to more sophisticated formatting for such documents as newsletters, booklets, brochures, posters, flyers, tables, charts, presentations, transcription, and integrated reports, letters, and memos. This will be achieved through daily lessons, bulletin board displays, and various business simulations. Technology utilized: Microsoft Office + Publisher, Canva.com, Pinterest, Internet

Accounting I - (Grades 10-12)

Accounting 1 is offered to students in grades 10-12 and is intended for students who wish to understand the financial end of business. Students will learn recordkeeping for a proprietorship from the start of a company to the end of its fiscal year. Proper documentation, procedures, and reasons for all business transactions will be studied and practiced, culminating in a year-end simulation of a service business's first month of operation. This will include Accounts Receivable, Accounts Payable, checkbooks, and reports. Students will be prepared for basic record keeping employment, future study, or personal use. Technology utilized: Excel and QuickBooks accounting software (Intuit.com)

Accounting II - (Grades 10-12) (Prerequisite: Accounting I)

Accounting 2 is offered to students in grades 11-12 who have passed Accounting 1 and seek to learn bookkeeping for a merchandising business with employees. Students will learn recordkeeping for a store from the start of a company to the end of its fiscal year. Proper documentation, procedures, and reasons for all business transactions will be studied and practiced, culminating in a year-end simulation of a merchandising business's first month of operation. This will include a study of Accounts Receivable, Accounts Payable, Payroll, inventory, and year-end reports as major components. Students will be prepared for advanced recordkeeping employment, future study, or personal use.

Technology utilized: Excel and QuickBooks accounting software (Intuit.com)

Accounting III – (Grade 12)

Accounting 3 is intended for students who wish to analyze the financial end of business. Students will learn creation and evaluation of business practices and procedures. Using Excel, proper documentation, procedures, and calculation for common business reports (Income Statements, Balance Sheets, etc.) will be studied and practiced, culminating in a year-end simulation of a business's last month of the fiscal year. Accounting 3 students will conduct their simulation in QuickBooks accounting software and will be able to add that marketable knowledge to their resume. Students will be prepared for advanced recordkeeping employment, future study, or personal use.

Technology utilized: Excel and QuickBooks accounting software (Intuit.com)

Business and Marketing - (Grades 10-12)

This course is designed to introduce students to the tools used in sales and marketing to attract and maintain customers. Emphasis is on hands-on activities involving the sports, entertainment, automotive, and recreation industries. Some of the concepts learned will be the importance of branding, promoting, selling, and supporting products to meet customer needs. Students will learn how sales and marketing work together to improve customer satisfaction and increase profits.

Drafting Technology I (Grades 9-12)

Drafting is designed to accelerate student learning in order to keep pace with the expansion of subject matter in the drafting field. A broad foundation of the subject matter is stressed. Areas of study include career planning, lettering, measuring, sketching, use and care of instruments, projection, auxiliary views, sectional views, pictorial drawings, surface developments and computer-assisted drafting.

Drafting Technology II (Prerequisite: Drafting I) (Grades 10-12)

Drafting II is designed to stimulate the student's thinking and problem-solving ability. Problems are arranged in a sequence according to level of difficulty. Areas of study include those of Drafting Technology I, plus assembly drawings, dimensioning, fasteners, technical illustration, and computer-aided design and drafting.

Pre-Engineering (Grades 10-12)

A relationship exists between design and engineering. The critical thinking, problem solving, and decision-making of engineering first requires creative thinking and the use of technology to design innovative solutions.

Diversified Technologies - (Grade 9)

The student will be exposed to a variety of technology experiences in the manufacturing and communication areas. The introduction of manufacturing systems will involve the students in the different aspects necessary to understand how the manufacturing process works in the development of new products. Knowledge about materials, processes, management, automation and business organization will be covered in the manufacturing portion. In communications, students will be involved in the use of current drafting technologies and how it relates to manufacturing and construction methods.

Power and Structure I - (Grades 10-12)

Students will combine prior knowledge and experiences with new exposure to machine woodworking operations and methods. Students will be assigned projects with specific size and limitations. The student will be involved in the entire manufacturing process: research, design, drawing, planning, and construction of his/her own individualized project. With this approach, the student has a chance to progress at his/her own rate and to exercise his/her own desires. Students will be expected to pay for a portion of their total project prior to beginning of the project. The balance of payment for the project will be due upon completion and removal of the project from school property.

Power and Structure II - (Grades 11-12)

Course content will be the same as Wood Technology I, since these courses are taught in a combined class. The students at this level will be given more responsibilities and will be expected to perform at a higher level of proficiency. Students will combine prior knowledge and experiences with new exposure to machine woodworking operations and methods. The student will be involved in the entire manufacturing process: research, design, drawing, planning, and construction of his/her own individualized project. With this approach, the student has a chance to progress at his/her own rate and to exercise his/her own desires. Students will be expected to pay for a portion of their total project fee prior to the beginning of the project. The balance of payment for the total project will be due upon completion and removal of the project from school property.

Power and Structure III - (Grade 12)

Course content will be the same as Wood Technology II, since these courses are taught in a combined class. The students at this level will be given more responsibilities and will be expected to perform at a higher level of proficiency. Students will combine prior knowledge and experiences with new exposure to machine woodworking operations and methods. The student will be involved in the entire manufacturing process: research, design, drawing, planning, and construction of his/her own individualized project. With this approach, the student has a chance to progress at his/her own rate and to exercise his/her own desires. Students will be expected to pay for a portion of their total project fee prior to the beginning of the project. The balance of payment for the total project will be due upon completion and removal of the project from school property.

Welding/Small Engines - (Grades 11-12)

Welding/Small Gas Engines is designed to introduce students to the fundamentals of agricultural mechanics focusing on welding and small gas engines. Students learn basic terminology used in the agricultural mechanics industry, safe work practices, agricultural tools and metal skills. Welding/Small Gas Engines is a shop/laboratory oriented course that emphasizes basic knowledge and application of shop safety rules and proper use of tools and materials. SMAW, MIG, TIG, oxyacetylene welding and cutting skills, and principles of small gas engines are learned. Skill and age-appropriate projects are constructed to give students opportunities to apply agricultural mechanics principles. Welding/Small Gas Engines also includes agricultural leadership and employability skills.

Family and Consumer Science - (Grades 9-10)

This is a comprehensive, foundation course designed to assist students in developing core knowledge and skills needed for successful life planning and management. The 4 content areas of the FACS curriculum will be explored in a variety of ways. This course provides a foundation for managing individual, family, career, and community roles and responsibilities, achievement, responsibilities within the family, and accountability for personal safety and health. Students will also explore financial management, sewing education, and food preparation; and apply problem-solving and leadership skills as they progress through the course.

Consumer Education - (Grade 10-12)

This is a comprehensive course in which students will develop a basic understanding of the economy, manage personal and family finances, and make informed buying decisions; demonstrate knowledge of issues such as credit use, on-line banking, bill payment and banking basics, identity theft, and investment options; develop the ability to think critically, solve problems, make decisions, and manage resources. Students will be provided with a number of hands-on activities which will reinforce concepts through application. Employability Skills is also a main focus in this course.

Culinary Arts I - (Grades 11-12)

Culinary Arts is offered to advance student understanding in the areas of food choice and nutrition and meal planning; with a focus on food preparation and kitchen basics including kitchen tools, food safety and sanitation. Additionally, they will understand the relationship between geographic location and history of a region to the cuisine of various cultures; demonstrate competency in a variety of food preparation areas; and participate in hands-on food labs and unit projects which will reinforce concepts through application.

Culinary Arts II - (Grades 12)

Culinary Arts II will advance students understanding in the areas of food choice and nutrition and meal planning; develop culinary knowledge and practical skills including safety and sanitation, knife skills, use of large and small equipment, analyze and execute various recipes using a myriad of food preparation techniques; use sensory evaluations to understand herbs and spices and their role in creating flavor profiles. Additionally, students will demonstrate competency in a variety of food preparation areas. Will participate in "hands-on" food labs and projects which will reinforce concepts through application

Baking & Pastry Arts - (Grade 11-12)

This course is designed to provide students a foundation for the successful understanding and execution of baking recipes and techniques. It will build upon prior knowledge and serve as an inspiration for new ideas and challenges. Students will learn the basics of mixing, shaping and baking for several baked goods including quick breads, yeast breads, cakes, pastry doughs, mousses, sauces, glazes, cookies, candies and confections. Additionally, the opportunity to obtain the Serv Safe Food Handler certification will form the basis for safe food handling and give students an industry-wide certification

Child Development - (Grades 11-12)

Increase student knowledge in the areas of physical, emotional, social, and intellectual development at the various stages of child development; Describe the decisions and preparations parents must make for the needs of their children; Describe the changes that affect a woman and fetus during pregnancy; Outline the causes, symptoms, and treatments of various childhood illnesses.

Personal Finance - (Grades 11-12)

This course gives students a consistent framework for thinking through financial choices in order to improve their well-being. Decisions require actions. Students who take charge of their finances are better prepared to invest in themselves and cope with the financial ups and downs that life will bring. Topics will include financial responsibility and decision making, investing options, identity theft, insurance and risk management, use of credit and saving.

Theories of Leadership (Grades 11-12) Concurrent enrollment - can be taken for college credit

This course is designed to acquaint students with multiple theories and practices associated with effective leadership. In answering the question, "What is leadership?" It examines such theories as situational, participative, transformational, and servant leadership. Consideration is given to issues of followership and the many roles we play in life. The class also addresses those leadership and administrative skills and practices usually associated with effective professional management

Introduction to Human Nutrition (Grades 11-12) Concurrent enrollment - can be taken for college credit

This course will cover an overview of the scientific principles of nutrition and their applications to humans throughout the lifecycle. Topics include classification and function of the six major nutrients, review of current nutrition standards, safety of the food supply, and nutrition misinformation. Students will gain a knowledge of the role of nutrition in promotion of a healthy lifestyle, disease prevention theories and guidelines, the six categories of nutrients with respect to function, recommended amounts, major food sources, guidelines for intake and digestive pathways; changes in dietary requirements across the lifespan and how to critically evaluate nutrition information in popular media.

Spanish I (Grades 9-12)

Spanish I is an introduction of the Spanish language and Hispanic culture. Mastery of basic vocabulary and structures are acquired through example and actual use. Emphasis is on communicating in Spanish in real-life situations. All four language skills (listening, speaking, reading, and writing) are practiced. As the year progresses, Spanish is increasingly used as the language of instruction.

Spanish II - (Grades 10-12)

Spanish II continues Spanish I's objective of developing a basic grasp of the language for real-life circumstances. All four language skills are practiced. Most classroom communication will be in Spanish, with English used for occasional clarification. Emphasis remains on actual communication, along with vocabulary and further investigation of Hispanic culture.

Spanish III - (Grades 11-12)

The goal at this level is to further increase fluency in Spanish, using the "Target Language" as much as possible. Discussions and instruction will be almost exclusively in Spanish. All four language skills are practiced. Students will become more familiar with the culture of Spanish-speaking countries.

Spanish IV - (Grade 12)

Students' functional level of fluency allows them to communicate almost entirely in Spanish. There will be a concentration on longer, more complex pieces of literature, songs, and video arts to practice language skills and deepen their understanding of Hispanic culture and history.

German I (Grades 9-12)

This course introduces the German speech sounds and vowel combinations. Sentence structure patterns are introduced in sequence through oral exercises and dialogues. Oral and written drills on vocabulary and basic speech patterns move in progression toward mastery of basic grammatical concepts. The emphasis in this course involves oral comprehension, speech, and basic writing skills of the target language. Culture is discussed on an ongoing basis—each chapter contains a culture section. Maps, posters, film strips, and any authentic German articles are used to enrich the learning environment.

German II - (Grades 10-12)

This course is a continuation of German I. More emphasis is placed on culture.

German III - (Grades 11-12)

German III is a continuation of materials from German II. Students are expected to increase proficiency in oral comprehension as well as the ability to speak the German language. Cultural information includes more information on German history, as well as short articles written by German authors. Information is given on different dialects spoken. Current events as they occur are related and discussed, i.e., the deployment of Pershing and cruise missiles in West Germany, German reunification, and economic reforms as they relate to the 90's.

German IV - (Grade 12)

This course is a continuation of German III. This entire course is taught in the target language. This includes the review at the beginning of the semester. Emphasis is placed on vocabulary expansion (including idiomatic expressions); historical personalities from the areas of politics, art, music, and sports; and contemporary individuals. Discussions compare and contrast various aspects of German/American life.

Future Educator Experience - (Grade 12)

The Future Educator Experience course is designed for those seniors who are considering a career in education and wish to serve in a cooperative capacity with a teacher in the Conneaut School District. The student will serve a minimum of one period per day in the cooperative classroom for four days per week. The fifth day will be reserved for classroom instruction with the cooperative education supervisor. The student will receive one elective credit for the course. A portfolio will be constructed for future use in college and career. Our program will concentrate on the PA Career Education and Work standards with a multifaceted approach to examining the teaching profession as a whole and, then, as individuals. Coursework will include an examination of past coursework and planning for future course selections including human development, history of education, current trends, curriculum and instruction methods and materials, and practical experience in a teacher's classroom.

Dual Enrollment or Concurrent Enrollment Opportunities 11-12

Dual Enrollment courses can be taken for college credit and CASH elective credits. They will appear on the high school transcript. University transcripts are provided from the colleges for students to use with their future academic institutions.

Dual Enrollment may be offered online through universities such as Penn West, Gannon or Liberty. These offerings may vary from semester to semester. There is generally a discounted cost for tuition and possible cost for textbooks, which is paid by the student. The contract and billing agreement is between the student and the university.

Concurrent Enrollment courses will be University of Pitt classes taught by CASH faculty. These courses will be for one CASH credit and three college credits.

*Physics *Intro to Human Nutrition *Theories of Leadership *Website Design and Development

CRAWFORD COUNTY CAREER AND TECHNICAL SCHOOL OFFERINGS

Auto Collision Technology (3)

This course includes instruction in the removal of dents, repair of rusted or damaged panels, Replacement and installation of parts and accessories, preparation and refinishing of spot repairs, complete auto painting and refinishing, straightening of frame structures.

Automotive Technology (3)

This NATEF certified course provides instruction in the diagnosis, repair and adjustment of problems related to gasoline powered motor vehicles.

The Automotive Technician must determine what tools and parts are necessary to repair the car, estimate the cost of repair, and discuss the entire situation with the customer before finally making the appropriate repairs.

Carpentry (3)

Carpenters make up one of the largest groups of skilled workers in the nation's labor force. They deal with the construction of buildings, using assorted materials such as metal, wood, stone, brick, glass, or concrete. Instruction is provided in the basic skills of carpentry, masonry, and a variety of activities associated with building construction, such as cost estimating, cutting, fitting, fastening, and finishing various materials. Students will use a variety of hand powered tools, learn print reading, follow technical specifications, and acquire knowledge concerning the physical properties of materials.

Computer Information Sciences (3)

Computer and Information Sciences program is designed to prepare students to repair & maintain computers and to achieve their CompTIA IT Fundamentals and CompTIA A+ certifications. These nationally known certifications are vendor neutral and are recognized by major companies worldwide. Their focus is on PC hardware and software repair, and networking. The students will gain knowledge of how to perform tasks such as installations, configuration, diagnostics, and preventative maintenance of a PC. Students learn the skills through hands-on activities, research projects, and textbook assignments. The network portion focuses on the features and functions of networking components, and installing, configuring and troubleshooting basic networking hardware and services.

Cooperative Education- Co-Op (Senior Year)

Cooperative Education (Co-op) is a method of training whereby the student combines classroom instruction with on-the-job training in a career area of his/her choice. It is a unique plan of education designed to integrate classroom study with planned, supervised, practical work experience. "Learning by doing" is the key to Cooperative Education. The program helps students relate schoolwork to actual "real world" employment.

Cosmetology (3)

Cosmetology graduates are creative, focused, and ambitious. They enjoy working with their hands and value the aesthetic. In this program, students will learn how to clean, shape, style, color, and texturize hair, as well as care for skin and nails. But, beyond these artistic skills, they'll also learn the structure and composition of specific human anatomy and basic business principles and practices.

Culinary Arts and Restaurant Management (3)

The Culinary Arts & Restaurant Management course provides theory and practice for food preparation and service required for success in the food service industry. Students learn how to operate and care for kitchen equipment, prepare and serve food, plan menus and a variety of skills required to operate and maintain a restaurant. Students practice their serving techniques at the on-site restaurant. Participants have the opportunity to achieve multiple national certifications.

Diesel Technology (3)

The Diesel Technology course prepares students for the future by including the study of small engine technology along with the training in diesel service and maintenance. The course offers training in all areas of mechanics including diagnosis, overhaul and maintenance for automotive, agricultural, trucking and recreational vehicles. Students are able to train, test and qualify for the PA State Inspection License. All this adds up to an exciting and valuable training opportunity for the future mechanical technician.

Diversified Occupations - CO-OP (senior)

This is a unique educational program designed to integrate classroom study in employability and life skills with planned, supervised and practical work experience. Students are supervised by the CTC Co-Op coordinator. Students must work at least 15 hours during the work week and can earn up to 4 credits.

Drafting and Design Technology (3)

Drafting & Design provides students with a thorough technical knowledge of the principle methods by which CADD operators, draftspersons, technicians, and designers communicate with those who fabricate material. The course stresses the relationship between theory and practice. The student learns application of principles that provide entry level skills and "hands-on" experiences on the drafting board and CADD. The course concentrates on communication, leadership skills, positive work attitude, self-discipline and safety. All this aids the students' transition to the world of work or college. Articulation agreements with area colleges provide proficient students with advanced placement credits.

Electrical Occupations (3)

Electrical equipment is increasingly important in our high-tech society. There are numerous opportunities for individuals who would like to enter the electrical field. Electrical equipment technicians install, maintain, and repair the equipment found in factories, business offices, hospitals, schools, stores, and homes. The Electrical Occupations course will provide an opportunity for students to obtain an understanding of the many careers that involve electricity and electrical theory.

Electronic Technology (3)

Trained personnel in the Electronics Industry design, develop, fabricate, install and service electronic equipment. The classroom, along with related laboratory experiences, form a trained foundation for personnel in Electronics. Electronic personnel usually specialize in one type of equipment or one area of industry. Some of these specialties are: Radio and TV broadcasting, aviation navigation & instrumentation, telephone equipment, medical monitoring and measurement, industrial process control & automation, communications equipment, computers and radar.

Health Occupations (3)

The Health Occupations Program is designed to offer the foundation of knowledge and skills necessary for a career in the health field. A combination of classroom instruction and hands-on application prepares students for employment in this field. Students also learn clinical skills that are applicable toward the state-tested nurse aide exam. In addition, they receive education on the characteristics and expectations of a health care worker.

HVAC (3)

The Heating, Ventilation, Air Conditioning (HVAC) Technology program will prepare students to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. The program will have a solid educational base on which to build a post-secondary degree or advanced certifications

Precision Machining (3)

Precision Machinists are highly skilled workers who provide tools, molds and special guiding and holding devices that are used to mass-produce a variety of metal and plastic parts. Machinists set up and operate all types of basic and advanced machine tools using precision measuring instruments. Through our program, students gain a basic understanding of machine tools, measuring instruments, metals and blueprint reading to prepare them for entry level positions in manufacturing. Their desire for continuing education and willingness to learn puts them at a distinct advantage in this rapidly evolving industry.

Sports Medicine (3)

The purpose of the Sports Medicine – Rehabilitative Sciences program is to prepare students to assist in rehabilitation services under the supervision of physical therapists, occupational therapists, speech/language pathologists, nutritionists, sports medicine professionals and other therapeutic professionals, and to perform routine functions in support of rehabilitation

Veterinary Sciences (3)

The Veterinary technology program will prepare individuals, under the supervision of veterinarians, laboratory animal specialists, and zoological professionals, to provide patient management, care, clinical procedure assistance, and owner communication. Students will receive training to enter entry level positions, as well as a solid educational base on which to build a post-secondary degree.

Welding (3)

Today's Welders must be able to do many kinds of welding. Students in the welding program gain a solid background in the theory and "hands-on" experience which meet today's employers' needs. Students learn through a competency based program which includes theory and blueprint reading. Safety is stressed in all areas of welding. Fabrication skills are experienced by completion of projects and related school work-orders.



CSD GRADUATION PATHWAYS

PATHWAYS TO GRADUATION

Act 158 of 2018 prescribed multiple pathways for students to meet Pennsylvania's assessment requirement for graduation. The state released the criteria for alternate assessments in spring 2020. These requirements affect the **Class of 2023** and beyond. You must meet the criteria of <u>one</u> of the following pathways to achieve a diploma.

PATHWAY 1: KEYSTONE PROFICIENCY	PATHWAY 2: KEYSTONE COMPOSITE						
Reach "Proficient" or "Advanced" on each Keystone Exam	on at "Basi d	Students must earn "Proficient" or "Advanced" on at least <u>one</u> Keystone Exam & earn at least a "Basic" score on the other <u>two</u> Keystone Exams & have a composite score of: 4452					
		KEYSTONE EXAM CUT SCORES					
		Content Area	Below Basic	Basic	Proficient	Advanced	
		Algebra I	1200-1438	1439-1499	1500-1545	1546-1800	
		Biology	1200-1459	1460-1499	1500-1548	1549-1800	
	4452	Literature	1200-1443	1444-1499	1500-1583	1584-1800	

PATHWAY 3: ALTERNATE ASSESSMENT

Students will meet local requirements for academic content covered by the Keystone Exams for all subjects where they did not earn proficiency on the Keystone exam (Algebra, Biology, Literature).

AND ONE OF THE FOLLOWING

Attain an established score on an approved alternate assessment <u>or</u> complete one of the last three bulleted items.

Approved alternate assessments are:

- Advanced Placement Exam 3 or higher
- **PSAT**—970
- **SAT**-1010
- ACT-21
- ASVAB—minimum score required to gain admittance to a branch of the armed services in the year the student graduates
- Successfully complete a dual enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least proficiency
- Successfully complete a pre-apprenticeship program. (This must be related to career choice, registered and approved)

• Be accepted in an accredited 4-year, nonprofit institution of higher education and evidence of the ability to enroll in college level coursework.

PATHWAY 4: EVIDENCE-BASED (THREE PIECES OF EVIDENCE REQUIRED)

Students will meet local requirements for academic content covered by the Keystone Exams for all subjects where they did not meet proficiency on the Keystone Exam (Algebra, Biology, Literature).

AT LEAST ONE OF THE FOLLOWING (OR MORE)

Attainment of	OR	Acceptance to a	OR	Attainment of an	OR	<u>Successful</u>	
<u>an established</u>		<u>4-year</u> accredited		industry-recognize		completion of	
score on an		nonprofit institution		<u>d</u> credential		<u>dual</u> enrollment	
<u>alternate</u>		<u>of higher</u>				<u>or</u>	
<u>assessment:</u>		<u>education</u>		 Documentation 		post-secondary	
 SAT Subject 				that verifies		<u>course</u>	
Test: 630		 Acceptance Letter 		attainment as			
• AP: 3-5 related		 Placement Tests 		defined by the		 Credit-bearing 	
to student		• College		Office of		 Aligned to 	
career choice		Registration • Local		Elem/Sec		Keystones	
		Profile of HS GPA		Education			
AND UP TO TWO OF THE FOLLOWING							

 Must goals, p proje comi Superv adult in supe Sufficit to comi spec 	rvice Learning Project <u>Completion</u> t include project learning project activities, and the ects contribution to the munity. vised and assessed by an It; completion is verified writing by adult ervisor ient duration and intensity address identified munity needs and meet cified ect learning goals	AND / OR	<u>"A</u> <u>K</u> • Scalec higł	<u>"Proficient" or</u> <u>Advanced" on a</u> <u>(eystone Exam</u> ed scored of <u>1500</u> or gher on one ystone Exam		AND / OR	Letter Guaranteeing Full_Time Employment
				AND / OR	Compliance with the National College Athletic Association's (NCAA) core courses for college bound student athletes • Minimum GPS requirements (2.0) in approved NCAA core courses		

PATHWAY 5: CAREER & TECHNICAL EDUCATION						
Students will meet local requirements for academic content covered by the Keystone Exams for all subjects where they did not earn proficiency on the Keystone Exam	AND	Either attain an industry-based competency certification related to the career and technical education (CTE) concentrator's program of study.	OR	Demonstrate a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE concentrator's program of study.		

For additional information contact your School Counselor or go to:

https://www.education.pa.gov/K-12/Assessment%20and%20Accountability/GraduationRequirements/Act158/Pages/Requirements.aspx