



COCALICO
SCHOOL DISTRICT

Cocalico High School

Educational Planning Guide

For the School Year 2022-2023



CTCs focusing
today's
education
toward
tomorrow's
success

Every Child...Every Chance...Every Day...

Cocalico High School

Educational Planning Guide

2022-2023

This Educational Planning Guide is intended to provide students and their parents with information about the educational program, graduation requirements, and courses of study at Cocalico High School.

Planning your program for four years of high school requires self-appraisal with regard to your capabilities, interests, and goals. A familiarity with the various courses of study and a knowledge of the required courses are needed for sufficient progression in the educational process.

Serious consideration should be given to your selection of courses which will be consistent with your chosen pathway, aptitudes, interests, abilities, and post-high school plans.

Cocalico High School will make a serious attempt to schedule you for all of the courses you desire. Please note that in some cases enrollment changes and staffing needs may dictate the cancellation of certain elective courses and advanced courses. It is, therefore, important to consider alternate options when planning your selection of courses. Students and parents are invited to consult with teachers and counselors for assistance in planning their program. Parents may make appointments with counselors by calling 717-336-1427 or 717-336-1442.

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Andrew Price.....	High School Assistant Principal
Jessica Townsley.....	High School Assistant Principal
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Cocalico

School District

Every Child. Every Chance. Every Day

Cocalico High School
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<u>Course</u>	<u>Code</u>	<u>Credit</u>	<u>Pg.</u>	<u>Course</u>	<u>Code</u>	<u>Credit</u>	<u>Pg.</u>
<u>Agriculture</u>			25	<u>English/Communication Arts Cont.</u>			
				Research Skills	025	1.0	43
<u>Art Education</u>				Yearbook Production I	044	1.0	44
Introduction to Studio Art (2D)	480	1.0	29	Yearbook Production II	045	1.0	44
Advanced 2D Studio Art	481	1.0	29	Yearbook Production III	046	1.0	44
Independent Study/Portfolio	482	1.0	30	Yearbook Production IV	047	1.0	44
Foundations to Ceramics & 3D	483	1.0	30	<u>Family and Consumer Sciences</u>			
Contemporary Throwing and Hand Building	484	1.0	30	Foods and Baking	596	1.0	45
Advanced Wheel Throw and Hand Build 3D	485	1.0	30	Sewing and Fashion Design	581	1.0	45
Independent Advanced Clay and 3D	487	1.0	31	Sewing and Fashion Design II	584	1.0	45
				Adult and Family Living	599	1.0	46
<u>Business</u>				Child Development	570	1.0	46
Career & Financial Awareness	424	1.0	32	<u>Learning Support</u>			
AP Microeconomics	423	1.0	33	Direct Instruction Classes			47
Computer Programming	404	1.0	33	S.K.I.L.L.S	879	1.0	48
Economics Through the Stock Market	405	1.0	33	Study Skills/Transition	884	1.0	48
Accounting I	408	1.0	34	Art in Action	488	1.0	48
Accounting II	409	1.0	34	Adapted Physical Education	816	.5	49
Accounting III	410	1.0	35	<u>Mathematics</u>			
Microsoft Office & Inf. Technologies	413	1.0	35	Pre-Algebra	098	1.0	51
Entrepreneurship and Management	420	1.0	36	*Algebra IA	103A	1.0	51
Cocalico Internship	427	1.0	36	* ^k Algebra IB	103B	1.0	51
Marketing	426	1.0	36	* ^k Algebra I	103	1.0	52
<u>English/Communication Arts</u>				Keystone Enrichment-ALG	096	1.0	52
*English 9: Communication Arts	001	1.0	37	*Algebra II	113	1.0	52
*English 9: Communication Arts	030	1.0	38	*Honors Algebra II	114A	1.0	53
* ^k American Literature & Comp	003	1.0	38	*Geometry	123	1.0	53
* ^k English10: Communications Arts	031	1.0	39	*Honors Geometry	124A	1.0	53
*English 11: Communication Arts	032	1.0	39	*Pre-calculus/Trigonometry	135	1.0	54
*English 12: Communication Arts	033	1.0	39	*Honors Pre-calculus/Trig.	135A	1.0	54
*World Literature & Comp	014	1.0	40	*Statistics	140	1.0	54
*British Literature & Comp	004	1.0	40	*AP Statistics	142	1.0	55
Thematic Interpretations of Literature and Media	024	1.0	41	*Applied Calculus	143	1.0	55
*AP Literature & Composition	008	1.0	41	*AP Calculus AB	144	1.0	55
*AP Language & Composition	009	1.0	42	*AP Calculus BC	146	1.0	56
Language Acquisition	833	1.0	42	*AP Computer Science A	147	1.0	56
Literacy Enrichment	021	1.0	42	<u>Music</u>			
*Speech/Creative Writing	052	1.0	43	Music Production I	493	1.0	57
Journalism	022	1.0	43	Music Production II	494	1.0	57
				Music Theory	509	1.0	58
* NCAA							
k- Keystone Course							

<u>Course</u>	<u>Code</u>	<u>Credit</u>	<u>Pg.</u>	<u>Course</u>	<u>Code</u>	<u>Credit</u>	<u>Pg.</u>
<u>Music Cont.</u>				<u>Senior Elective Option</u>			
Music Theory II	495	1.0	58	Service Learning	925	.5	71
Applied Music Performance Guitar, Piano, Voice I	539	1.0	58	Financial Literacy	416	.5	71
Applied Music Performance Guitar, Piano, Voice II	540	1.0	58	Physical Education 12	608	.5	72
Movie Music (Modern Music Media)	497	1.0	59	Life-long Personal Communication Skills	055	.5	72
Choir I	500	1.0	59	Online Course		.5	72
Choir II	502	1.0	59	<u>Social Studies/Citizenship</u>			
Wind Ensemble I	507	1.0	59	*American Studies	702	1.0	73
Wind Ensemble II	510	1.0	60	*World Studies	703	1.0	73
Wind Ensemble I/Choir I	512	1.0	60	*Civics and Government	710	1.0	73
Wind Ensemble II/Choir II	516	1.0	60	*Psychology	720	1.0	74
Choralaires (Focus)	517	.5	61	*Sociology	721	1.0	74
Symphonic Band (Focus)	518	.5	61	*Military History	715	1.0	74
Symphonic Band/Choralaires (Focus)	519	.5	61	Contemporary Issues	735	1.0	74
<u>Physical Education/Health</u>				Local Studies	729	1.0	75
Physical Education 9	604	.5	62	*AP United States History	706	1.0	75
Health I	600	.5	62	*AP European History	730	1.0	75
Physical Education 10	606	.5	63	AP United States Gov. & Politics	734	1.0	76
Health/Driver's Education	613	.5	63	<u>Technology Education</u>			
Personal Fitness, Cardio & Strength Training	612	1.0	63	Wood Technology	522	1.0	77
Health and Wellness	616	1.0	64	Product Design	553	1.0	77
Basics of Fitness and Lifetime Activities	617	1.0	64	Digital Electronics	545	1.0	78
<u>Science</u>				PLTW Intro. to Engineering Design	534	1.0	78
*Principles of Science	201	1.0	65	PLTW Principles of Engineering	562	1.0	78
* ^k Biology	204	1.0	66	Digital Photography	548	1.0	79
* ^k Honors Biology	204A	1.0	66	Digital Design and Print Media	552	1.0	79
*Chemistry	207	1.0	66	Energy, Power & Transportation	523	1.0	79
*Chemistry II	212	1.0	67	Computer Aided Design and Drafting	533	1.0	80
*Chemistry in the Community	219	1.0	67	Construction Technology	524	1.0	80
*Physics	209	1.0	68	Manufacturing	527	1.0	81
*Principles of Technology	217	1.0	68	Digital Film Making	550	1.0	81
*Anatomy and Physiology	205	1.0	68	TV Production I	538	1.0	81
*AP Biology	206	1.0	69	TV Production II	541	1.0	82
*AP Physics	210	1.0	69	TV Production III	546	1.0	82
*Environmental Science	214	1.0	69	TV Production IV	547	1.0	82
Drones	220	1.0	70	Welding and Metal Fabrication	564	1.0	83
Introduction to Forensics	222	1.0	70	Precision Machining with CNC	565	1.0	83
*Astronomy and Meteorology	215	1.0	70				

* NCAA

k- Keystone Course

<u>Course</u>	<u>Code</u>	<u>Credit</u>	<u>Pg.</u>	<u>Course</u>	<u>Pg.</u>
<u>World Language</u>				<u>Lancaster County Career and Technology Center</u>	88
*Spanish I	301	1.0	84		
*Spanish II	302	1.0	84		
*Spanish III	303	1.0	85		
*Spanish IV	304	1.0	85		
*AP Spanish Language and Culture	316	1.0	85		
Spanish for Careers	318	1.0	86		
*German I	305	1.0	86		
*German II	306	1.0	86		
*German III	307	1.0	87		
*German IV	308	1.0	87		
AP German Language & Culture	317	1.0	87		

* NCAA

k- Keystone Course

Arts and Communications Pathway (AC)

This Pathway is designed to develop students' awareness, interpretation application, and production of visual, verbal, and written work. Careers in this pathway are linked to the humanities and include performing, visual, and literary arts as well as the communication media. Some occupations include those in creative writing, dance, editing, film, fine arts, graphic arts, journalism, modeling, music, photography, radio, telecommunications, theater, and translating.

PATHWAY FOCUS AREAS: Performing Arts, Visual Arts, Publishing Arts

<i>Are you interested in...</i>	<i>Can you...</i>	<i>Do you enjoy...</i>
News Reporting and Writing Interviewing and Reviewing Multi-Media Productions Acting Radio, TB, Film, Video Performing in a band, chorus Attending Concerts Designing logos or objects such as cars or toys	Sing Play an Instrument Be Creative Act Articulate Clearly Write and Conduct Interviews Meet Deadlines Sell Express yourself artistically	Writing Making Videos Working with Film props Seeking Creative Ideas Working with Sound Effects Performing in Front of a Live Audience Working with your hands to create Work with Computers

If you answered "yes" to most of these questions, you might consider a future in one of the sample occupations listed below based on their level of post-secondary training.

SAMPLE CAREERS

<i>Entry (OJT)</i>	<i>Technical/Skilled (1-3 yrs)</i>	<i>Professional (4 or + yrs)</i>
Model Radio Operator Stage Hand Stunt Performer Film Loader Floral Designer Florist Sound Technician Desktop Publisher Circulation Copy Person Newsroom Worker Announcers Dancer Photographer TV, Video & Motion Picture Operator	Actor Graphic Designer Choreographer Dancer Disc Jockey Musician Talent Agent Animator Jeweler Make-up Artist Recording Engineer Video Manager Web Designer *Desktop Publisher Culinary	Art or Music Teacher Cinematographer Composer Film Editor Music or Art Critic Music Director News Broadcaster Graphic Designer Culinary Architect Curator Advertising Creator Art Director Industrial Designer Copy Writer Telecommunications Illustrator Writer Interior Designer Producer & Director Editor Fashion Designer Multi-Media Artist

**High Priority Occupations – job categories that are in demand by employers, have higher skill needs, and are most likely to provide family sustaining wages*

Business, Information Management AND Marketing Pathway (BIMM)

This Pathway is designed to prepare students for careers in the world of business, finance, and information services. Careers in this pathway are in the fields of business and marketing. Some occupations include those in accounting, administrative support staff, advertising, computer science, distribution, finance, insurance, international business, management, marketing research, merchandising, personnel, purchasing, real estate, sales, and tourism.

PATHWAY FOCUS AREAS: Marketing and Sales; Finance; Information Technology; Business Management

<i>Are you interested in...</i>	<i>Can you...</i>	<i>Do you enjoy...</i>
A business environment Office management Sales Computers and technology Presentations to groups Telecommunications Advertising Different work sites Insurance Record keeping	Working easily with others Organize your time efficiently 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 and figures Preparing financial reports Following directions Learning new software programs

If you answered “yes” to most of these questions, you might consider a future in one of the sample occupations listed below based on their level of post-secondary training.

SAMPLE CAREERS

<i>Entry (OJT)</i>	<i>Technical/Skilled (1-3 yrs)</i>	<i>Professional (4 or + yrs)</i>
Customer Service Representative Reservation/Travel Agent *Telemarketer Book Keeper Cashier Payroll Clerk Title Searcher Computer Operator Accts. Payable Office Mgr. Admin. Assistant Bank Teller File Clerk Retail Sales Clerk School Secretary *Advertising Sales Agent	Computer Salesperson Retail Buyer Bank Collection Officer Tax Preparer *Claims Adjuster Software Engineer Computer Programmer Production Support Analyst Desktop Publisher Medical Secretary Real Estate Agent Restaurant Manager *Sales Representative *Computer Support Specialist	Marketing Manager Certified Public Accountant Economist *Financial Manager *Securities Sales Representative E-Commerce Analyst *Systems Software Engineer *Systems Analyst Hospital Administrator Human Resources Manager Chief Executive Officer Manufacturing Sales Representative *Management Analysts

**High Priority Occupations—job categories that are in demand by employers, have higher skill needs, and are most likely to provide family sustaining wages*

Engineering/Industrial & Technological Sciences Pathway (EITS)

This Pathway is designed to develop students’ interests, awareness, and application to areas related to technologies necessary for design, development, installation, and maintenance of physical systems. Careers in this pathway are related to engineering, science, technology, construction, manufacturing, and transportation. Some occupations include airline pilots, archeologists, architects, assemblers, carpenters, drafters, engineers of all types, machinists, mechanics, scientists, tool and die makers, and truck drivers.

PATHWAY FOCUS AREAS: Construction and Architecture; Engineering and Engineering Technology; Manufacturing; Transportation, Distribution and Logistics

<i>Are you interested in...</i>	<i>Can you...</i>	<i>Do you enjoy...</i>
Building and Construction Tools, Equipment and Materials Woodworking Math and Science classes Fitness and Sports Precision Work Design and Architecture Engineering Computer Technology Production Management Curious how things work	Apply science and math to real world Read and understand directions Solve problems of a complex nature Understand directives and read maps Organize reports and people See a task through to completion Use Computer	Travel Working with your hands Designing/working with projects, models and prototypes Working in a lab setting Working on a team Building with your hands Operating tools and equipment Pay close attention to detail

If you answered “yes” to most of these questions, you might consider a future in one of the sample occupations listed below based on their level of post-secondary training.

SAMPLE CAREERS

<i>Entry (OJT)</i>	<i>Technical/Skilled (1-3 yrs)</i>	<i>Professional (4 or + yrs)</i>
Carpet Installer Drywall Worker *Roofer Machine Operator Baggage Handler Dockworker Freight Handler Laborer Warehouse Worker *Industrial Machine Mechanic	Grader & Dozer Operator Electric Technician Metal Engineering Technician Auto Mechanic Air Traffic Controller Auto Body Repair Bus Driver Diesel Mechanic Dispatch Motorcycle Mechanic Taxi Driver Truck Terminal Manager Civil Engineering Technician Robotics Technician *CAD/CAM Technician Laser Technicians Production & Operating Workers Supervisor Welder Draftsman Digital Designer	Navigator Aeronautical Engineer Aerospace Engineer Airline Pilot Architect Civil Engineering Chemical Engineer Computer Network Engineering Industrial Engineer Mechanical Engineering Astronaut *Nuclear Engineer Petroleum Engineer NASA Scientist Transportation Engineer Industrial Production Manager Purchasing Agent Technical Writer *Construction Manager *Cost Estimators
<i>Apprenticeships</i>		
Brick Mason Carpenter Electrician *HVAC Plumber Machinist Diesel Mechanic Surveyor		

**High Priority Occupations — job categories that are in demand by employers, have higher skill needs, and are most likely to provide family sustaining wages*

Human and Family Services (HFS) Pathway

This Pathway is designed to develop students’ interests, skills, and experiences for employment in careers related to familiar and human needs. Careers in this pathway are linked to family/consumer, economic, political, and social systems. Some occupations in this career focus area include those in hospitality and recreation, public and community service, and the broad field of social services. Careers such as those in childcare, cosmetology, economics, education, fire protection, food service, government, history, hotel and restaurant services, law, law enforcement, the military, and recreation may be found in this career pathway.

PATHWAY FOCUS AREAS: Counseling; Personal Care; Education; Law, Public Safety, and Government, Hospitality and Tourism

<i>Are you interested in...</i>	<i>Can you...</i>	<i>Do you enjoy...</i>
Working with People Owing Your Own Business Aging Adults Child Development Family & Social Services Food Preparation Teaching Counseling	Organize Well Plan and Direct Programs Be Creative Communicate Well Assume Leadership Work with a Team Use Inter-personal Skills 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 Searching for Answers to Human Problems

If you answered “yes” to most of these questions, you might consider a future in one of the sample occupations listed below based on their level of post-secondary training.

SAMPLE CAREERS

<i>Entry (OJT)</i>	<i>Technical/Skilled (1-3 yrs)</i>	<i>Professional (4 or + yrs)</i>
Cosmetics Representative Dry Cleaning Operator Home Health Aide Library Assistant Armed Services Career Bailiff Postal Services Worker Security Guard Utility Worker Aerobics Instructor Travel Agent Waitress *Teacher’s Assistant Baker *Home Care Aide Textile Alternation	Barber Cosmetologist Fashion Designer Manicurist Massage Therapist Mortician Truck Driver Teacher’s Aide Armed Services Career Crime Lab Technician Fire Fighter Bartender Chauffer Flight Attendant Meat Cutter Personal Trainer Postmaster Chef	Funeral Director Marriage & Family Therapist *College Professor *Principal *Teacher City Manager Criminologist FBI Agent Lawyer Parole Officer *Mental Health Counselor Park Ranger Workforce Director Athletic Agent Executive Chef Family Planner Food Services Manager Hotel/Motel Management

**High Priority Occupations—job categories that are in demand by employers, have higher skill needs, and are most likely to provide family sustaining wages*

Health and Natural Resources Science Pathway (HNRS)

This Pathway is designed to develop students' interests in the life, physical, and behavioral sciences and in the planning, managing, and providing of therapeutic services, diagnostic services, health information, and biochemistry research development. Careers in this pathway are part of the health services field. They include occupations in hospital services, medical technology, medicine, nursing, optometry, pharmacy, psychiatry, psychology, therapy, and others. Careers in this pathway are related to the environment and natural resources and include occupations in agribusiness, agriculture, animal science, veterinary science, forestry, horticulture, and wildlife management.

PATHWAY FOCUS AREAS: Health Science; Agriculture, Food, & Natural Resources; Science, Technology, and Math

<i>Are you interested in...</i>	<i>Can you...</i>	<i>Do you enjoy...</i>
Health Care Environment Science and Medicine Medical Research Food Production Environment & Conservation Pharmacy Physical Therapy Sports/Fitness Information Systems Conservation Radiology	Pay Attention to Detail Use a computer and technology Work in a lab setting or medical facility Apply a 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 Work outdoors with wildlife Solving problems 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 most of these questions, you might consider a future in one of the sample occupations listed below based on their level of post-secondary training.

SAMPLE CAREERS

<i>Entry (OJT)</i>	<i>Technical/Skilled (1-3 yrs)</i>	<i>Professional (4 or + yrs)</i>
Hospital Worker Patient Care Technician Dialysis Technician EEG Technician *Home Health Aide Physical Therapy Aide Animal Caretaker Breeder Extension Service Worker Food Conservation Worker Wildlife Reserve Worker Hazardous Waste Technician Optician Data Entry Surgical & Mapping Technicians	Certified Nursing Assistant *Dental Hygienist Licensed Practical Nurse *Medical Lab Technician *Radiological Technician Respiratory Therapist Dental Lab Technician Fish & Game Worker Forest Conversationalist GPS Technician Surveyor *Veterinary Technician Nano Technician Sound Engineer Personal Trainer *Emergency Medical Tech. *Biological Technicians Chemical Technicians	Athletic Trainer Speech/Language Pathologist Dietician *Physician Assistant Medical Examiner *Pharmacist Physician *Physical therapist Registered Nurse Agronomist *Environmental Scientist Geologist Marine Biologist Soil Conversationalist *Veterinarian Chemist Geneticist Statistician Zoologist *Nuclear Engineer

**High Priority Occupations—job categories that are in demand by employers, have higher skill needs, and are most likely to provide family sustaining wages*

Planning Your High School Program

I. Credit Requirements for Graduation

As specified in Cocalico School District's Comprehensive Plan, students must demonstrate achievement of allstate-required standards. All students will demonstrate achievement of these standards through the successful completion of high school credits.

A. Credits Earned

Students must earn a minimum predetermined number of credits each year in order to be promoted to the next grade. Students must successfully complete a minimum of 6 credits to be classified as a sophomore, 13 credits to be classified as a junior, 20 credits to be classified as a senior, and 26 credits to graduate. If a student has not met these credit requirements, they will be re-assigned to the appropriate grade. Information on remediation of failed courses is available in the Counseling Office.

B. Required Courses

Required Courses	Credits
English/Communication Arts	4
Mathematics	3
Science	3
Social Studies/Citizenship	3
Arts and Humanities	2*
Grade 9 P.E./Health	1
Grade 10 P.E./Driver's Ed./Health	1
STEM Electives	2**
Senior Elective Options	1
Grade 9 Career & Financial Awareness	1
Electives	5
Total	26

* 2 Arts or Humanities credits: Art, English/Communication Arts, Music, Social Studies/Citizenship, or World Language.

**2 STEM Electives – Identified Business courses, Mathematics, Science, or Technology

C. Transcripts

The student transcript will include the following: Class Decile, Final Grades, Credits Earned, Final GPAs, Attendance, and Keystone Exam Results.

II. Instruction and Procedures for Completing Course Selection

1. Become thoroughly familiar with the information about the courses available. Pay special attention to the pathway and recommended career cluster(s) appropriate for each course. Study the graduation requirements and make sure all required courses are included in your course selection.
2. As you consider which courses best meet your needs and interests, keep in mind the following factors:
 - Your past school records
 - Your abilities and aptitudes
 - Your plans following high school graduation

3. Check with present or past teachers, available teachers at parents' night, or your school counselor for information about classes you are considering.
4. Be certain the courses you select are the ones you want to follow since these choices become finalized and sent to you in the August mailing. Dropping courses will be permitted only with administrator/counselor approval.
5. Every effort will be made to schedule your choice of subjects. In case of a schedule conflict, students will be contacted by the counselors.
6. Parents are encouraged to consult with counselors for assistance in planning school courses of study. Every attempt will be made to schedule conferences at parents' convenience. To schedule a conference, call 717-336-1427 or 717-336-1442.

III. Keystone Exams

Under SB 1095, there are provisions for multiple alternatives to graduation beyond proficiency on each of the three Keystone Exams. Here is a summary of the various pathways students could navigate to receive a diploma under this proposal:

1. Attain a proficient or advanced score on the three Keystone Exams in Algebra I, Biology and Literature.
2. Attain a proficient score on at least one of the Keystone Exams and at least a basic on the other two and have the combined scores of these exams meet or exceed a state-specified composite score determined to be acceptable.
3. Meet or exceed local grade requirements in areas tested in the Keystone Exams and one of the following: attain at least a state-specified passing score on the SAT, PSAT, ACT, Advanced Placement exam in any subject area, earn a gold or platinum score on a Work Keys certificate exam that determines career readiness, pass the military entrance exam, complete a dual enrollment course in any subject area, complete a pre-apprenticeship program, or gain acceptance into a four-year higher education institution and show evidence of the ability to handle college-level work.
4. Meet or exceed local grade requirements in areas tested in the Keystone Exams and obtain an industry-based competency certification related to the career and technical education student's program of study or demonstrates a likelihood of success in an industry-based competency exam.
5. Meet or exceed local grade requirements in areas tested in the Keystone Exams and three pieces of evidence demonstrating "readiness for meaningful postsecondary engagement" consistent with the career plan that students starting this year are required to develop. The evidence must include one of the following: a silver score on the Work Keys exam, a state-specified acceptable score on the SAT, acceptance into community college or postsecondary institution other than a four- year college and proof of ability to handle college-level work, attaining an industry-recognized credential, attaining at least a state-set score on an Advanced Placement exam or international baccalaureate exam, or completing a dual enrollment course. Additionally, this option allows for the following to be evidence of graduation readiness: completion of a pre-approved service learning project, attaining a proficient or advanced score on a Keystone Exam, a letter guaranteeing full-time employment, completion of an internship/externship/cooperative education program, attaining at least a 2.0 in the National Collegiate Athletic Association's core courses for college-bound student athletes, or meeting or exceeding local grade requirements in any science, technology, environment and ecology course.
6. Satisfactory completion of the program developed by an individualized education program team in the case of a student with disabilities.

IV. Senior Elective Options

Seniors will choose from 5 half-credit options in order to fulfill their one credit senior elective. Seniors are required to select two of the following options:

- 1) Physical Education 12*
- 2) Service Learning *
- 3) Financial Literacy*
- 4) Online Course**
- 5) Life-long Personal Communication Skills*

*See course descriptions in the Educational Planning Guide

**See guidance counselors for online course selections and descriptions.

V. Advanced Placement (AP) Courses

Cocalico High School (CHS) offers the following Advanced Placement (AP) courses: Language and Composition, Literature and Composition, Biology, Physics, Calculus AB, Calculus BC, Statistics, Microeconomics, United States History, European History, United States Government, Spanish, and German. See the appropriate section of this booklet for course descriptions.

The AP program provides high school students with an opportunity to achieve college credit while in high school. This program is a cooperative educational venture between the College Board and CHS. It is based on the fact that many young people can complete college-level studies in their secondary schools, and it represents a desire of schools and colleges to foster such experiences.

AP serves three groups:

1. Students who wish to pursue college-level studies while still in secondary school
2. Schools that desire to offer these students the opportunity to do so
3. Colleges that wish to encourage and recognize such achievement.

It does this by providing practical course outlines of college-level courses to interested high schools and student results of examinations based on these courses to the colleges of the students' choice.

Participating colleges, in turn, grant credit and/or appropriate placement to students who have done well on the examinations. Thus, the AP program is an instrument of cooperation that extends the educational opportunities available to students by effectively relating college-level courses at thousands of schools to appropriate credit and placement at the colleges that the students eventually attend.

The AP examinations are offered throughout the world each May. No examination is longer than three hours.

Examinations are administered at participating schools. Students will receive a grade and credit for each AP course completed. To receive college credit, a satisfactory score must be achieved on the AP examination and accepted by the college. Students enrolled in an AP course are expected to take the AP examination.

VI. Alternative Opportunities

A. Dual Enrollment

This program allows high school juniors or seniors to take college courses at the following schools: Millersville University, Harrisburg Area Community College (Lancaster campus), Penn State (Berks campus), Thaddeus Stevens College of Technology, Lancaster Bible College and the Pennsylvania College of Health Sciences. These courses must be non-remedial college courses. Students interested in taking college level courses should contact their counselor for available opportunities.

B. Work Experience

This program is for seniors only. No credit will be awarded for this program. Students are still required to meet the graduation requirements that have been established for their class. Students must provide proof of employment to the counseling office.

C. Cocalico Internship

This program is a career exploration and training program for seniors only that is established as a partnership between Cocalico High School, local business/industries and the participating students. The main focus of the program is to support students in identifying careers of interest and working with local employers to establish training plans for the students to learn more about their career interest in an authentic environment. Student work experiences will require that students work a minimum of 120 hours per semester.

D. Online Learning-Cocalico Connections

A variety of core and elective online courses are available to students through the Cocalico Connections program. Students who are interested in online learning options should discuss their educational goals with their counselor. If online courses seem to be the best approach to meeting those goals, the following steps will be implemented before final determination is made regarding enrollment in online courses or a full-time online program:

1. Students will complete an inventory assessing their readiness to be online learners.
2. Students, parents, and counselors will meet to discuss the differences between online learning and the traditional classroom setting.
3. Administrative approval must be obtained.

Three online options are available to students:

1. Full-time Online Off-site – students complete all courses online at home.
2. Full-time Online On-site – students complete all courses online in the school's online learning lab.
3. Hybrid Online – students take a mixture of online and traditional classes. Online courses can be taken at home or in the school's online learning lab, depending on student needs and access to transportation.

Students in an online course will be expected to meet the requirements of the course at the specified due dates. Grading and credits will be awarded according to the same guidelines that apply to the traditional program. Students who are full-time online students will also have the same expectations for course completion and credit requirements as in the traditional program. Additional information regarding online learning may be obtained in the counseling office at CHS. More information can also be obtained by visiting our online website. A link for the Cocalico Connections website can be found on the high school's homepage under the "Support Programs" tab.

E. Thaddeus Stevens College of Technology Early Enrollment Program

This partnership with TSCT allows students to complete their senior year of high school while completing their freshman year of college. Students apply to the program during their junior year of high school and all classes would be taken at Thaddeus Stevens during their senior year. Students need a 2.5 GPA or higher to apply and there is a February 1st deadline. Early Enrollment tuition is 50% reduced for the senior year, and students are eligible to apply for financial aid. Students should complete the FAFSA between October 1 and May 1 of their junior year to pursue financial aid. Students must be able to transport themselves to Thaddeus Stevens College of Technology in Lancaster, PA. The typical length of day is 7:30 a.m. to 4:30 p.m. In addition, due to the nature of the program, students will not be able to participate in any extracurricular activities, including sports or band.

F. The Global Scholars Program

The Global Scholars Program is an interdisciplinary program that helps cultivate globally minded students who, upon graduation, will be better prepared to negotiate our increasingly international society. This program is sponsored by Pennsylvania State Modern Language Association (PSMLA). Students will be better equipped for acceptance to a university and other post-secondary programs, professional and personal success in the global community and marketplace, and future employment.

Candidates must:

- Take four years of a world language at the high school with at least a B average in each course
- Take four credits of courses global in nature with a B average (some examples: World Studies, English 10, Concert Choir/Band, AP Microeconomics, etc.)
- Complete 20 hours of community service that are global in nature
- Participate in four extra-curricular activities that explore global aspects
- Complete eight literature/media reviews (at least four books) that are standards-based and reflect higher-level thinking skills

Upon successful completion of the program, students will receive a certificate, honors cords (for purchase) and credentialing on their transcript. Contact a world language teacher for more information.

VII. Exceptions to Planned Course Selection

The following exceptions apply to online, dual enrollment, and options for testing out of a course.

1. Students must obtain administrative approval prior to enrolling in any online course.
2. Online courses may be used for credit recovery when a student fails a course during the school year.
3. Online courses may be used to attain the credits necessary for early graduation with prior administrative approval.
4. Additional online courses (beyond the full high school load of 4 credits per semester) may be taken for the purpose of enrichment. The course will be noted on the student's transcript; however, it will not count toward a student's grade point average and no credit will be awarded.
5. Dual enrollment classes may be taken in place of another course. In this case, college classes will count as high school classes with credit and for a grade. This option is available for juniors or seniors only, based on the agreement we have with participating colleges.
6. If the student is already carrying a full load at the high school (4 credits per semester), any college courses should be used for the purpose of enrichment. The class will be noted on the student's transcript; however, it will not count toward a student's grade point average and no credit will be awarded.
7. Students requesting to opt out of a required or prerequisite course must demonstrate solid mastery of the content of the course prior to the start of the course in order to be considered for approval for opting out. A score of Advanced on a Keystone Exam (if it is a Keystone course) or performance of 90% or higher on local assessments will be required. Other factors may also be considered, and final approval is at the discretion of the high school principal. In the rare instances that testing out is approved, a course may be listed on the student's transcript; however, no credit will be awarded for the course. It should be clearly noted on the transcript that the student tested out of the program. Parents and students must be aware of the details related to testing out and they must both sign a consent form.

VIII. Summer School Options:

- **Credit Recovery** - Students may retake up to two failed courses over the summer. The courses are abbreviated and online. The courses are P/F. The students earn 1 credit per course, but *the courses are not included in GPA calculations*. The courses will be listed on the student's transcript with a P or F. The students would pay the cost per course of \$175.
- **Acceleration/Early Graduation** - Students may take online courses to earn the credits necessary for early graduation (typically 2 courses to graduate by the end of a student's junior year). The students earn 1 credit per

course and *the courses are not included in GPA calculations*. The courses will be listed on the student's transcript with a grade. The students would pay the cost per course of \$350. Note: If a student later decides not to graduate early, the "acceleration" courses would become "enrichment" courses.

- **Enrichment** - Students may take additional online or dual enrollment courses for the purpose of enrichment. *The student does not earn credit for these courses and the courses will not be included in GPA*. The courses will be listed on the student's transcript with a grade. The students would pay the online cost per course of \$350 or any costs associated with a dual enrollment course.
- **Pass/Fail** - For full-time students (8 credits earned in a school year) who need a required course to graduate on time due to special circumstances (exchange student or alternative educational placement), the students may take an online course. The students earn 1 credit per course, *the courses are not included in GPA calculations*. The courses will be listed on the student's transcript with a P or F. The students would pay the cost per course of \$350.

IX. Weighted Grade Point Average

Percent Grade	Standard Grade	Standard G.P.	Honors G.P.	AP G.P.
98-100	A+	4.33	4.83	5.33
93-97	A	4.00	4.50	5.00
90-92	A-	3.67	4.17	4.67
87-89	B+	3.33	3.83	4.33
83-86	B	3.00	3.50	4.00
80-82	B-	2.67	3.17	3.67
77-79	C+	2.33	2.83	3.33
73-76	C	2.00	2.50	3.00
70-72	C-	1.67	2.17	2.67
67-69	D+	1.33	1.83	2.33
63-66	D	1.00	1.50	2.00
60-62	D-	0.67	1.17	1.67
0-59	F	0.00	0.00	0.00

X. Grade Point Average (GPA) Calculations

A student's overall or cumulative GPA is a representation of all of his/her coursework completed while enrolled at Cocalico High School. After completing a course at Cocalico High School, a student earns a final grade, represented as a percentage. The chart outlining grade designations is provided above in part IX. The GPA is calculated using a formula that includes a final grade, the credit value of the course, and the "weight" of the course as noted with each course in this guide.

A current GPA will appear on each report card and is a representation of that specific marking period's work. A cumulative GPA appears on the transcript and is a representation of all completed coursework.

Beginning with the class of 2023 and beyond, Cocalico will not publicly report class rank on transcripts. Likewise, beginning with the class of 2023, Cocalico will not recognize a valedictorian and salutatorian. Instead, the top 3% of the graduating class will be acknowledged at commencement.

Decile System: Beginning with the class of 2023 and beyond, a decile system will be computed to indicate a student's relative academic placement in relation to their peers. Cocalico High School acknowledges the

usefulness of a system of computing GPA for secondary school students to inform students, parents, and others of their academic progress. The decile ranking is based on grade point average for students in grades 9 through 12. Decile ranking (top 10%, 20%, 30%) will be computed at the completion of each semester and accessed through PowerSchool.

Honor Roll: Honor roll will be completed by computing students' weighted GPA for the marking period. Each letter grade has a corresponding quality point value. The Honor Roll will be reported at the end of each quarterly marking period. This listing is made up of students who achieve a weighted average of 3.25 or higher, identifying them according to the following groupings:

For example:

Distinguished: 4.00 or higher

High Honors: 3.75 - 3.99

Honors: 3.25 - 3.74

ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification Account with the NCAA Eligibility Center at eligibilitycenter.org. If you want to play Division III sports or you aren't sure where you want to compete, start by creating a Profile Page at eligibilitycenter.org.

ACADEMIC REQUIREMENTS

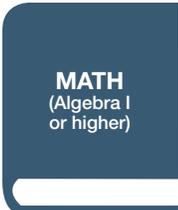
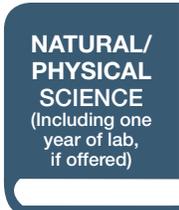
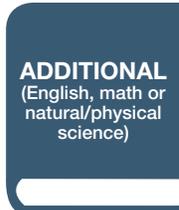
To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA and earn an ACT or SAT score that matches your core-course GPA.

CORE COURSES

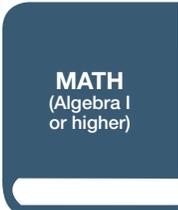
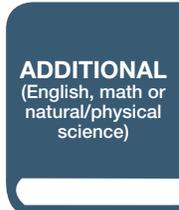
Visit eligibilitycenter.org/counselist for a full list of your high school's approved core courses. Complete 16 core courses in the following areas:

DIVISION I

Complete 10 NCAA core courses, including seven in English, math or natural/physical science, before your seventh semester.

 <p>ENGLISH</p> <p>4 years</p>	 <p>MATH (Algebra I or higher)</p> <p>3 years</p>	 <p>NATURAL/ PHYSICAL SCIENCE (Including one year of lab, if offered)</p> <p>2 years</p>	 <p>ADDITIONAL (English, math or natural/physical science)</p> <p>1 year</p>	 <p>SOCIAL SCIENCE</p> <p>2 years</p>	 <p>ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)</p> <p>4 years</p>
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DIVISION II

 <p>ENGLISH</p> <p>3 years</p>	 <p>MATH (Algebra I or higher)</p> <p>2 years</p>	 <p>NATURAL/ PHYSICAL SCIENCE (Including one year of lab, if offered)</p> <p>2 years</p>	 <p>ADDITIONAL (English, math or natural/physical science)</p> <p>3 years</p>	 <p>SOCIAL SCIENCE</p> <p>2 years</p>	 <p>ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)</p> <p>4 years</p>
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GRADE-POINT AVERAGE

The NCAA Eligibility Center calculates your grade-point average (GPA) based on the grades you earn in NCAA-approved core courses.

- DI requires a minimum 2.3 GPA.
- DII requires a minimum 2.2 GPA.

SLIDING SCALE

Divisions I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. If you have a low test score, you need a higher GPA to be eligible. Find more information about sliding scales at ncaa.org/student-athletes/future/test-scores.

TEST SCORES

Take the ACT or SAT as many times as you want before you enroll full time in college, but remember to list the NCAA Eligibility Center (code **9999**) as a score recipient whenever you register to take a test. If you take a test more than once, send us all your scores and we will use the best scores from each test section to create your sum score. We accept official scores only from the ACT or SAT, and won't use scores shown on your high school transcript.



HIGH SCHOOL TIMELINE

GRADE 9

Plan

- Start planning now! Take the right courses and earn the best grades you can.
- Ask your counselor for a list of your high school's NCAA core courses to make sure you take the right classes. Or, find your high school's list of NCAA core courses at eligibilitycenter.org/courselist.

GRADE 10

Register

- Register for a Certification Account or Profile Page with the NCAA Eligibility Center at eligibilitycenter.org.
- If you fall behind on courses, don't take shortcuts to catch up. Ask your counselor for help with finding approved courses or programs you can take.

GRADE 11

Study

- Check with your counselor to make sure you are on track to graduate on time.
- Take the ACT or SAT, and make sure we get your scores by using code **9999**.
- At the end of the year, ask your counselor to upload your official transcript.

GRADE 12

Graduate

- Take the ACT or SAT again, if necessary, and make sure we get your scores by using code **9999**.
- Request your final amateurism certification after April 1.
- After you graduate, ask your counselor to upload your final official transcript with proof of graduation.

Core Courses

This simple formula will help you meet Divisions I and II core-course requirements.

4 x 4 = 16

- + 4 English courses (one per year)
- + 4 math courses (one per year)
- + 4 science courses (one per year)
- + 4 social science courses (one per year)

= **16 NCAA CORE COURSES**

For more information:

ncaa.org/playcollegesports
eligibilitycenter.org

Search Frequently Asked Questions

ncaa.org/studentfaq

Follow us:

 @NCAAEC

 @playcollegesports

WHAT IS A CORE COURSE?

NCAA schools require college-bound student-athletes to build a foundation of high school courses (core courses) to prepare them for the academic expectations in college.

For a high school class to be an NCAA-approved core course, it *must* meet these conditions:

1. Be a four-year college preparatory course in one of these subject areas:
 - English.
 - Math (Algebra I or higher).
 - Natural/physical science.
 - Social science.
 - Foreign language.
 - Comparative religion or philosophy.
2. Be taught at or above your high school's regular academic level.
3. Receive credit toward high school graduation and appear on an official transcript with course title, grade and credit awarded.

Approved classes are added to your school's list of NCAA-approved core courses. Make sure you are taking courses on the approved list; ask your counselor if you need help.

What is Not a Core Course

Not all high school classes are NCAA-approved core courses. Some examples of courses that are not NCAA-approved core courses include:

- Courses in non-core areas, such as driver education, typing, art, music, physical education or welding.
- Courses that prepare students for the world of work or life, or for a two-year college or technical school, such as personal finance, consumer education or tech prep.
- Courses taught below grade level, at a slower pace or with less rigor or depth, such as basic, essential, fundamental or foundational courses.
- Credit-by-exam courses.

Core-Course Credits

You can earn credit for a core course only once. If you take a course that repeats the content of another core course, you earn credit for only one of these courses and the higher grade counts toward your core-course GPA. For more information on core-course credits, visit ncaa.org/student-athletes/future/core-courses.

Courses Taken Before High School

If you take a high school class such as Algebra I or Spanish I in eighth grade, the class may count toward your 16 core courses if it appears on your high school's list of NCAA-approved core courses and is shown on your high school transcript with grade and credit.

Courses Taken After High School

For information about courses taken after high school, see [page 20](#) for Division I or [page 23](#) for Division II.

College Courses, Dual-Enrollment Courses and Dual-Credit Courses

College courses may be used to satisfy NCAA core-course requirements if the courses are awarded a grade and credit by the high school for any student and meet all other requirements for core courses. College courses must be placed on the student's high school transcript with clarification of college completion.

REMEMBER

Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist.



NONTRADITIONAL AND ONLINE COURSES

Nontraditional courses are taught online or through distance learning, hybrid/blended, independent study, individualized instruction, correspondence or similar means.

Generally, for a nontraditional course to count as an NCAA-approved core course, it must meet *all* of the following requirements:

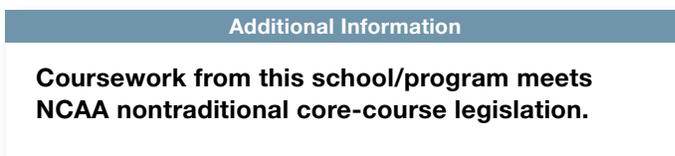
- The course must meet all requirements for an NCAA-approved core course.
- All students in the course must have regular instructor-led interaction for the purpose of instruction, evaluation and assistance for the duration of the course. This may include, for example, exchanging emails between the student and teacher, online chats, phone calls, feedback on assignments and the opportunity for the teacher to engage the student in individual or group instruction.
- The course must have a defined time period for completion. For example, it should be clear how long students are required to be enrolled and working in the course and how long a school would permit a student to work on a single nontraditional course.
- Student work (e.g., exams, papers, assignments) must be available for evaluation and validation.
- The course should be clearly identified as nontraditional on the student's official high school transcript.



A nontraditional course may not be approved for any of the following reasons:

- Does not have teacher-based instruction.
- Does not require regular and ongoing instructor-led interaction between the student and teacher.
- Does not require students to complete the entire course.
- Does not prepare students for four-year college class work.
- Does not have official student grade records.
- Does not meet NCAA core-course requirements.

When viewing the school/program's course list, you will find information about any nontraditional programs or courses in the "Additional Information" box as seen below.



REMEMBER



Log in to your NCAA Eligibility Center account frequently to update your school information if you take courses from additional academic programs.

To find out if a nontraditional program or course is approved, go to eligibilitycenter.org/courselist to search the school/program and view the respective additional information boxes.

Courses Taken After High School

For Division I, only courses completed in your first eight semesters will qualify as core courses. If you graduate from high school on time (in eight semesters) with your incoming ninth-grade class, you may use one core-course unit completed in the year after graduation (summer or academic year) before full-time collegiate enrollment. You may complete the core course at a location other than the high school from which you graduated as long as the course is taken prior to full-time enrollment at any college or university. A college course taken after high school graduation may be

used toward your initial eligibility and awarded 0.5 units from your college transcript (unless awarded one full unit on your home high school transcript).

An additional core-course unit taken after on-time high school graduation cannot replace a course used to meet the core-course progression (10/7) requirement, but an additional core course after on-time graduation may replace one of the remaining six core-course units necessary to meet core-course requirements.

Sliding Scale for Division I

Division I uses a sliding scale to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. Find more information about test scores on [page 13](#) or visit ncaa.org/test-scores.

DIVISION I FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
3.550	400	37
3.525	410	38
3.500	430	39
3.475	440	40
3.450	460	41
3.425	470	41
3.400	490	42
3.375	500	42
3.350	520	43
3.325	530	44
3.300	550	44
3.275	560	45
3.250	580	46
3.225	590	46
3.200	600	47
3.175	620	47
3.150	630	48
3.125	650	49
3.100	660	49
3.075	680	50
3.050	690	50
3.025	710	51
3.000	720	52
2.975	730	52
2.950	740	53
2.925	750	53
2.900	750	54
2.875	760	55
2.850	770	56
2.825	780	56
2.800	790	57
2.775	800	58

DIVISION I FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
2.750	810	59
2.725	820	60
2.700	830	61
2.675	840	61
2.650	850	62
2.625	860	63
2.600	860	64
2.575	870	65
2.550	880	66
2.525	890	67
2.500	900	68
2.475	910	69
2.450	920	70
2.425	930	70
2.400	940	71
2.375	950	72
2.350	960	73
2.325	970	74
2.300	980	75
2.299	990	76
2.275	990	76
2.250	1000	77
2.225	1010	78
2.200	1020	79
2.175	1030	80
2.150	1040	81
2.125	1050	82
2.100	1060	83
2.075	1070	84
2.050	1080	85
2.025	1090	86
2.000	1100	86

ACADEMIC REDSHIRT

*Full sliding scale research between the new SAT and ACT is ongoing.

Sliding Scale for Division II

Division II uses a sliding scale to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. Find more information about test scores on [page 13](#) or visit ncaa.org/test-scores.

DIVISION II FULL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
3.300 & above	400	37
3.275	410	38
3.250	430	39
3.225	440	40
3.200	460	41
3.175	470	41
3.150	490	42
3.125	500	42
3.100	520	43
3.075	530	44
3.050	550	44
3.025	560	45
3.000	580	46
2.975	590	46
2.950	600	47
2.925	620	47
2.900	630	48
2.875	650	49
2.850	660	49
2.825	680	50
2.800	690	50
2.775	710	51
2.750	720	52
2.725	730	52
2.700	740	53
2.675	750	53
2.650	750	54
2.625	760	55
2.600	770	56
2.575	780	56
2.550	790	57
2.525	800	58
2.500	810	59
2.475	820	60
2.450	830	61
2.425	840	61
2.400	850	62
2.375	860	63
2.350	860	64
2.325	870	65
2.300	880	66
2.275	890	67
2.250	900	68
2.225	910	69
2.200	920	70 & above

DIVISION II PARTIAL QUALIFIER SLIDING SCALE		
Core GPA	SAT*	ACT Sum*
3.050 & above	400	37
3.025	410	38
3.000	430	39
2.975	440	40
2.950	460	41
2.925	470	41
2.900	490	42
2.875	500	42
2.850	520	43
2.825	530	44
2.800	550	44
2.775	560	45
2.750	580	46
2.725	590	46
2.700	600	47
2.675	620	47
2.650	630	48
2.625	650	49
2.600	660	49
2.575	680	50
2.550	690	50
2.525	710	51
2.500	720	52
2.475	730	52
2.450	740	53
2.425	750	53
2.400	750	54
2.375	760	55
2.350	770	56
2.325	780	56
2.300	790	57
2.275	800	58
2.250	810	59
2.225	820	60
2.200	830	61
2.175	840	61
2.150	850	62
2.125	860	63
2.100	860	64
2.075	870	65
2.050	880	66
2.025	890	67
2.000	900	68 & above

*Full sliding scale research between the new SAT and ACT is ongoing.

AGRICULTURE EDUCATION

Agriculture is our nation's largest employer and Lancaster County's largest industry. Its future depends on having the best and brightest young people become leaders in science, production, international marketing, genetics, engineering, food science, computers, horticulture, food science, biotechnology, tissue culture, veterinary science and much more. There are more than 200 rewarding and challenging agriculture careers - promising jobs that offer opportunity for financial gain as well as personal growth and satisfaction. Agriculture education classes are taught at Ephrata Area High School.

Yearly Offering

Honors Animal Science * Supervised Agricultural Experience (SAE) Grades 9-12 Ag Co-Op Grade 12
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Rotational Courses

2021-2022	2022-2023
Honors Biotech (1/2 year) * Intro to Ag Mechanics Plant Science & Landscaping (1/2 year) *	Honors Wildlife and Natural Resources* The Science of Food (1/2 year) *

*Indicates course can be taken for a science credit or indicates course counts as a science credit.

Honors Animal Science

Course #4500

1.0 Credit (Year); Level 2

Grade(s): 9, 10, 11, 12

This is a science course for students who enjoy learning about and working with animals, both pets and livestock. Students receiving a B or higher in the course are eligible to receive 3 transfer credits at either Harcum College or Delaware Valley University. In the course, students are introduced to basic biology concepts as they apply to domestic animals. The class will work with livestock animals to study reproduction, growth, and nutrition. Dissections of livestock specimen will also be included as available to study anatomy. Students will learn some of the challenges of veterinary medicine as they explore topics like animal health and disease. A unit of ecology will also be included. Field trips and guest speakers may be incorporated throughout the course to highlight career possibilities. Students are expected to keep a formal lab book and learn about current events in the animal sciences through journal reports. Leadership development and public speaking skills are taught to increase self-confidence and sharpen communication skills needed for success in a competitive society. FFA membership is open to any student in the class and participation is strongly encouraged.

Introduction to Ag Mechanics - Offered 2021-2022

Course #4550

1.0 Credit (Year); Level 1

Grades: 10, 11, 12

This introductory mechanics course provides students with a basic overview of safety, repair, maintenance, and construction involving woodworking, small gas engines, electricity, and welding. The course will balance classroom instruction with hands-on application of theories and concepts. Students will use hand tools and power machinery to complete both required and individual projects. Emphasis will be on developing a broad base of skills for the industry. Students are required to keep a course portfolio. FFA membership is open to any student in the class and participation is strongly encouraged.

Honors Wildlife and Natural Resources – Offered 2022-2023

Course #4510

1.0 Credit (Year); Level 2

Grade(s): 10, 11, 12

Students receiving a “B” or higher in this course are eligible to receive 3 transfer credits at Delaware Valley University. This is a science course for students who enjoy spending time outdoors, exploring Pennsylvania’s wildlife. Lessons will reinforce basic biology and environmental science concepts as they relate to native birds, fish, mammals, and reptiles. Students will focus on different Pennsylvania habitats including cities, forests, fields, wetlands, and rivers as well as the species of animals and plants found there. In addition to learning new species however, they will explore the complex relationships between species and their environments. Habitat conservation and best management practices will be highlighted and large projects will allow students to study and apply key concepts outside the classrooms. A field trip and guest speakers will be incorporated throughout the course to highlight career possibilities as time allows. . The course places an emphasis on field biology by studying the work of several different naturalist and teaches students to make their own observations. FFA membership is open to any student in the class and participation is strongly encouraged.

Honors Biotechnology - Offered 2020-2021

Course #4505

0.5 Credit (Semester); Level 2

Grade(s) 10, 11, 12

Prerequisite: Current Science Teacher Recommendation.

This is a science course for students who are interested in scientific fields including nursing, medicine, genetics, microbiology, and food science. In this course, students are introduced to the rigorous field of biotechnology as it applies to agriculture, medicine, and the environment. The course will explore organic chemistry as well as basic macromolecules. Students are expected to keep a formal lab book on class labs which will relate to food science, and genetics. At least one lab will require a formal written report. Students will also participate in several discussions regarding the ethics associated biotechnology issues and will stay informed about biotechnology current events FFA membership is open to any student in the class and participation is strongly encouraged.

The Science of Food - Offered 2022-2023

Course #4521

0.5 credit (semester); Level 1

Grade(s): 10, 11, 12

Food a major part of our world. We consume it every day, but how many people know how each product makes it to their plates? The course will focus on how the food industry uses science to create and safely preserve food for consumption. Hands-on, interactive labs will be used to teach the course content, allowing students to build the skills needed to work in the food industry. Students will also examine current food trends and marketing techniques. FFA membership is open to any student in the class and participation is strongly encouraged.

Plant Science & Landscaping - Offered 2021-2023

Course #4515

0.5 credit (semester); Level 1

Grade(s): 10,11,12

Prerequisite: Current Science Teacher Recommendation.

This science-based elective is for students who enjoy getting their hands dirty and want to gain a greater appreciation for plants. Plants are the gateway to many agricultural fields including animal science, microbiology, soil science, pathology, integrated pest management, ecology, and environmental science. *Units will reinforce fundamental biology and environmental science concepts including photosynthesis and integrated pest management.* By the end of the course, students will raise and market a crop in the greenhouse. The school flower beds and grounds will also be used to learn basic maintenance techniques like pruning and dividing. Design will be incorporated as time allows. FFA membership is open to any student in the class and participation is strongly encouraged.

Ag Co-Op

Course #4560

1 Credit (Year); Level 1

Grade(s): 12

Prerequisite: Completion of 2 agriculture courses and teacher approval.

Student will be dismissed to work at approved job sites. Approval must be granted prior to enrollment. This work is experience program will demonstrate the importance of relating students' academic and vocational skills to their ability to seek, obtain, and maintain a job. It consists of on-the-job training, which is provided by a local employer and is supervised by the agricultural instructor. Students are expected to keep FFA record books of hours worked, skills learned, and a work agreement signed by the employer, student, agriculture instructor, and parents.

Supervised Agriculture Experience (SAE)

Course #4565

1 Credit (Year); Level 1

Grade(s): 9, 10, 11, 12

Prerequisite: Current Ag. Teacher Recommendation.

This course is designed to allow Agriculture students the opportunity to work independently on agricultural related projects outside of class time for academic credit and/or be enrolled in an Agriculture course to retain FFA membership. *A minimum of 120 hours is required to meet the basic time requirement and FFA record books will be kept for the SAE project. Projects may include but are not limited to Animal Crew, research, home improvement, employment, or livestock projects. A student may be enrolled in this course for up to four years. Because this course does not meet during the regular school day, students are required to meet with the instructor after school at least once a month. In addition to submitting record books each quarter, students will also complete mini projects each marking period to strengthen their leadership and communication skills while exploring career interest. This course is graded as PASS/FAIL. Students must have a 70% or higher to pass.

**FFA is youth leadership organization for agriculture students. It is known to provide a leadership advantage to students who actively participate. Members will have the opportunity to compete on the county, regional, state and national levels. Activities will allow students to improve communication and academic skills, study habits, and time management. Please call the Agriculture Department at (717) 721-1478 X19343 with questions or concerns relating to FFA membership and agricultural courses.*

ART EDUCATION

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Introduction to Studio Art (2D)	480	1.0	✓				
Advanced 2D Studio art	481	1.0	✓				
Independent Study/Portfolio	482	1.0	✓				
Foundations to Ceramics & 3D	483	1.0	✓				
Contemporary Throwing and Hand Building	484	1.0	✓				
Advanced Wheel Throwing and Hand Building 3D	485	1.0	✓				
Independent Advanced Clay and 3D	487	1.0	✓				

Introduction to Studio Art (2-D) 480

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

Students will be guided through experiences in drawing, painting, mixed media, and digital art. Projects are geared toward the beginning art student with an emphasis on developing creativity, technique and an understanding of composition. Students will have some opportunity to explore independent areas of interest as well.

Advanced 2D Studio Art 481

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

*Prerequisite: Minimum of a C in Introduction to 2D Studio Art or teacher recommendation
Students in the class will be responsible for paying a \$25 lab fee for their class materials.*

Students will study from the following disciplines: drawing, painting, and mixed media.

Drawing - is designed to give students the opportunity to work in a variety of different styles of drawing: scratchboard, charcoal, pen & ink, and pastels. Areas of study also include: cartooning, design, figure drawing, portraiture, still life, and wildlife drawing.

Painting - gives students the opportunity to work in a wide variety of subject matter and materials. Students may work in watercolor, acrylic, and oil paint.

Independent Study/Portfolio 482

Grade level: 10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Prerequisite: Minimum of C in previous Art course or teacher recommendation
Students in the class will be responsible for paying \$25 lab fee for their class materials.***

Students will develop skills and in-depth understanding of specific areas of their own interests in 2D art or develop artwork for use in portfolio submission to art schools. Students will be aided in portfolio preparation and presentation.

Foundations to Ceramics & 3D 483

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Students in the class will be responsible for paying a \$25 lab fee for their class materials

This course introduces pottery as an art form and explores the basics of forming and shaping clay. Taken at the beginning of a ceramics or sculpture program, this course introduces glazing, firing, designing and kiln loading. Students will have the opportunity to apply knowledge from math and science to a hands-on experience. Students will also receive an overview of the history of ceramics and acquire techniques in hand-building and some basic wheel throwing skills. Participation in the Art show and displaying work will be required. *This program is the foundation for all future 3D and Ceramic Courses offered.*

Contemporary Throwing and Hand Building 484

Grade level: 10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Prerequisite: Minimum of C in Foundations to Ceramics & 3D
Students in the class will be responsible for paying a \$25 lab fee for their class materials.***

This course teaches students the fundamental wheel-working and develops hand-building skills used for shaping clay. Students practice using the potter's wheel and begin throwing basic forms, such as bowls and mugs. They will learn how science impacts the form and aesthetics of a ceramic piece, as well as, how to incorporate decorations and embellishments. Participation in Art show and displaying work will be required.

Advanced Wheel Throw and Hand Build 3D 485

Grade level: 10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Prerequisite: Minimum of C in Contemporary Throwing and Hand Building 3D
Students in the class will be responsible for paying a \$25 lab fee for their class materials.***

Students continue their exploration of ceramic art by practicing advanced hand-building, and advanced wheel throwing techniques, such as slab, coiling, inlay, and sgraffito. The design and creation of utilitarian pieces is emphasized; students learn balance and proportion, surface decoration techniques and new firing options. Students often have the liberty of making creative pieces, but also learn how to make 'functional art', such as vases, cups and bowls. Advanced aesthetic, how to determine work value, marketing, technical and conceptual problems are also covered. Participation in the Art show and displaying work will be required.

Independent Advanced Clay and 3D 487

Grade level: 10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Prerequisite: Minimum of B in Advanced Wheel Throwing and Hand-Building 3D with teacher approval
Students in the class will be responsible for paying a \$25 lab fee for their class materials.***

Independent students must be self-motivated and quality conscious individuals. Students will work on developing technical skills (materials and processes appropriate to their concepts), aesthetic sensibilities (including the use of historic and contemporary references in ceramics and other arts, criticism, expression of personal concepts in works). This is intended to build on the basic information from prior hand building, throwing, vessel, and ceramic sculpture classes. Students will investigate choices in materials to express a personal direction or a personal voice. A research concept will be identified by the student for the semester's investigation. We will work closely together to define and refine the problem, identify personal content issues within the research, solve technical problems and grow through the process of research. Students are expected to display artwork and participate in the Art show.

BUSINESS

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Career & Financial Awareness	424	1.0		✓			
AP Microeconomics	423	1.0		✓	✓		
Computer Programming	404	1.0		✓	✓		
Economics Through the Stock Market	405	1.0		✓			
Accounting I	408	1.0		✓			
Accounting II	409	1.0		✓			
Accounting III	410	1.0		✓			
Microsoft Office & Information Technologies	413	1.0		✓			
Entrepreneurship & Management	420	1.0		✓			
Cocalico Internship	427	1.0	✓	✓	✓	✓	✓
Marketing	426	1.0		✓			

Career & Financial Awareness 424

Grade level: 9

Credits: 1 Required Credit

Career Pathways: *Business/Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Career & Financial Awareness will focus on introducing students to career opportunities that are available in the local, state, and national economies. Students will evaluate career choices based on personal interests, education requirements, availability of jobs, and career earnings. Career acquisition skills such as researching job opportunities, preparing career documents such as resumes, job applications, and cover letters, will also be covered. Workplace skills will be introduced through job shadowing experiences and classroom speakers.

Students will make submissions into their Career Portfolio, which will be used throughout their CHS years. Students will compare/contrast entrepreneurship to traditional employment by evaluating how entrepreneurial traits influence career opportunities.

Personal Finance topics such as paychecks and tax returns, checking & savings accounts, credit, budgeting, and investing will also be introduced in this course through project-based assignments that are designed to engage ninth grade students as they are introduced to these life-long skills.

AP Microeconomics 423

Grade level: 10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Business/Information Management and Marketing, Engineering/Industrial and Technological Sciences*

Periods per Cycle: 6

Length of Course: 90 days

AP G.P.

Class projects, midterm and final exam projects, web pages

This college level course is designed to provide students with a thorough understanding of the principles of economics as they apply to individual decision-making units, including households and firms. Students will examine the theory of consumer behavior, the theory of the firm and the behavior of profit-maximizing firms under various market structures. They will evaluate the efficiency of the outcomes with respect to price, output, consumer surplus and producer surplus. Students will examine the behaviors of households and businesses in factor markets and learn how the determination of factor prices, wages, interest and rent influence the distribution of income in a market economy.

Students enrolled in AP courses are expected to take the AP exam

Computer Programming 404

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Business/Information Management and Marketing, Engineering/Industrial and Technology Sciences*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: *Algebra I*

Class projects, internet activities, hands-on projects and simulations

This course will introduce students to the world of programming through the highly structured language of JAVA. JAVA is the beginning course for programming and problem-solving skills. The course topics include programming methodology, control statements, user-defined classes, user interfaces and arrays. Logical, orderly thinking patterns are emphasized. No prior programming experience is necessary. Students may need to spend additional time outside of the classroom on the computer to complete the programming assignments. This class is strongly encouraged for those students who wish to pursue careers in mathematics, science, technology and computer science.

Economics Through the Stock Market 405

Grade level: 10,11,12

Credits: 1 Elective Credit

Career Pathways: *Business/Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Class projects, internet activities, hands-on projects and simulations

This class takes students inside the U.S. economy and shows them why a gallon of gas or an iPhone costs what it does. The class will also demonstrate numerous investment opportunities and strategies so students can make their hard-earned money work for them. Students who like engaging activities and simulations will benefit from this class.

Students who take this course will participate in a statewide online stock market simulation. The simulation is a 10-week competition in which each team receives an imaginary \$100,000 and must invest the money in the stock market with a goal of making as much money as possible in ten weeks. Students will be taught lessons in investing such as buying on margin, short-selling, and investments in commodities.

Other economic lessons will be incorporated using the “Virtual Business” simulation. Student will manage their own online convenience store, and they will be required to make decisions concerning pricing, purchasing and advertising. Students start their own business from scratch and manage it from a single store to a chain of stores.

Through these simulations, students will learn first-hand the components of economics. Economic standards are met in a way that will allow students to understand the role of the economy in everyday living.

Accounting I 408

Grade level: 9,10,11,12

Credits: 1 Elective Credit

Career Pathways: *Business/Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Accounting I is an ideal course for any student who is seeking employment in the business field, or is planning to attend college as a business related major. Accounting is defined as: planning, recording, analyzing, and interpreting financial information. Through a variety of workbooks, Excel and automated accounting activities, students will gain an understanding of how to prepare and analyze important financial documents of a business.

Knowledge of accounting can be applied to all areas of business such as marketing, management, human resources, finance and business information systems.

Accounting II 409

Grade level: 10,11,12

Credits: 1 Elective Credit

Career Pathways: *Business/Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Prerequisite: Accounting I or permission of Instructor
Final project required***

Accounting II continues with the concepts covered in Accounting I. In addition, Accounting II incorporates Managerial Accounting concepts such as budget planning, performance reports, break even sales calculations and financial statement analysis. Cost Accounting is also emphasized in this course, with particular attention being paid to manufacturing costs and records.

The Automated accounting software will continue to be a part of the accounting curriculum, and Excel activities will be used to further study various accounting concepts.

Accounting III 410

Grade level: 11,12

Credits: 1 Elective Credit

Career Pathways: *Business/Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Prerequisite: Accounting II
Midterm and final projects required***

Accounting III focuses on decisions made internally within a business. Information generated by managerial accountants is used for making decisions such as: setting prices, determining the cost of manufacturing an item, granting credit to customers, managing inventory, leasing or buying equipment and projecting revenues and costs. This class will prepare students who are planning a career in accounting or those majoring in business in college. Computers are used on a daily basis.

Microsoft Office & Information Technologies 413

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Business/Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

This class will train the students in the various Microsoft Office programs that are needed to become a Microsoft Office Specialist. Students will have the opportunity to develop and improve their competencies in word processing, spreadsheet, desktop publishing, video edition and presentation applications and will complete a series of real-world projects.

By using the Microsoft Office software skills taught in this class, students will complete business and financial documents, organize data and create and design marketing documents, databases and promotional presentations. These projects will increase the competency and productivity using Microsoft Office applications. The Microsoft Office Specialist skills taught will make any student a more qualified candidate when seeking job opportunities.

Students will be learning Microsoft Office using the Windows Operating System. They will be able to create, modify, edit and present the following applications: Windows Movie Maker, Microsoft Word, Microsoft Excel, Microsoft Publisher and Microsoft PowerPoint.

There will be a final exam project integrating the above mentioned applications.

Entrepreneurship and Management 420

Grade level: 10, 11,12

Credits: 1 Elective Credit

Career Pathways: *Business/Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

In a world full of “self-made millionaires” it should come as no surprise that owning and managing a business is an interest of today’s students. Entrepreneurship and Management is a hands-on course that will teach students the skills needed to establish and manage a business. This course is designed to study the different forms of business entities, how to begin a business, and operate a business as an entrepreneur or manager. This hands-on course teaches students about various aspects of business ownership including: pricing, merchandising, bookkeeping, advertising/promotions, inventory control, cost analysis and business planning. Students will apply what they learned from the classroom to real life business situations through simulations, projects, competitions and assignments using computer technology. The ultimate goal of this course, upon completion is for the students to realize whether or not owning and operating a business is a likely career choice for them.

Cocalico Internship 427

Grade level: 12

Credits: 1 Elective Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course is a career exploration and training program for seniors that is established as a partnership between Cocalico High School, local business/industries and the students. The main focus of the program is to support students in identifying careers of interest in a hands-on approach to learning. In order to determine a grade for personal work experiences, students will be evaluated by the employer on a monthly basis, with a portion of the final grade being determined by the average of monthly evaluation scores.

Marketing 426

Grade level: 10,11,12

Credits: 1 Elective Credit

Career Pathways: *Business/Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

This class will teach students the fundamentals of marketing that help drive the United States economy and how U.S. companies do business in international markets. Knowledge of Microsoft Office (Word, Excel and PowerPoint) as well as iMovie will greatly benefit students in this class.

In the marketing segment of the course we will focus on why businesses spend billions of dollars each year on marketing their products to consumers. Students will be able to target an industry of their choice (*sports, entertainment, fashion or other*) to complete the required course projects. Team work and group activities will be a major part of this course.

The course will also have an **International Marketing** component where we will study the emerging global economy and how businesses market their products to other countries. Major topics include: culture and social difference, importing/exporting and international trade, international investing, currency exchange rates and government/legal influences on international trade.

ENGLISH/COMMUNICATION ARTS

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
English 9: Communication Arts	001	1.0	✓	✓	✓	✓	✓
English 9: Communication Arts	030	1.0	✓	✓	✓	✓	✓
American Literature & Composition	003	1.0	✓	✓	✓	✓	✓
English 10: Communication Arts	031	1.0	✓	✓	✓	✓	✓
English 11: Communication Arts	032	1.0	✓	✓	✓	✓	✓
English 12: Communication Arts	033	1.0	✓	✓	✓	✓	✓
World Literature & Composition	014	1.0	✓	✓	✓	✓	✓
British Literature & Composition	004	1.0	✓	✓	✓	✓	✓
Thematic Interpretations of Literature and Media	024	1.0	✓	✓	✓	✓	✓
AP Literature & Composition	008	1.0	✓	✓	✓	✓	✓
AP Language & Composition	009	1.0	✓	✓	✓	✓	✓
Language Acquisition	833	1.0	✓	✓	✓	✓	✓
Literacy Enrichment	021	1.0	✓	✓	✓	✓	✓
Speech/Creative Writing	052	1.0	✓				
Journalism	022	1.0	✓	✓	✓	✓	✓
Research Skills	025	1.0	✓	✓	✓	✓	✓
Yearbook Production I	044	1.0	✓				
Yearbook Production II	045	1.0	✓				
Yearbook Production III	046	1.0	✓				
Yearbook Production IV	047	1.0	✓				

English 9: Communication Arts 001

Grade level: 9

Credits: 1 Communications and Literature Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

This college prep course will include activities in communications and literature. The communications instruction will include basic grammar, composition, vocabulary building, library instruction and speech. The literary background will include examination of the four basic forms of literature: short story, drama, novel and poetry as well as nonfiction texts.

A broad variety of instructional techniques will be employed in the classroom, including collaborative and independent work, lecture, writing, speech, discussion, individual reflection and peer evaluations. This course will provide students with opportunities to develop skills for in- depth analysis of a variety of texts. Students will be expected to read critically, examine the author’s use of literary elements, and write developed literary analysis. Students will also be asked to discuss their observations of literature and support their ideas with text evidence.

English 9: Communication Arts 030

Grade level: 9

Credits: 1 Communications and Literature Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course will include activities in communications and literature. The communications instruction will provide supported study of a variety of literature, including short story, drama, novel and poetry as well as nonfiction texts. Students will work on developing skills in critical reading, analytical writing, and vocabulary study.

A broad variety of instructional techniques will be employed in the classroom, including collaborative and independent work, lecture, writing, speech, discussion, individual reflection and peer evaluations. This course will provide students with opportunities to develop skills for analysis of a variety of texts. Students will be expected to read and begin to examine the author's use of literary elements with support. Students will also practice writing literary analysis and discuss their observations of literature while supporting their ideas with text evidence.

American Literature & Composition 003

Grade level: 10

Credits: 1 Communications and Literature Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Keystone Literature**

Prerequisites: English 9 Communications CP (grade of B or better or teacher recommendation) Or English 9 Communication Arts 030 (grade of A or teacher recommendation)

This course will include activities in communications and literature. This course will require students to enhance their skills for in-depth analysis of a variety of texts. Students will be expected to read critically, examine the author's use of literary elements, and write developed literary analysis. Using text evidence and personal commentary, students will also be asked to write and discuss their observations of literature with complexity. Key assessments include literature-based essays and a literary analysis research paper. Literary material covered includes a survey of American authors from the Puritans and the Founding Fathers through the Romanticism, Realism and Modernism movements.

A broad variety of instructional techniques will be employed in the classroom, including collaborative and independent work, close reading and annotation, writing, speech, discussion, lecture, research, individual reflection and peer evaluations. This course includes activities in communications and literature designed to prepare students for the Literature Keystone Exam.

English 10: Communication Arts 031

Grade level: 10

Credits: 1 Communications and Literature Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Keystone Literature**

This course includes various activities in communication, composition, and literature in preparation for the Literature Keystone Exam. This course will require students to develop their skills for analysis of a variety of texts. Students will be expected to read critically, examine the author's use of literary elements, and write literary analysis. Using text evidence and personal commentary, students will also be asked to write and discuss their observations of literature through supported practice with these skills. The communications instruction will include literature-based writing.

A broad variety of instructional techniques will be employed in the classroom, including collaborative and independent work, close reading and annotation, writing, speech, discussion, lecture, individual reflection and peer evaluations. This course includes activities designed to support students in strengthening skills needed for independent analysis of literature in preparation for the Literature Keystone Exam and texts of increasing complexity.

English 11: Communication Arts 032

Grade level: 11

Credits: 1 Communications and Literature Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course will include activities in communications and literature. This course will support students with analysis of a variety of texts from diverse authors. The communications instruction will include grammar, composition, vocabulary building, speech and career exploration. Students will be expected to read critically, write for a variety of purposes and audiences, and discuss observations of text. This course includes a variety of literature, including novels, short stories, poetry, nonfiction, and science fiction.

A broad variety of instructional techniques will be employed in the classroom, including collaborative and independent work, close reading and annotation, writing, speech, discussion, lecture, research, individual reflection and peer evaluations. This course is designed to expand upon previous knowledge in reading, writing, speaking, and vocabulary and provide supported practice with these skills for practical application to careers after high school.

English 12: Communication Arts 033

Grade level: 12

Credits: 1 Communications and Literature Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course will include activities in communications and literature. This course will support students in making practical applications with communication skills to support them in post-high school careers and endeavors. Through thematic studies and a variety of texts, students will respond to and apply lessons from these texts to real-life situations. Students will be expected to engage in reading and thinking critically, write for a variety of purposes and audiences, and discuss observations of text.

A broad variety of instructional techniques will be employed in the classroom, including extensive collaboration, independent work, writing, speech, discussion, research, individual reflection. This course is designed to expand upon previous knowledge in reading, writing, and speaking and provide supported practice with these skills for practical application to careers after high school.

World Literature & Composition 014

Grade level: 11,12

Credits: 1 Communications and Literature or Arts and Humanities Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Prerequisites: American Literature & Composition 002 (grade of B or better or teacher recommendation)
Or English 10 Communication Arts 031 (grade of A or teacher recommendation)***

This course will include activities in communications and literature. This course will require students to demonstrate in-depth analysis of a variety of texts from diverse authors. The communications instruction will include grammar, composition, vocabulary building, speech and college exploration. Students will be expected to read critically, write developed literary analysis, and discuss observations of literature with complexity. This course includes a variety of literature, including novels, short stories, poetry, nonfiction, Shakespeare, and mythology. Students will write for a variety of purposes and audiences, including a synthesis paper and editorial.

A broad variety of instructional techniques will be employed in the classroom, including collaborative and independent work, close reading and annotation, writing, speech, discussion, lecture, research, individual reflection and peer evaluations. This is a reading and writing intensive course designed to prepare students for post-secondary study.

British Literature & Composition 004

Grade level: 11,12

Credits: 1 Communications and Literature or Arts and Humanities Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Prerequisites: American Literature & Composition 002 (grade of B or better or teacher recommendation)
Or English 10 Communication Arts 031 (grade of A or teacher recommendation)***

This course will include activities in communications and literature. This course will require students to refine their skills for in-depth analysis of a variety of texts. Students will be expected to read critically, examine and critique author's use of literary elements, and write developed literary analysis. Using text evidence and personal commentary, students will also be asked to write and discuss their observations of literature with complexity and professional language. Key assessments include literature-based essays and a literary analysis research paper. Literary material covered includes a survey of British authors from *Beowulf* and *The Canterbury Tales* through Shakespeare, the Age of Reason, the Romantics, and Victorians to some modern writers.

A broad variety of instructional techniques will be employed in the classroom including collaborative and independent work, close reading and annotation with a focus on poetry explication, writing, speech, discussion, lecture, research, individual reflection and peer evaluations. This is a reading and writing intensive course designed to prepare students for post-secondary study.

Thematic Interpretations of Literature and Media 024

Grade level: 11,12

Credits: 1 Communications and Literature or Arts and Humanities Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisites: American Literature & Composition 002 (grade of B or better or teacher recommendation) Or English 10 Communication Arts 031 (grade of A or teacher recommendation)

This course will include activities in communications and literature. Through careful examination of a variety of texts, including a film and theater component, students will be encouraged to refine their skills for in-depth analysis. The course focuses on the most common literary themes and how various authors and mediums approach these themes as they relate to the human condition. In this course, students will engage with and make connections among various texts, such as short stories, poetry, dramatic monologues, non-fiction texts, and films.

A broad variety of instructional techniques will be employed in the classroom including collaborative and independent work, close reading and annotation, writing, speech, discussion, lecture, research, individual reflection and peer evaluations. Students who enroll in this course will be required to perform in front of an audience. This is a reading and writing intensive course designed to prepare students for post-secondary study.

AP Literature & Composition 008

Grade level: 11,12

Credits: 1 Communications and Literature or Arts and Humanities Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisites: American Literature and Composition 003 (grade of A or teacher recommendation)

This course prepares students for the Advanced Placement exam (in May) that may be counted for college credit. Through examination of poetry, fiction, drama and some non-fiction, students will become adept at analyzing literary works in terms of meaning, structure and style. This is a reading and writing intensive course designed to reflect the rigor of post-secondary study.

Students enrolling in this course should be prepared to write at least one essay a week, either as a timed, in-class response to literature or as an out-of-class assignment. Additionally, students will read several novels and shorter works, some of which will be assigned as summer reading. Participation in class discussions is an essential part of success in the course. This course will require students to refine their skills for in-depth analysis of a variety of texts with a high level of complexity. Students will be expected to read critically, examine and critique author's use of literary elements and analyze the impact on author's meaning. Using text evidence and personal commentary, students will also be asked to write and discuss their observations of literature with complexity as well as professional and sophisticated language.

Students enrolled in AP courses are expected to take the AP exam

AP Language & Composition 009

Grade level: 11,12

Credits: 1 Communications and Literature or Arts and Humanities Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisites: *American Literature and Composition 003 (grade of A or teacher recommendation)*

This course prepares students for the Advanced Placement exam (in May) that may be counted for college credit. Students will read memoirs, essays, speeches, and other non-fiction works from various time periods as well as some fiction, poetry, and drama. They will also practice writing their own persuasive essays and memoirs. Students will examine the way authors use the tools of language to construct arguments, influence audiences, and create meaning. This is a reading and writing intensive course designed to reflect the rigor of post-secondary study.

Students enrolling in this course should be prepared to write at least one essay week, either as a timed, on-demand writing, or out-of-class assignment. Additionally, students will read a combination of full-length novels and nonfiction works and several shorter texts, some of which will be assigned as summer reading. Participation in class discussions is an essential part of success in the course.

Students enrolled in AP courses are expected to take the AP exam

Language Acquisition 833

Grade level: 9,10,11,12

Credits: 1 Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course will focus on theme-based language acquisition skills. Instruction will concentrate on development of reading, writing, speaking, and listening skills at the appropriate proficiency level determined by each student's placement on the WIDA Access Placement Test. Multiple assessment methods are used to advance English Language Learners to higher levels of ESL instruction or to exit from the program. In addition, instruction will orientate students to cultural differences such as nonverbal communications skills, American idioms, and regional differences in dialect.

This course is based on students' needs. A range of assessment methods are directed towards assessing individual achievement in language acquisition.

Literacy Enrichment 021

Grade level: 9

Credits: 1 Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course is designed for students who need further instruction in or continued support of reading strategies and their application. Students will enhance their skills for lifelong learning, specifically in reading content area materials. Students will be assigned to this course based on several criteria, including data accumulated from previous assessments. This course will be counted as an elective and will be taken in addition to the required number of English courses.

Speech/Creative Writing 052

Grade level: 10, 11,12

Credits: 1 Elective or Arts and Humanities Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course will allow students to develop their speaking and writing skills while learning to appreciate the value or both. The speech portion of the course will include various forms of oral communication such as informative presentations, persuasive arguments, demonstrations and impromptu speeches. Student will also critique famous speeches. Every speech is required in order to pass the course.

The creative writing portion of the course will allow the students to explore their creative side when expressing their ideas through writing. They will also read and learn to appreciate numerous examples of creative writing. They will write stories, plays, poems, journals, and other forms of creative writing. All written assignments in the course are required and must be completed in order to pass the course. Vocabulary words relating to speech and creative writing will be given regularly.

Journalism 022

Grade level: 10, 11, 12

Credits: 1 Elective or Arts and Humanities Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course offers students an opportunity to become better consumers and creators of news and media while encouraging their civic engagement, awareness, and responsibility. In a newsroom-type setting, students will develop their media literacy skills by examining and analyzing information critically, in addition to writing and producing their own works of journalism and taking on active roles as editors, reporters, and photographers. Fundamentals taught include laws and ethics, interviewing, newsgathering, and the ways in which news, features, and editorials are composed, with particular attention paid to how the Internet has transformed the media landscape.

Research Skills 025

Grade level: 11, 12

Credits: 1 Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course will prepare students to research, evaluate, and document resources that are used in formal papers while developing ethical standards for using the work of others. Students will learn search strategies, identification of reliable information, copyright and plagiarism guidelines, analysis of a research article, APA citations, MLA citations, and Chicago-Style citations. This course is highly recommended to students who plan to attend college and will utilize various online instructional techniques: discussion boards, collaborative work, peerreview, video instruction, and individual activities. The final grade will include the marking period grades and a written formal paper.

Yearbook Production I 044

Grade level: 9, 10, 11, 12

Credits: 1 Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Students enrolled in Yearbook Production I will help produce the yearbook and an online yearbook through layout design, digital photography and writing. A variety of instructional techniques will be employed in the classroom including collaborative exercises, small group work, demonstration, reading, writing, speaking and peer evaluations.

Yearbook Production II 045

Grade level: 9, 10, 11, 12

Credits: 1 Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Yearbook Production I (Grade of B or better and instructor approval)

A student enrolled in this elective course will take a leadership role on the yearbook staff, providing guidance and assistance for Yearbook I students. A variety of instructional techniques will be employed in the classroom including collaborative exercises, small group work, demonstration, reading, writing, speaking and teacher and peer evaluations.

Yearbook Production III 046

Grade level: 10, 11, 12

Credits: 1 Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Yearbook Production II (Grade of B or better and instructor approval)

A student enrolled in this elective course will take a leadership role on the yearbook staff, providing guidance and assistance for Yearbook Production I and II students. A variety of instructional techniques will be employed in the classroom including collaborative exercises, small group work, demonstration, reading, writing, speaking and teacher and peer evaluations.

Yearbook Production IV 047

Grade level: 10, 11, 12

Credits: 1 Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Yearbook Production III (Grade of B or better and instructor approval)

A student enrolled in this elective course will take a leadership role on the yearbook staff, providing guidance and assistance for Yearbook Production I, II and III students. A variety of instructional techniques will be employed in the classroom including collaborative exercises, small group work, demonstration, reading, writing, speaking and teacher and peer evaluations.

FAMILY AND CONSUMER SCIENCES

Course	Course#	Credits	AC	BIMM	EITS	HFS	HNRS
Foods and Baking	596	1.0				✓	
Sewing & Fashion Design	581	1.0				✓	
Sewing and Fashion Design II	584	1.0				✓	
Adult and Family Living	599	1.0				✓	
Child Development	570	1.0				✓	

Foods and Baking 596

Grade level: 9,10,11,12

Credits: 1 Elective Credit

Career Pathways: *Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

This course is designed for students who are interested in understanding the principles of food preparation as well as the foundations for a healthy lifestyle through proper nutrition, food safety, and personal health and well-being. Topics include kitchen safety, equipment, recipe reading, cooking methods, food groups, global foods, ingredient functions, cake decorating, pastry art, and bread making.

Sewing and Fashion Design 581

Grade level: 9,10,11,12

Credits: 1 Elective Credit

Career Pathways: *Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

Students will be expected to purchase fabric and supplies for the major project in addition to their lab fee.

This course is designed for students who are interested in developing basic sewing skills. Selecting fabrics, sewing equipment and various sewing techniques are taught. Students will have the opportunity to create fashions especially for themselves. The course will provide an understanding of measurement, pattern and fabric selection, pattern adjustments, sewing equipment care and maintenance, as well as hand and machine sewing techniques. Course work will include class work, group work, fabric notebook, various small projects, and a major construction project.

Sewing and Fashion Design II 584

Grade level: 10,11,12

Credits: 1 Elective Credit

Career Pathways: *Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisites: *Sewing and Fashion Design 581*

Students in this class will be responsible for paying a \$25 lab fee for their class materials. Students will be expected to purchase fabric and supplies for the major projects in addition to their lab fee.

This course is designed for students that are interested in expanding their sewing and fashion design skills beyond the basics. Students will have the opportunity to learn new techniques, utilize new tools, work on time management, and create several projects with guidance. Previous sewing experience is required.

Adult and Family Living 599

Grade level: 10,11,12

Credits: 1 Elective Credit

Career Pathways: *Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisites: Career and Financial Awareness.

In this course, students develop essential skills to help them transition into adult roles. The management and decision-making process will be applied to the areas of careers, finances, housing, managing a household, consumerism, time management, home upkeep, preparing nutritious meals, caring for children, and preparing for the workforce. Students will have opportunities to improve their skills in oral speaking, researching, and writing.

Child Development 570

Grade level: 11,12

Credits: 1 Elective Credit

Career Pathways: *Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Students will explore the theories, stages and characteristics of child development. Topics covered include parenting, prenatal development, child safety, lesson plan development for a preschool setting, and characteristics of each stage of development. Students will learn how to prepare lesson plans, observe children in a classroom setting and practice developing age appropriate educational activities for children of all ages and stages of life.

LEARNING SUPPORT

Individualized services and programs are available to students who are determined to need specially designed instruction due to the following needs:

- Autism/Pervasive Development Disorder
- Deaf-Blindness
- Developmental Delay (Early Intervention)
- Emotional Disturbance
- Intellectual Disability
- Multiple Disabilities
- Other Health Impairments
- Orthopedic Impairment
- Specific Learning Disability
- Speech and Language Impairment
- Sensory Impairment – Vision Impairment/Hearing Impairment
- Traumatic Brain Injury

If you believe that your student may be in need of special education services, evaluation processes designed to assess the needs of the student and his/her eligibility are available. Concerns should be directed to the student's guidance counselor.

Direct Instruction Classes

Students are scheduled to take direct instruction courses based on the goals and objectives that are outlined in their Individual Education Plans. Classes in the curricular areas of reading, writing, mathematics, science, social studies, health, and personal choices/decision making are taught by Special Education teachers.

Additional information pertaining to the skills taught in these courses is outlined below:

- **English:** The learning support department offers several levels of English courses. The skills taught in these courses include, but are not limited to: reading comprehension and analysis, reading fluency, decoding, exposure to and interaction with fiction and non-fiction text, and written expression in the areas of: focus, content, organization, style, and conventions. Students receive instruction, based on the needs outlined in their Individual Education Plans, which will support them to work toward their transition goals.
- **Mathematics:** The learning support department offers several levels of Mathematics courses. The skills taught in these courses include, but are not limited to: foundational math skills, money management, measurement, introductory pre-algebra skills, and basic geometry skills. Students receive instruction, based on the needs outlined in their Individual Education plans, which will support them to work toward their transition goals.
- **Personal Choices/Decision Making:** The learning support department offers several courses which address the social, emotional, and behavioral needs of students with Individual Education Plans. These courses include instruction on: decision making, stress management, managing conflict, emotional regulation, time management, social thinking, coping strategies, and building positive relationships. Participation in these courses is determined based on the needs identified by the student's IEP team.
- **Science:** The purpose of this course is to provide students with a practical understanding of science in relationship to the world around them. Topics covered include, but are not limited to: weather, plants, animals, environments, and nutrition. This course will allow students to develop a better understanding of the world around them, the food chain, the similarities and differences between living and non-living things, food groups, nutrition, and the components of a healthy diet.

- **Social Studies:** The purpose of this course is to provide students with an understanding of geography, the United States, and their local community. During this course, students will learn about geography, will increase their familiarity with each state in the United States, and will understand their rights and the resources that are available to them in their community.
- **Health:** The purpose of this course is to provide students with the skills and knowledge they need to maintain a healthy lifestyle. Students will receive instruction on understanding the body systems and their functions, maintaining daily hygiene, and developing safe and healthy relationships.

S.K.I.L.L.S. 879

Self-Advocacy Knowledge Independence Learning Living Success

S.K.I.L.L.S. is a work-based learning program that focuses on preparing students for the workforce. This work-based learning environment provides experiences that contribute to the career development and work readiness of students. This program also supplements experiences with school and community-based activities that reinforce the learning outside the classroom. Furthermore, this program provides students with opportunities to practice learned skills and implement them in real-life situations. By participating in real-life work activities such as paid and volunteer work crews (independent and group), competitive employment, independent work-study, internships, tours and job shadows, students hone their work skills and further their independence.

Study Skills/Transition 884

Grade level: 9,10

Credits: 1 Elective Credit

Career Pathways: All 5 Areas

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course supports students as they work toward meeting the transition goals, which are identified in their Individual Education Plans. In this course, students engage in career exploration, resume writing, completion of job applications, development of a cover letter, and interview skills. They also receive instruction in the areas of: time management, organization, and work completion to support both their academic and transition needs.

Art in Action 488

Grade level: 9, 10, 11, 12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: Arts and Communication

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

This course will enhance your artistic skills. If you had an interest in art but never really knew what your “Artist Style” was, then this class is for you. This course introduces students to a variety of new arts. Learn new art forms and techniques each week. Some of the topics to be covered include but are not limited to, drawing, painting, batik, weaving, pottery, glass fusion, metalsmithing and so much more. This course will only be offered once a year. Participation in the Art show and displaying work will be required.

Adapted Physical Education

Grade level: 9, 10, 11, 12

Credits: 0.5 Credit

Career Pathways: All 5 Areas

Periods per Cycle: 6

Length of Course: Need based
Standard G.P.

This course is provided so that all students may participate in physical education. Any student with a disability limiting him/her from regular physical education classes will have modified instruction. Any adapted physical education program must be based on a physician's medical diagnosis and recommendations. Adapted physical education is composed of two specific categories: modified physical education and remedial physical education. Modified physical education is taking the well-known physical education activities and adapting them to specially restricted needs.

MATHEMATICS

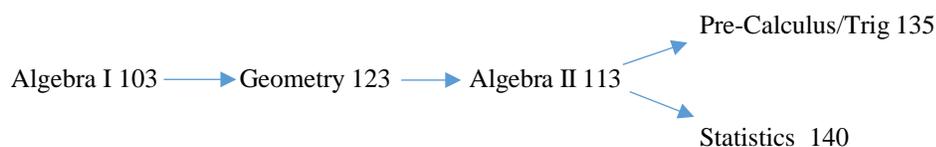
Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Pre-Algebra	098	1.0	✓	✓	✓	✓	✓
Algebra IA	103A	1.0	✓	✓	✓	✓	✓
Algebra IB	103B	1.0	✓	✓	✓	✓	✓
Algebra I	103	1.0	✓	✓	✓	✓	✓
Keystone Enrichment - Algebra	096	1.0	✓	✓	✓	✓	✓
Algebra II	113	1.0	✓	✓	✓	✓	✓
Honors Algebra II	114A	1.0	✓	✓	✓	✓	✓
Geometry	123	1.0	✓	✓	✓	✓	✓
Honors Geometry	124A	1.0	✓	✓	✓	✓	✓
Precalculus/Trigonometry	135	1.0	✓	✓	✓	✓	✓
Honors Precalculus/Trigonometry	135A	1.0	✓	✓	✓	✓	✓
Statistics	140	1.0	✓	✓	✓	✓	✓
AP Statistics	142	1.0	✓	✓	✓	✓	✓
Applied Calculus	143	1.0	✓	✓	✓	✓	✓
AP Calculus AB	144	1.0	✓	✓	✓	✓	✓
AP Calculus BC	146	1.0	✓	✓	✓	✓	✓
AP Computer Science A	147	1.0	✓	✓	✓	✓	✓

Recommended Mathematics Tracks

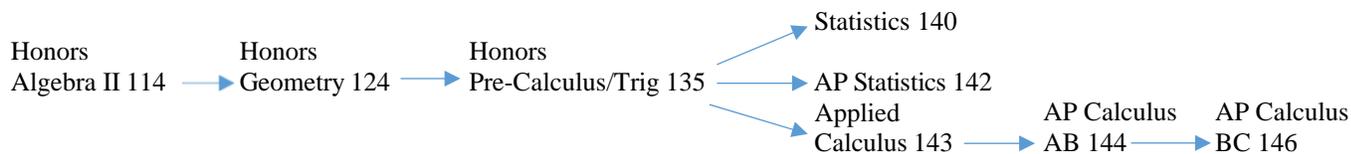
Option 1

Pre-Algebra 098 → Algebra IA 103A → Algebra IB 103B → Geometry 123 → Algebra II 113 → Statistics 140

Option 2



Option 3



Pre-Algebra 098

Grade level: 9,10
Credits: 1 Math Credit
Career Pathways: *All 5 areas*

Period per Cycle: 6
Length of Course: 90 days
Standard G.P.

Pre-Algebra is an introduction to algebra concepts. The course allows for pacing that suits student abilities. Topics of study include signed numbers, exponents, solving equations, graphs and statistical applications of algebra.

Algebra IA 103A

Grade level: 9,10
Credits: 1 Math Credit
Career Pathways: *All 5 areas*

Period per Cycle: 6
Length of Course: 90 days
Standard G.P.

Algebra I 103A is the first course in a two-semester course that prepares students for the Algebra I Keystone Exam at the completion of Algebra I 103B. Topics of study include solving linear equations and inequalities, graphing and writing linear functions, solving systems of linear equations and exponential functions and sequences.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

Algebra IB 103B

Grade level: 9,10,11
Credits: 1 Math Credit
Career Pathways: *All 5 areas*

Period per Cycle: 6
Length of Course: 90 days
Standard G.P.
***Keystone Course**

Prerequisite: Algebra I 103A

The Algebra I Keystone exam is taken at the end of this course.

Algebra I 103B is the second in a two semester course that prepares students for Algebra I Keystone Exam. Topics of study include polynomial equations and factoring, graphing and solving quadratic functions, radical functions and equations, probability and data analysis. The course will also review topics and prepare students to take the Algebra I Keystone Exam at the end of the semester. Students who do not score at least proficient after taking the Algebra I Keystone Exam may be required to complete the Keystone Enrichment course in order to retake the Algebra I Keystone Exam.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

Algebra I 103

Grade level: 9,10
Credits: 1 Math Credit
Career Pathways: *All 5 areas*

Period per Cycle: 6
Length of Course: 90 days
Standard G.P.
***Keystone Course**

The Algebra I Keystone exam is taken at the end of this course.

Algebra I is a beginning course in algebra. Topics of study include solving and graphing linear equations/inequalities, absolute value equations/inequalities, and systems of linear equations/inequalities. The curriculum also includes factoring quadratics and data analysis. Students who are not proficient on the Algebra I Keystone exam may be required to take the Keystone Enrichment course before retaking the exam.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

Keystone Enrichment – ALG 096

Grade level: 10,11
Credits: 1 Elective Credit
Career Pathways: *All 5 areas*

Period per Cycle: 6
Length of Course: 90 days
Standard G.P.

The Algebra I Keystone exam is retaken at the end of this course.

This course is for a student who passed Algebra I but did not score proficient or advanced on the Algebra I Keystone. The course reviews topics and prepares students to retake the Algebra I Keystone at the end of the semester.

Algebra II 113

Grade level: 10,11
Credits: 1 Math Credit
Career Pathways: *All 5 areas*

Period per Cycle: 6
Length of Course: 90 days
Standard G.P.

Prerequisite: Algebra I 103, Algebra I 103A and Algebra I 103B and Geometry 123

Algebra II is a continuation of Algebra I. Topics include an extensive study of quadratic functions and applications, powers, roots, radicals, polynomials and polynomial functions, applications of variations and mathematical modeling.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

Honors Algebra II 114A

Grade level: 9

Credits: 1 Math Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: Recommendation of math teacher

Honors Algebra II is a continuation of Algebra I from the middle school for students who scored proficient or advanced on the Algebra I Keystone Exam. Topics include an extensive study of quadratic functions and applications, powers, roots, radicals, polynomials and polynomial functions, exponential and logarithmic functions, and applications of variations and mathematic modeling.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

Geometry 123

Grade level: 9,10,11

Credits: 1 Math Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Algebra I 103 or Algebra I 103A and Algebra I 103B

Students will use an informal guided discovery approach and work with a variety of geometric tools to discover geometric properties by experimentation and observation. Students will develop independent thinking skills and collaboration skills, while they investigate geometric definitions, create works of art, and discover geometric relationships. Students will also be introduced to geometric proofs.

Honors Geometry 124A

Grade level: 9,10

Credits: 1 Math Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: Honors Algebra II 114A or teacher recommendation

Students will use an informal guided discovery approach and work with a variety of geometric tools to discover geometric properties by experimentation and observation. Students will develop independent thinking skills and collaboration skills, while they write geometric definitions, create works of art, complete constructions, develop geometric proofs and discover geometric and trigonometric relationships. All topics will be covered in depth as students learn to establish geometric truths through the writing and development of proofs.

Pre-calculus/Trigonometry 135

Grade level: 10, 11,12

Credits: 1 Math or STEM Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Geometry 123 and Algebra II 113

Pre-calculus topics including functions, exponentials, logarithms and trigonometry are included using both graphical and algebraic methods. This course is intended for students planning to take Applied Calculus.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

Honors Pre-calculus/Trigonometry 135A

Grade level: 10, 11,12

Credits: 1 Math or STEM Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: Honors Geometry 124 and Honors Algebra II 114

Pre-calculus topics including functions, exponentials, logarithms and trigonometry are included using both graphical and algebraic methods. This course is intended for students planning to take Applied Calculus and Advanced Placement Calculus.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

Statistics 140

Grade level: 11,12

Credits: 1 Math, STEM or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Algebra II 113

This course is an opportunity for students to learn statistics at an in-depth perspective in preparation for college. Topics include descriptive statistics, probability, normal distributions confidence intervals, and hypothesis testing.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

AP Statistics 142

Grade level: 11,12

Credits: 1 Math, STEM or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisite: Students must have earned an A or B in Honors Algebra II 114 or an A in Algebra II 113.

AP Statistics provides students with the opportunity to earn college credit for statistics upon earning a high score on the AP test. Topics include descriptive statistics, probability, normal distributions, confidence intervals, and hypothesis testing. The complete curriculum is available as given in the College Board AP Statistics information. The students will also be required to do prep work for this class. Students should consult with the instructor before enrolling in this course.

*Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.
Students enrolled in AP courses are expected to take the AP exam.*

Applied Calculus 143

Grade level: 11,12

Credits: 1 Math, STEM or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: Precalculus 135 or Honors Precalculus 135A

Applied Calculus topics include polynomial, rational, radical, exponential, logarithmic and functions. Also included will be the limits, derivatives and anti-derivatives of those functions and numerous applications to science, business, economics and life and social science.

Students are encouraged to have their own TI-84 Plus CE, TI-84 Plus or TI-84 graphing calculator.

AP Calculus AB 144

Grade level: 11,12

Credits: 1 Math, STEM or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisite:

Honors Pre-calculus 135A, Applied Calculus 143 and/or teacher recommendation

Advanced Placement Calculus includes the theory and application of limits, derivatives, and integrals, including algebraic, trigonometric, and transcendental functions. All topics required for the AB Advanced Placement Calculus test are included. Students must have access to and know how to use a graphing calculator. Students should consult with the instructor before enrolling in this course.

Students enrolled in AP courses are expected to take the AP exam.

AP Calculus BC 146

Grade level: 11,12

Credits: 1 Math, STEM or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisite: AP Calculus AB 144

Students must receive permission from the instructor prior to enrolling in this course.

Advanced Placement Calculus BC includes the theory and applications of limits, derivatives, integrals, sequences and series, polar and parametric equations. All topics required for the BC Advanced Placement Calculus exam are included. Students must have access to and know how to use a graphing calculator. This course will require students to learn independently, using the instructor as a resource for difficult to understand topics.

Students enrolled in AP courses are expected to take the AP exam.

AP Computer Science A 147

Grade level: 10,11,12

Credits: 1 Math, STEM or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisite: Computer Programming (grade of B or better)

AP Computer Science A is a course that 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 programming and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can range from small, simple problems to large, complex problems.

Students enrolled in AP courses are expected to take the AP exam.

MUSIC

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Music Production I	493	1.0	✓				
Music Production II	494	1.0	✓				
Music Theory	509	1.0	✓				
Music Theory II	495	1.0	✓				
Applied Music Performance I Guitar, Piano, Voice	539	1.0	✓				
Applied Music Performance II Guitar, Piano, Voice	540	1.0	✓				
Movie Music (Modern Music Media)	497	1.0	✓				
Choir I	500	1.0	✓				
Choir II	502	1.0	✓				
Wind Ensemble I	507	1.0	✓				
Wind Ensemble II	510	1.0	✓				
Wind Ensemble I/Choir I	512	1.0	✓				
Wind Ensemble II/Choir II	516	1.0	✓				
Choralaires (Focus)	517	.5	✓				
Symphonic Band (Focus)	518	.5	✓				
Symphonic Band/Choralaires (Focus)	519	.5	✓				

Music Production I 493

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This class provides music students with instruction in the elements of music, recording, composing/arranging, and mixing. Hands-on learning takes place through the use of a computer, recording studio and MIDI keyboard lab. Students learn beginning recording and mixing techniques, study musical concepts, and apply that knowledge with lots of creative development time by composing original works in GarageBand and Logic Pro. The software offers a wide palette of loops and additional effects that help students create impressive musical products in a variety of styles and genres. Opportunities for recording voices and/or instruments are provided as well.

Music Production II 494

Grade level: 10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Music Production I

This course is designed as an extension of students' experiences in Music Production I and is designed to provide serious music students with advanced instruction in the elements of music, recording, composing, and mixing. Hands-on learning takes place through the use of a computer, recording studio, and MIDI keyboard lab. Students analyze professional mixes, investigate musical style concepts, and apply that knowledge with lots of creative development time by composing original works in GarageBand and Logic Pro. Opportunities for recording your voice and/or instrument are provided as well. Students develop their own album comprised of creative projects based on their own artistic interest and use their recording and mixing abilities to generate a professional product.

Music Theory 509

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

A project and final exam are required for this course.

This course explores beginning techniques of analyzing, composing, and interacting with music. Students will complete this course with a basic knowledge of writing a musical composition. The course emphasizes basic music theory concepts, composition, listening skills, music dictation, and music history. All students who are interested in advancing their general musical knowledge can benefit from this course.

Music Theory II 495

Grade level: 10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Music Theory (Grade of B or better)

This course explores advanced techniques of analyzing, composing, and interacting with music. Students will be prepared to take the AP Music Theory exam upon completion of this course. The course emphasizes advanced music theory concepts, composition, listening skills, music dictation, sight-reading, and music history.

Applied Music Performance I (Guitar, Piano, Voice) 539

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Want to learn to sing or play piano or guitar without the pressure of performing in front of an audience? This course is designed not only for students with no previous experience with their instrument of choice, but also for students with experience who are looking to improve their performing abilities. Students receive individual instruction on the instrument of their choice (guitar, piano or voice). Students get advice about the best techniques to improve their performance skills in different musical styles. Topics of study include music fundamentals, listening skills, posture/positioning, music selection in multiple styles, and performance critique. This course may be repeated for credit at a more advanced level. *Include instrument choice on course selection form (guitar, piano or voice)

Applied Music Performance II (Guitar, Piano or Voice) 540

Grade level: 10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Applied Music Performance I (Grade of B or better)

Want to learn to sing or play piano or guitar without the pressure of performing in front of an audience? This course is designed as an outgrowth of students' experiences in Applied Music Performance I and is designed to provide serious music students with advanced instruction. Students receive individual instruction on the instrument of their choice (guitar, piano, or voice). Students get advice about the best techniques to improve their performance skills in different musical styles. Topics of study include music fundamentals, listening skills, posture/positioning, music selection in multiple styles, and performance critique. This course may be repeated for credit with focus on another instrument or building advanced level skills in the original instrument of choice.

*Include instrument choice on course selection form (guitar, piano or voice)

Movie Music (Modern Music Media) 497

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Like movies? Like music? This course is recommended for all students interested in music, from hobbyists to future professionals and career-seekers. Students analyze and interpret (and enjoy!) music, sound, and visual elements found in films and other modern media. Past and current media are explored, as are individual student choices, such as *Star Wars*, the Marvel films, and much more. Students will have opportunities to develop soundtracks for visual media using GarageBand.

Choir I 500

Grade level: 9,10

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Choir I is open to all students in grades 9 and 10 who have an interest in developing their vocal skills. In this class, students are introduced to choral repertoire from different time periods and in different languages. Students in choir develop vocal techniques and musicianship skills. They also learn to recognize and utilize terminology in choral music. Students interested in both band and choir should see the information in the “Wind Ensemble/Choir” courses.

This course also includes some mandatory out-of-school performances.

Choir II 502

Grade level: 11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Choir II is open to all students in grades 11 and 12 who have an interest in developing their vocal skills. In this class, students are introduced to choral repertoire from different time periods and in different languages. Students in choir develop vocal techniques and musicianship skills. They also learn to recognize and utilize terminology in choral music. Students interested in both band and choir should see the information in the “Wind Ensemble/Choir” courses.

This course also includes some mandatory out-of-school performances.

Wind Ensemble I 507

Grade level: 9,10

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Entrance by audition

Must also take Symphonic Band 518 or Symphonic Band/Choralaires 519 both semesters in the same school year.

This course is designed for students in grades 9 and 10 who have been accepted via audition to Wind Ensemble. Students will work and rehearse music of various time periods and levels. Students will rehearse and perform basic music-reading skills through advanced musician techniques, including rhythm, note values, meter, key signatures, breathing techniques, and composer associated with each work.

This course also includes some mandatory out-of-school performances.

Wind Ensemble II 510

Grade level: 11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Entrance by audition

Must also take Symphonic Band 518 or Symphonic Band/Chorales 519 both semesters in the same school year.

This course is designed for students in grades 11 and 12 who have been accepted via audition to Wind Ensemble. Students will work and rehearse music of various time periods and levels. Students will rehearse and perform basic music-reading skills through advanced musician techniques, including rhythm, notes, note values, meter, key signatures, breathing techniques, and composers associated with each work.

This course also includes some mandatory out-of-school performances.

Wind Ensemble I/ Choir I 512

Grade level: 9,10

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Entrance by audition

Must also take Symphonic Band 518 or Symphonic Band/Chorales 519 both semesters in the same school year.

This course is designed for students in grades 9 and 10 who perform in both band and choir. Please refer to the course descriptions for Wind Ensemble I and Choir I for more details. These courses meet at the same time and students will alternate class time between the two courses.

Wind Ensemble II/ Choir II 516

Grade level: 11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Entrance by audition

Must also take Symphonic Band 518 or Symphonic Band/Chorales 519 both semesters in the same school year.

This course is designed for students in grades 11 and 12 who perform in both band and choir. Please refer to the course descriptions for Wind Ensemble II and Choir II for more details. These courses meet at the same time, and students will alternate class time between the two courses.

Choralaires 517 (Focus)

Grade level: 9,10,11,12

Credits: .5 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 4

Length of Course: 180 days

Not included in Weighted G.P.A

Prerequisite: Entrance by audition

Choralaires is designed to provide advanced vocalists with a smaller vocal ensemble opportunity. Students will develop their vocal technique. Advanced musicianship skills will be developed through high level choral repertoire, vocal exercises and public performances. Choral repertoire will be chosen from a variety of historical time periods, including contemporary music. Different styles and languages are chosen to provide awareness of musical style and performance techniques. This course also includes several mandatory out-of-school performances.

Participation in Choir I/II is highly recommended in the same school year.

Symphonic Band 518 (Focus)

Grade level: 9,10,11,12

Credits: .5 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 4

Length of Course: 180 days

Not included in Weighted G.P.A

30-minute weekly instrumental sectionals are required.

This course is open to all students in grades 9-12 who have developed a high level of proficiency on a brass, woodwind, or percussion instrument. Course requirements include regular practice/demonstration of progress. The course also includes some mandatory out-of-school performances. Music will be rehearsed to develop the skills needed to excel on the student's selected instrument.

Symphonic Band/Choralaires 519 (Focus)

Grade level: 9,10,11,12

Credits: .5 Arts or Humanities Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 4

Length of Course: 180 days

Not included in Weighted G.P.A

Prerequisite: Entrance by audition

30-minute weekly instrumental sectionals are required.

This course is a combination of Choralaires and Symphonic Band. It is designed for students interested in both Symphonic Band and Choralaires. Please refer to the course description for each course. Students enrolled in this course will alternate rehearsals between Choralaires and Symphonic Band.

Participation in Choir I/II is highly recommended in the same school year.

PHYSICAL EDUCATION/HEALTH

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Physical Education 9	604	.5	√	√	√	√	√
Health I	600	.5	√	√	√	√	√
Physical Education 10	606	.5	√	√	√	√	√
Health/Driver's Education	613	.5	√	√	√	√	√
Personal Fitness	612	1.0	√	√	√	√	√
Health and Wellness Course	616	1.0	√	√	√	√	√
Basics of Fitness and Lifetime Activities	617	1.0	√	√	√	√	√

The Cocalico High School Physical Education program is designed to prepare our youth for a lifetime of health and physical fitness.

Physical Education 9 604

Grade level: 9

Credits: .5 P.E. Credit

Career Pathways: All 5 areas

Periods per Cycle: 6

Length of Course: 45 days

Standard G.P.

Grades will be based on class preparation, class participation, physical fitness testing, and written & skill testing.

Ninth grade Physical Education is designed to develop an individual's best physical capacities, improve social competencies and teamwork, teach appropriate emotional responses, and foster recreational skills with an emphasis on team sports, movements, personal fitness, and adventure activities. Students are taught the fundamentals and given opportunities to develop these skills through active co-ed participation.

Students will take this course for 45 days; the other 45 days will be in Health I

Health I 600

Grade level: 9

Credits: 0.5 Credit

Career Pathways: All 5 areas

Periods per Cycle: 6

Length of Course: 45 days

Standard G.P.

This course addresses emotional health, understanding stress, risks, coping with death, decision making, communication, self-value, teen mental wellness, drug and alcohol addiction, human sexuality, sexually transmitted diseases, pregnancy, fitness and nutrition. Class assessments will include tests, group activities, a mandatory drug research project, and a final exam.

Students will take this course for 45 days; the other 45 days will be in Physical Education.

Physical Education 10 606

Grade level: 10
Credits: 0.5 Credit
Career Pathways: All 5 areas

Periods per Cycle: 6
Length of Course: 45 days
Standard G.P.

Grades will be based on class preparation, class participation, physical fitness testing, written and skill testing.

Physical education is designed to develop an individual's best physical capacities, improve social competencies and teamwork, teach appropriate emotional responses, and foster recreational skills with an emphasis on team activities, movement, and personal fitness. Students are taught the fundamentals and given opportunities to develop these skills through active co-educational participation.

Students will take this course for 45 days; the other 45 days will be in Health/Drivers Education

Health/Driver's Education 613

Grade level: 10
Credits: 0.5 Credit
Career Pathways: All 5 areas

Periods per Cycle: 6
Length of Course: 45 days
Standard G.P.

This course addresses a holistic approach to wellness through understanding disease/illness prevention. Included in this course will be discussions and activities on topics such as sexually transmitted infections, first aid, community CPR, diseases and Driver's safety education. Class assessments will include tests, group activities, CPR and first aid skills, as well as the completion of a mandatory final project.

Students will take this course for 45 days; the other 45 days will be in Physical Education

Personal Fitness, Cardio and Strength Training 612

Grade level: 11, 12
Credits: 1 Elective Credit
Career Pathways: All 5 areas

Periods per Cycle: 6
Length of Course: 90 days
Standard G.P.

The Strength and Conditioning course will give students the tools and resources needed to be physically fit and healthy for a lifetime. This course requires a combination of weight training, cardiorespiratory activities, flexibility exercises, as well as team and individual sports to improve each students' personal goals. This course focuses on personal fitness assessments followed by individual goal setting. Skill Related Fitness will also be taught within this course which includes agility, balance, coordination, speed, reaction time and explosive power. Students will be learning and reviewing the elements of fitness and principles of exercise and use them to achieve their fitness goals. This includes but not limited to flexibility, cardiovascular endurance, muscular strength, muscular endurance and body composition.

Health and Wellness 616

Grade level: 11, 12

Credits: 1 Elective Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course offers physical activity in combination with mental, emotional and social wellness. Within this course students will be introduced to cardiovascular endurance exercises, circuit training, HITT workouts, mindful mediation, nutrition lessons, Pilates, stress reduction activities/ lessons, trending workout(s), walking, weight training, yoga, Zumba and more. Students will be given the chance to participate in new activities that provide physical health benefits along with stress management techniques. Students will be assessed by keeping a daily journal, participation, and researching and creating their own activities to share with their peers. This course will provide students with learning opportunities and discussions about how these activities helped to mediate stress. This course will also use current trends and technology to show students that they can access wellness/stress management tools easily should they need them in the future. Our goal is for students to gain some insight into new activities they may have never experienced before, while also learning some mindful skills and coping mechanisms.

Basics of Fitness and Lifetime Activities 617

Grade level: 11, 12

Credits: 1 Elective Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

The first half of this course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will be able to identify the areas of weakness in different aspects of his/her aerobic capacity and fitness levels and make the necessary adjustments. Students will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning.

The second half of this course consists of activities that students can continue to do throughout their lives, either individually, or with a partner/small group. Students will develop an appreciation for wellness through a daily exercise regimen. Students will develop basic fundamental skills necessary to participate in various lifetime activities. Units in this section may include, but are not limited to badminton, tennis, ping-pong, archery, yoga, spike ball, walking/jogging, golf, pickleball, cycling, disk golf.

SCIENCE

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Principles of Science	201	1.0	✓	✓	✓	✓	✓
Biology	204	1.0	✓	✓	✓	✓	✓
Honors Biology	204A	1.0	✓	✓	✓	✓	✓
Chemistry	207	1.0	✓	✓	✓	✓	✓
Chemistry II	212	1.0	✓	✓	✓	✓	✓
Chemistry in the Community	219	1.0	✓	✓	✓	✓	✓
Physics	209	1.0	✓	✓	✓	✓	✓
Principles of Technology	217	1.0	✓	✓	✓	✓	✓
Anatomy & Physiology	205	1.0	✓	✓	✓	✓	✓
AP Biology	206	1.0	✓	✓	✓	✓	✓
AP Physics	210	1.0	✓	✓	✓	✓	✓
Environmental Science	214	1.0			✓	✓	✓
Drones	220	1.0			✓		
Introduction to Forensics	222	1.0			✓	✓	✓
Astronomy/Meteorology	215	1.0				✓	✓

Advancements in science and technology have produced a rapidly changing world. Students must be well prepared in science, since it applies to their life experiences. The overall goal of the science department is to help students understand the concepts which form the foundation of science in their everyday lives.

3 Science credits – Standard Pathway: POS, Biology, Chemistry or Physics; High Achievers: Honors Biology, Chemistry, Physics

To qualify for “High Achieving” track, the students must meet or exceed the following:

1. Projected to score advanced on the Biology Keystone Exam based upon his/her individual PVAAS Projection (Projected State Percentile)
2. Final Grades of A-or higher in both 7th and 8th grade science classes
3. The student and parents/guardians will be part of the decision-making process of participating in the accelerated science pathway.

Principles of Science 201

Grade level: 9

Credits: 1 Science Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

The 9th grade Principles of Science class is a survey course of Earth and Space Sciences. We will be focusing on current scientific topics such as energy sources, climate change, Earth systems, and space exploration. The skills we will be developing are the scientific method, measuring, and science literacy.

Biology 204

Grade level: 9, 10

Credits: 1 Science Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

***Keystone Course**

The Biology Keystone Exam is taken at the end of this course.

This course stresses the basis of knowledge within the biological sciences that every person should know. Concepts include molecular and cellular biology, genetics, evolution, taxonomy, and ecological relationships. Through lecture, class discussion, group work, problem solving, and library research, activities are presented in such a manner that students will develop a scientific perspective from which they can appraise future events in their lives.

Honors Biology 204A

Grade level: 9, 10

Credits: 1 Science Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Honors G.P.

***Keystone Course**

*The Biology Keystone Exam is taken at the end of this course.
Prerequisites: Recommendation from previous science teacher*

This course focuses on the needs of academically successful students who have a serious interest in science. Participating students should desire to meet the additional challenges of classroom work that emphasizes an in-depth look at biological concepts and applications as well as discussion and debate of current issues in science.

This course stresses knowledge within the biological sciences. Concepts include molecular and cellular biology, genetics, evolution, taxonomy, and ecological relationships. Through lecture, class discussions, group work, problem solving, and research, activities are presented in such a manner that students will develop a scientific perspective from which they can appraise future events in their lives.

Chemistry 207

Grade level: 10,11,12

Credits: 1 Science or STEM Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisites: Biology or Honors Biology

This course is designed to provide students with the science background lab skills, and a work ethic necessary to succeed in a higher education setting (four-year college, two-year program). This will be achieved through a balance of experimentation, observation, and various in-class problem-solving activities/discussions. Student attendance and daily participation are very beneficial for succeeding in this course.

Chemistry II 212

Grade level: 11,12

Credits: 1 Science, STEM or Elective Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 Days

Honors G.P.

Prerequisites: Chemistry 207 (grade of B or better), Algebra II (grade of B or better), and Pre-Calculus (can also be a co-requisite)

Students should consult with the instructor before enrolling in this course.

Chemistry II, is an advanced course in which students will further develop their ability to think analytically, problem-solve and express ideas, both orally and in writing. Students will learn advanced concepts in chemistry that will also involve chemical problem-solving and lab techniques. Such topics as solution stoichiometry, bonding and atomic structure, acids and bases, oxidation-reduction reactions, thermochemistry, rates of reactions, and electrochemistry will be covered. Some of the lab experimentation that this course will offer include the use of gas laws and properties of solutions to determine the identity of unknowns: titrations and examination of titration curves to explore acids, bases and buffers; examination/calculation of heats of reactions through calorimetry; and use of gravimetric analysis to determine a chemical formula. Current events in the world of chemistry will also be explored.

Chemistry in the Community 219

Grade level: 11,12

Credits: 1 Science or STEM Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 Days

Standard G.P.

Chemistry in the Community (ChemCom) is a course in which the emphasis is placed on chemistry's impact on society. The most unique feature of ChemCom is that the chemistry is taught on a "need to know" basis, with societal and technological issues and problems determining the depth and breadth of the chemistry concepts taught. The goals of ChemCom are:

1. Assist students in realizing the importance of chemistry in their personal and professional lives
2. Instill in students an awareness of both the potential and limitations of science and technology.

The course is comprised of units that focus on chemistry-related issues that confront society. The topics presented serve as a foundation for conveying the chemistry necessary to properly analyze and understand these issues. In the analysis, the course incorporates a great number and variety of student-oriented activities including labs, projects and student lab reports.

Physics 209

Grade level: 10,11,12

Credits: 1 Science or STEM Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisites: Algebra II and Biology or Honors Biology

Physics is a study of the physical world, matter, and energy. Mathematical relationships are developed and discussed through a combination of demonstrations, lectures, laboratory experiences, and projects. The course is designed around an inquiry approach based on critical thinking in a lab setting. The course includes mechanics, wave analysis, and electricity.

Principles of Technology 217

Grade level: 11,12

Credits: 1 Science or STEM Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Biology

This is an applied physics course for vocational and technical students that builds a firm foundation for understanding technology both for today and tomorrow. This course will provide students with hands-on experience and the fundamental problem-solving skills that they will need to adapt to the changing work environments that they will face on the job. It applies physics principles to technological situations and will concentrate on the use of physics in the workplace. Principles of Technology presents an integrated package of competency-based text materials, hands-on laboratory activities, and mathematical skill labs. The course is based on thematic units that build on the knowledge learned in the previous units.

Anatomy and Physiology 205

Grade level: 11,12

Credits: 1 Elective or STEM Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: Biology, Chemistry (grade of C or better)

The material covered will emphasize hands-on, active student participation (vertebrate dissection and laboratory activities) rather than rote memorization of terminology to acquire the understanding that the human body systems work together to produce a coordinated, smooth-working entity in health (homeostasis).

AP Biology 206

Grade level: 11,12

Credits: 1 Science, STEM or Elective Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisite: *Biology, Chemistry (grade of C or better)*

The AP Biology course will place great emphasis on independent study and research. Students should consult with the instructor before enrolling in this course.

AP Biology deals with life at the molecular and organismic level, and its structure, function, and interactions. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Teaching methods include lecture, demonstrations, and inquiry-based investigations. This course is designed for students whose future may require a strong background in biology. Units will include the bio-chemical nature of life (molecules and cells), heredity and evolution, the diversity of organisms, the structure and function of major systems of plants and animals, and ecology.

Students enrolled in AP courses are expected to take the AP exam.

AP Physics 210

Grade level: 11,12

Credits: 1 Science, STEM or Elective Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisite: *Algebra II, Physics (grade of B or better)*

Co-requisites: *Applied Calculus or AP Calculus (or Pre-Calculus/Trigonometry, with instructor's permission)*

Physics is a study of the physical world, matter, and energy. Mathematical relationships are developed and discussed through a combination of demonstrations, lectures, laboratory experiences, and projects. The course includes an algebra-based approach to mechanics, wave analysis, electricity, and magnetism. Students enrolling in this course should be prepared to devote additional time to study outside of class.

Students enrolled in AP courses are expected to take the AP exam.

Environmental Science 214

Grade level: 10,11,12

Credits: 1 STEM or Elective credit

Career Pathways: *Engineering/Industrial and Technology Sciences, Health and Natural Resource Sciences, Human and Family Services*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course is designed to improve student awareness of the natural world and to add depth to their understanding of environmental problems.

Concepts include: ecosystems biochemical cycles, pollution, land use, population growth, energy, and environmental policies. Through discussions, laboratory and field activities, case studies and research, students will develop an increased level of appreciation for the environment and the skills necessary to address the environmental issues we are facing now and in the future.

Drones 220

Grade level: 10, 11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technology Sciences*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

With the rise of unmanned aerial vehicles (UAV) across industries, there is a need for educated and talented individuals to prepare for new careers in this area. This course combines physics, mechanics, and electronics. Students will learn about the technology and history of drones, as well as the legal, safety, and ethical issues associated with their use. Throughout the course, students will build their drone, participate in flight simulation and training, and finally fly the drone they built. Upon completion of the course, the student will have earned their PCS drone pilot certification, provided the student is 16 years or older.

Introduction to Forensics 222

Grade level: 11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technology Sciences, Health and Natural Resource Sciences, Human and Family Services*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Biology or Honors Biology

Are you an ID Addict? (Investigation Discovery Channel) Do you enjoy CSI or Forensic Files? Are you a fan of the “Who dunnits?” This is a *realistic* look at forensic science. What it is and what it is not. The history of forensic science dates back to the 1700s with major advancements following trends in technology. The tools of science and the logic of scientific inquiry are fundamental to forensic investigation. This course is an introduction to the history and development of forensic science as well as to some basic techniques used in forensic investigation. In addition to analyzing evidence, writing detailed reports and providing testimony are key functions of a forensic scientist and will be incorporated into course assessment. Emphasis will be on communication as personal interviews, written reports and verbal testimony.

Astronomy/Meteorology 215

Grade level: 10,11,12

Credits: 1 Elective Credit

Career Pathways: *Health and Natural Resource Sciences, Human and Family Services*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Astronomy and Meteorology is an elective course offered for those students interested in receiving a more in-depth understanding of the world around them as it relates to weather and the universe. The Astronomy course will begin with an introduction to early Astronomy and progress through the thoughts and ideas which have led us to our current theories about the universe. The course aims to show the size and scope of the universe through a detailed exploration of how our Earth interacts with the sun and the moon as well as Earth’s place in our solar system, galaxy, and ultimately the known universe.

The Meteorology course aims to explain how the atmosphere interacts with earth’s surface to produce weather. In order to achieve this understanding, students will complete labs which require the manipulation of data related to fronts and air masses, as well as use real-life weather maps to record and analyze data. After gaining an understanding of air pressure and atmosphere/surface interactions, students will use their knowledge to predict weather. Note: This course does employ algebraic concepts in some units.

SENIOR ELECTIVE OPTION

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Service Learning	925	.5	✓	✓	✓	✓	✓
Financial Literacy	416	.5		✓			
Physical Education 12	608	.5				✓	
Life-long Personal Communication Skills	055	.5	✓				
Online Course		.5	✓	✓	✓	✓	✓

Service Learning 925

Grade level: 12

Credits: 0.5 Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 45 days

Standard G.P.

Assessment based on journal entries and a mentor evaluation.

Service Learning offers students the opportunity to take active and meaningful roles in addressing the issues affecting their lives and their world. They will work closely with an assigned mentor either on or off-site. The Service Learning experience will provide students with the chance to explore and apply real-world skills, develop personal and social responsibility, encourage active citizenship, and reinforce the core civic values of honesty, respect, self-disciplines, healthy living, commitment to family and community and service to others.

Financial Literacy 416

Grade level: 12

Credits: 0.5 Credit

Career Pathways: *Business Information Management and Marketing*

Periods per Cycle: 6

Length of Course: 45 days

Standard G.P.

Financial Literacy is an elective course offered to seniors. Financial Literacy will expose students to financial responsibilities that they face as young adults. The material taught in this course will refresh and enhance what students learned in Personal Finance. Specific topics include: careers, paychecks and tax returns, checking and saving accounts, type of credit/mortgages, investment concepts, insurance and paying for college. This class will be “project-oriented” and there will be assignments online which will give students exposure to taking an online class. Seniors who are going to college, joining the military or entering the workforce will all use the content from this course.

Physical Education 12 608

Grade level: 12

Credits: 0.5 Credit

Career Pathways: *Human and Family Services*

Periods per Cycle: 6

Length of Course: 45 days

Standard G.P.

Grades based on class preparation, class participation, physical fitness testing, written and skill testing.

This course requires a combination of weight training, cardio respiratory activities, flexibility exercises, as well as team and individual sports to improve a student's overall fitness. This course focuses on physical fitness, improving social competencies and team-work. Students will engage in activities that will improve both health and skill-related elements of fitness. The primary goal of this course is to improve "personal fitness." Students will be taught information on how to set personal fitness goals and achieve them. Assessments will be based on quizzes, as well as student participation levels.

Life-long Personal Communication Skills 055

Grade level: 12

Credits: 0.5 Credit

Career Pathways: *Arts and Communication*

Periods per Cycle: 6

Length of Course: 45 days

Standard G.P.

Seniors will be exposed to a variety of tools and strategies that will help them find success as they prepare to enter the next phase of their adult lives. Students will be taught basic technique to help build attention and focus, increase self-regulation, improve empathy, reduce levels of stress and anxiety and engage in more meaningful communication with others. Cultivating these skills will benefit all seniors whether going to college, joining the military or entering the workforce. Throughout the semester students will be engaged in journaling, analysis exercises, teaching opportunities and small and large group discussions. They will take the tools they learn in this course and apply them to their lives outside of the classroom. The course will culminate in a project aligned with the student's specific area of interest.

Online Course

Grade level: 12

Credits: 0.5 Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 45 days

Standard G.P.

There is a pre-approved listing of online courses from which to choose. Please see your guidance counselor for online course selections and descriptions.

SOCIAL STUDIES/CITIZENSHIP

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
American Studies	702	1.0	✓	✓	✓	✓	✓
World Studies	703	1.0	✓	✓	✓	✓	✓
Civics & Government	710	1.0	✓	✓	✓	✓	✓
Psychology	720	1.0				✓	✓
Sociology	721	1.0				✓	✓
Military History	715	1.0				✓	
Contemporary Issues	735	1.0	✓			✓	
Local Studies	729	1.0	✓			✓	
AP United States History	706	1.0	✓	✓	✓	✓	✓
AP European History	730	1.0	✓	✓	✓	✓	✓
AP United States Government and Politics	734	1.0	✓	✓	✓	✓	✓

American Studies 702

Grade level: 9

Credits: 1 Social Studies/Citizenship Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This required Social Studies course will include the study of United States history from 1870 to the present. The goal of this course is to link historical events to an understanding of the social, political and economic development of the United States today.

World Studies 703

Grade level: 10

Credits: 1 Social Studies/Citizenship Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course will focus on the economic political and social systems in world cultures. The non-western cultures of China, Japan, India, the Middle East and Africa will be emphasized. Each culture's history and current situation will be studied.

Civics and Government 710

Grade level: 11

Credits: 1 Social Studies/Citizenship Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course provides insights to all levels of the American political system. Having a sound comprehension of the governments that affect our daily lives is critical to civic participation. The course will explore the fundamentals of economics, commonwealth government, municipal government and national government. It will examine in detail the principles, processes, and institutions through which this political system functions as well as the public policies that these institutions implement. The course is concerned with the nature of the American political system, its development over the past two hundred years and how it continues to function in present-day America.

Psychology 720

Grade level: 11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Health and Natural Resource Sciences and Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Psychology is the study of human behavior. Psychologists attempt to explain why people behave, feel and think as they do. This course would be valuable to anyone who plans to enter a “people” related field in the future. The course content will include: life stages, workings of the mind and body, learning processes, personality disorders and social interaction.

Sociology 721

Grade level: 11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Health and Natural Resource Sciences and Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course focuses on all components of sociology, such as culture, society, social classes, groups, family, religion, and sociological theory. In addition, contemporary social issues such as race relations, the elderly, gender roles, and social changes will be examined.

Military History 715

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

War is a social construct that has had a major influence on history. From the Egyptians to Alexander the Great to the British empire, entire civilizations have been created or crushed by war. Students who wish to truly understand world history, and in particular the history of western civilization can learn about the military aspect of society and its impact on global events. The social, political and economic repercussions of conflict on past and present generations of global citizens will be examined in this course.

Contemporary Issues 735

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication and Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course will focus on examining and understanding important current issues and events in the US and world. Topics may include current and recent historical events related to social media, communication, pop culture, government and politics, the economy, world affairs, science and technology, the environment, race, gender and class. Students in the class will be using and developing skills for research, discussion, Socratic seminar and debate.

Local Studies 729

Grade level: 10,11,12

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *Arts and Communication
and Human and Family Services*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course provides insights about the history of Lancaster County and Pennsylvania. The course will explore the different forms of material culture including and not limited to: tombstones, houses and churches, transportation, industry and power, agriculture and barns and food and entertainment. Examining in detail these categories of material culture over the period of history from 1700 to the present day will enhance the understanding and appreciation of our local heritage. The course is concerned with the nature of Lancaster County and Pennsylvania, its development over the past two hundred years and how it continues to evolve in today's rapidly changing world.

AP United States History 706

Grade level: 10,11,12 ***offered in 2023-2024**

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

Advanced Placement American History is a college level survey class designed for students with an interest in history and a desire to be challenged. Topics in American history from discovery to the present will be covered. The goal is to provide a college level course emphasizing reading, writing, research and class discussion. The course's intent is to prepare all students to take the Advanced Placement test in May. A college-level text and a variety of primary sources and supplementary materials will be used.

Students enrolled in AP course are expected to take the AP exam.

AP European History 730

Grade level: 11,12 ***offered in 2022-2023**

Credits: 1 Arts and Humanities or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

Advanced Placement European History is a college level survey course of western history, beginning with the Renaissance and Reformation and concluding in the present day. The focus will be on the cultural, economic, political and social developments that have had much influence on the world in which we live. The course is designed to develop a student's reading, writing and analytical skills by utilizing a wide variety of resources, including a college level textbook.

Students enrolled in AP courses are expected to take the AP exam.

AP United States Government and Politics 734

Grade level: 11,12

Credits: 1 Social Studies/Citizenship,
Arts and Humanities or Elective Credit

Career Pathways: *All 5 areas*

Period per Cycle: 6

Length of Course: 90 days

AP G.P.

AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behavior. They also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, they complete a political science research or applied civics project.

Students enrolled in AP course are expected to take the AP exam.

TECHNOLOGY EDUCATION

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Wood Technology	522	1.0			✓		
Product Design	553	1.0			✓		
Digital Electronics	563	1.0			✓		
PLTW Introduction to Engineering Design	534	1.0			✓		
PLTW Principles of Engineering	562	1.0			✓		
Digital Photography	548	1.0	✓				
Digital Design and Print Media	552	1.0	✓				
Energy, Power, & Transportation	523	1.0			✓		
Computer Aided Design and Drafting	533	1.0			✓		
Construction Technology	524	1.0			✓		
Manufacturing	527	1.0			✓		
Digital Film Making	550	1.0	✓				
TV Production I	538	1.0	✓				
TV Production II	541	1.0	✓				
TV Production III	546	1.0	✓				
TV Production IV	547	1.0	✓				
Welding and Metal Fabrication	564	1.0			✓		
Precision Machining with CNC	565	1.0			✓		

Wood Technology 522

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

*Students in the class will be responsible for paying a \$25 lab fee for their class materials.
Students will be required to purchase approved safety glasses for this class
which are available from the school.*

Wood technology is designed as an introduction to the Wood Lab. Students will learn in a hands on, project oriented classroom. Students will be introduced to the processes required to manufacture wood projects. Topics they will learn about will include proper use of hand tools, machine safety and setup, squaring rough stock, project layout and measuring, joint construction and assembly, and finishing of wood products. Each student will be completing several projects/activities throughout the semester. This will include designing and working on our CNC router.

Product Design 553

Grade level: 9, 10, 11, 12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Product Design is an introduction for students who would like to learn about design and product development. The curriculum includes studies in visualization, aesthetics, materials and processes, principles of design methodology, elements of art, product development, human factors, prototyping and model-making, freehand sketching, and presentation skills. In addition, students learn a methodology for encouraging the creative problem-solving process and the attainment of skills needed to express visual ideas with clarity in a peer review critique setting. Students will design and model various small products using a variety of tools and machines including CNC router, laser engraver, and 3D printers.

Digital Electronics 563

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Algebra I

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

From smartphones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

PLTW Introduction to Engineering Design 534

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Algebra I

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

Students dig deep into the engineering design process, applying math, science and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work.

PLTW Principles of Engineering 562

Grade level: 10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Algebra I and Introduction to Engineering Design

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

Through problems that engage and challenge, students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Digital Photography 548

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Arts and Communications*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Students in the class will be responsible for a \$25 lab fee for their class materials.

This course will introduce the student to the world of digital photography. It will provide the student with an in-depth understanding of the operation of digital cameras as well as the storage, retrieval and printing of digital images. Topics of study will include hardware needed for digital photography, basic camera controls, lenses, filters, exposure basics, metering light, finishing and mounting, “special techniques” in printing, lighting and photographic composition. Students will be introduced to Adobe Photoshop and Lightroom and other programs that lend themselves to various aspects of Digital Photography. Students will work on practical assignment and have the opportunity to have their best work submitted to the yearbook, school newspaper Cocalico school district digital signage and Cocalico TV Channel.

Digital Design and Print Media 552

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Arts and Communications*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This is a recommended course for Grade 9.

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

Students in this course will develop design skills that can be utilized in all areas of communications including social media, web design, digital signage and print media. This is an activity-based class that will explore the above topics in a hands-on environment. The class will incorporate the use of digital cameras, vector imaging, graphic manipulation, offset and screen printing. This course is computer based with an emphasis on the Adobe Suite of products. Students will explore hands on activities in desktop publishing that will then be used to print their images on paper, t-shirts and other materials along with electronic imaging, creating a basic web site and other types print media.

Energy, Power, & Transportation 523

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This is a recommended course for grade 9.

Students in the class will be responsible for paying a \$25 lab fee for their class materials.

Students will explore applications of energy and power conversion device and systems, along with the transportation of goods and services. The class will gain an insight into various modes of transportation and the use of energy through the study of basic electricity, the single cylinder engine, magnetic levitation, wind turbine design and flight principles.

Computer Aided Design and Drafting 533

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This is a recommended course for grade 9.

This course will concentrate in the development of skills in drafting and design associated with mechanical and architectural concepts. The content will be introduced through activities using sketching and computer-aided drafting techniques including 3D modeling with final output to 3D printers. Course content will include higher-level math skills, engineering geometry, multi-view drawings, pictorial representation, and working drawings. This Design and drafting-related problem-solving activities will be included throughout the course. The second half of this course will focus on the principles associated with residential design and construction. Upon completion of the course, the students will have drawn portions of a residential house plan including floor plans, foundation plan, elevations, schedules, plot plan, and construction details. The use of both sketching and a computer-aided drafting program will be utilized throughout the course. The development of models will be used to explore many of the phases of construction.

Construction Technology 524

Grade level: 9, 10, 11, 12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

A written final exam will be required for this course.

Construction Technology will teach students about residential construction along with major structures. The class will form their own construction team and cover topics related to construction materials, tools and processes. Students will work on various projects such as scaled models, sample wall sections, electrical wiring, home maintenance and will combine forces in the completion of constructions projects.

Manufacturing 527

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

*This is a recommended course for grade 9.
Students in the class will be responsible for paying a \$25 lab fee for their class materials.
Students will be required to purchase approved safety glasses for this class
which are available from the school.*

This course will allow the student the opportunity to learn the basic techniques of material processing to transform raw materials into usable products in a manufacturing setting. Topics of study will include various types of welding, machining and material processing of wood, metals and plastics. This class will form a company to organize, design and produce a product to sell to the general public to create a profit. Students will utilize various technology education labs to design, produce and market their product. This will be a hands-on course with subject matter from various areas of technology education being introduced.

Digital Film Making 550

Grade level: 9,10,11,12

Credits: 1 STEM or Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

*Students in the class will be responsible for paying a \$25 lab fee for their class materials.
Due to the nature of this course, students will be expected to put in extra time
on projects and activities after school.*

This hands-on film production course will allow students the opportunity to explore the field of film production. **The course will be based on storytelling.** Students will work on various length projects that will culminate on their own short film. Students are required to work collaboratively to produce their short film. Throughout the course, students will learn about the art of storytelling, editing techniques, unique camera work, audio creation and layering and lighting for location. This class will also watch portions of classic films to critique and dissect. Unique camera work, audio creation and layering and lighting for location. This class will also watch portions of classic films to critique and dissect.

TV Production I 538

Grade level: 9,10,11,12

Credits: 1 Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

*Students in the class will be responsible for paying a \$25 lab fee for their class materials.
Due to the nature of this course, students will be expected to put in extra time
on projects and activities after school.*

This course will explore the electronic media of television production. Students will have the opportunity to learn and work with the digital equipment in the TV Studio. Topics of exploration include the video camera and its operation, microphones, lighting, sound, and editing. Students will edit their projects using digital editing suite with Final Cut Pro software. Student projects will have the opportunity to air on one of the CHS-TV productions. Students in TV I will also have the opportunity to help produce a live CHS-TV show and learn the basics of the TV Studio control room.

TV Production II 541

Grade level: 9,10,11,12

Credits: 1 Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisites: TV Production I (Grade of B or better)

Students in the class will be responsible for a \$25 lab fee for their class materials.

Due to the nature of this course, students will be expected to put in extra time on projects and activities after school.

This second-level offering in TV Production will allow students the opportunity to explore advanced features of the TV Studio. Students in TV II will produce a CHS-TV news show. The content of this course will be geared towards on-location productions. This will include unique camera work, field work audio, directing for electronic news gathering, and lighting. Several computer applications, including Adobe Photoshop and Final Cut Pro, will be used in this class. Students will explore these programs in depth while producing packages for class productions.

TV Production III 546

Grade level: 10,11,12

Credits: 1 Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisites: TV Production II (Grade of B or better)

Students in the class will be responsible for a \$25 lab fee for their class materials.

Due to the nature of this course, students will be expected to put in extra time on projects and activities after school.

Students enrolled in this class will take a leadership role in assisting TV Production II class members with the production of the CHS-TV news show and the video news magazine, In Focus. Students will be able to design a contract in the “specialty” area they would like to learn more about in an in-depth fashion. All students in TV Production III will spend significant time learning the advanced features of final Cut Pro on the digital editing stations.

TV Production IV 547

Grade level: 10,11,12

Credits: 1 Elective Credit

Career Pathways: *Arts and Communication*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisites: TV Production III (Grade of B or better)

Students in the class will be responsible for a \$25 lab fee for their class materials.

Due to the nature of this course, students will be expected to put in extra time on projects and activities after school.

Students enrolled in this class will take a leadership role in assisting TV Production II class members with the production of the CHS-News Show and the video news magazine, In Focus. Students will be able to design a contract in the “specialty” area they would like to learn more about in an in-depth fashion. All students in TV Production IV will spend significant time learning the advanced features of Final Cut Pro on the digital editing stations.

Welding and Metal Fabrication 564

Grade level: 9,10,11,12

Credits: 1 Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

This course is an introduction to an exciting and lucrative career! Students will become familiar with CNC plasma cutting along with ARC, MIG and TIG welding. They will also learn the importance of measuring precisely, gain an understanding of metals of all types, grasp blue print reading, and work on fabricating and welding projects. Safety is a priority in this class and will be taken very seriously. Whether a student is interested in metal art, engineering, or project construction, this class will provide an excellent introduction to the world of welding and metal fabrication.

Precision Machining with CNC 565

Grade level: 9,10,11,12

Credits: 1 Elective Credit

Career Pathways: *Engineering/Industrial and Technological Sciences*

Period per Cycle: 6

Length of Course: 90 days

Standard G.P.

In this course, students are introduced to using computer numerical controlled (CNC) machines to shape metal into precision parts. They use their knowledge of metals and their skill with the tools to manufacture products that meet precise specifications. Precision machinists develop patience while inventing, designing, and manufacturing the tools and components for a wide-range of production needs. Through hands-on activities, students will utilize advanced computer-controlled technology to create steel, aluminum, and plastic components. Students will use the same equipment and techniques as industry leaders. A career in precision machining is in high demand with the potential for high starting wages.

WORLD LANGUAGE

Course	Course #	Credits	AC	BIMM	EITS	HFS	HNRS
Spanish I	301	1.0	✓	✓	✓	✓	✓
Spanish II	302	1.0	✓	✓	✓	✓	✓
Spanish III	303	1.0	✓	✓	✓	✓	✓
Spanish IV	304	1.0	✓	✓	✓	✓	✓
AP Spanish and Culture	316	1.0	✓	✓	✓	✓	✓
Spanish for Careers	318	1.0	✓	✓	✓	✓	✓
German I	305	1.0	✓	✓	✓	✓	✓
German II	306	1.0	✓	✓	✓	✓	✓
German III	307	1.0	✓	✓	✓	✓	✓
German IV	308	1.0	✓	✓	✓	✓	✓
AP German and Culture	317	1.0	✓	✓	✓	✓	✓

Spanish I 301

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: All 5 areas

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

A final written and oral exam, which includes a listening, speaking and reading component, is a requirement of this course.

Spanish I will focus on development of the four basic skills of a language: listening, speaking reading and writing. Students will be able to describe themselves and others in the Spanish language. Students are given insights into Hispanic culture to increase their awareness of cultural diversity and the various Hispanic customs that exist through Spain, Mexico and Latin America.

Completion of all levels is strongly recommended for college admission and for students entering the field of health services, criminal justice, social service, education, business, law, tourism, media, military service and government.

Spanish II 302

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: All 5 areas

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: Spanish I

A final written and oral exam, which includes a listening, speaking and reading component is a requirement of this course.

Spanish II continues to develop the four language skills and concentrates on oral proficiency and further grammar development. Students work in past tense and further enhance their understanding of Hispanic culture. Students continue to utilize the present tense and begin to express events using the past tense.

Completion of all levels is strongly recommended for college admission and for students entering the fields of health services, criminal justice, social service, education, business, law tourism, media, military service, and government.

Spanish III 303

Grade level: 10,11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: All 5 areas

Periods per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: Spanish II

A final written and oral exam, which includes a listening, speaking and reading component, is a requirement of this course.

Spanish III further develops the four language skills. The course includes conversational activities and additional grammar, as well as an overview of Hispanic art, culture, and literature. Spanish will increasingly be used for instruction, and students are encouraged to respond in Spanish. Completion of all levels is strongly recommended for college admission and for students entering the field of health services, criminal justice, social services, education, business, law, tourism, media, military service, and government.

Spanish IV 304

Grade level: 11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: All 5 areas

Periods per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: Spanish III

A final written and oral exam, which includes a listening, speaking and reading component, is a requirement of this course.

Spanish IV refines and enhances the four language skills. Students' ability to understand and communicate in Spanish will be tested and challenged through daily instruction held almost exclusively in the Spanish language. The course focuses on conversational activities and includes additional grammar, as well as deeper examination of Hispanic art, culture, literature, and geography. Completion of all levels is strongly recommended for college admission and for students entering the field of health services, criminal justice, social services, education, business, law, tourism, media, military service, and government.

AP Spanish Language & Culture 316

Grade level: 11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: All 5 areas

Periods per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisite: Spanish IV (Grade of B or better or teacher recommendation)

The AP Spanish Language and Culture course is a rigorous course taught exclusively in Spanish that requires students to improve their proficiency across the three modes of communication. The course focuses on the integration of authentic resources including on-line print, audio, and audiovisual resources, as well as traditional print resources that include literature, essays, ad, magazine and newspaper articles with the goal of providing a rich, diverse learning experience. Students communicate using rich, advanced vocabulary and linguistic structures as they build proficiency in all modes of communication toward the pre-advanced level. Students are expected to complete review work prior to the course and attend three review sessions in the spring semester to prepare for the AP exam. Students enrolling in this course should be prepared to devote additional time to study outside of class.

Students enrolled in AP courses are expected to take the AP exam.

Spanish for Careers 318

Grade level: 11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: Spanish IV

The Spanish for Careers course will improve fluency and fine tune students' Spanish skills delivered in Spanish I through Spanish IV with an individual focus on their desired future career path. This course will prepare students to get hired easily and to get promoted quickly in their desired career. Students will build their vocabulary, further develop their understanding of cultural norms to improve their interpersonal skills and enhance their communication skills while building cultural competency. Mock interviews, a brief internship, and resume writing are just a few of the useful experiences included in this course.

German I 305

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: *All 5 areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

A final written and oral exam, which includes a listening, speaking and reading component, is a requirement of this course.

German I will focus on development of the four basic skills of a language: listening, speaking, reading, and writing. Students will be able to describe themselves and others, and express likes and dislikes in the German language. Students are given insights into Germanic culture to increase their awareness of cultural diversity and customs throughout regions of Germany, Switzerland, and Austria. Germany has Europe's strongest economy and has companies both in the United States and abroad, thus learning German is a useful skill.

The complete four-level program is strongly recommended for college-bound students entering the field of international business and law, the sciences, tourism, military service and international relations.

German II 306

Grade level: 9,10,11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: *All 5 Areas*

Periods per Cycle: 6

Length of Course: 90 days

Standard G.P.

Prerequisite: German I

A final written and oral exam, which includes a listening, speaking and reading component, is a requirement of this course.

German II will expand the development of the four basic skills of a language and concentrate on oral proficiency and further grammar development. Students will continue to develop their ability to speak and write in German while simultaneously enhancing their understanding of the German culture.

The complete four-level program is strongly recommended for college-bound students entering the field of international business and law, the sciences, tourism, military service, and international relations.

German III 307

Grade level: 10,11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: *All 5 Areas*

Periods Per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: German II

A final written and oral exam, which includes a listening, speaking and reading component, is a requirement of this course.

German III further develops the four language skills, as well as, a better understanding of German culture. German will increasingly be used for instruction, and students are encouraged to respond in German.

The complete four-level program is strongly recommended for college-bound students entering the fields of international business and law, the sciences, tourism, military service, international relations, and education.

German IV 308

Grade level: 11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: *All 5 Areas*

Periods Per Cycle: 6

Length of Course: 90 days

Honors G.P.

Prerequisite: German III

A final written and oral exam, which includes a listening, speaking and reading component, is a requirement of this course.

German IV refines and enhances the four language skills. Students ability to understand and communicate in German will be tested and challenged through daily instruction held almost exclusively in the German language. The course focuses on conversational activities and includes additional grammar, as well as an overview of Germanic culture, literature, and geography.

The complete four-level program is strongly recommended for college-bound students entering the fields of international business and law, the sciences, tourism, military service, international relations, and education.

AP German Language & Culture 317

Grade level: 11,12

Credits: 1 Arts and Humanities Credit

Career Pathways: *All 5 Areas*

Periods Per Cycle: 6

Length of Course: 90 days

AP G.P.

Prerequisite: German IV (Grade of B or better or teacher recommendation)

The AP German Language and Culture course emphasizes communication (understanding and being understood by others) by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP German Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in German.

The AP German Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of cultural products (e.g., tools, books, music, laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions).

Students enrolled in AP courses are expected to take the AP exam.

understanding career pathways[®]

An Introduction

Lancaster County's 16 school districts have adopted a common career preparation program called Career Pathways, which is based on the PA State Academic Standards for Career Education and Work. These standards identify the necessary academics and technical requirements for careers of the 21st Century. The Career Pathways model is designed to help students and parents plan for careers using four main categories of careers/jobs called "Pathways," which are based on national employment trends. These trends are often referred to as "career clusters."

The goal of Career Pathways is for all students to develop a vital and meaningful education and career plan beyond High School graduation and to have a seamless transition to college and career success. This plan may include work based training, skill certification, military, associate's, bachelor's or graduate degree.

What are Career Pathways

Think of the icons below as 4 different roads. Each one will bring you a variety of career possibilities that relate to that particular category. By choosing a specific Pathway below, you can take advantage of all the opportunities that best fit your interests, abilities and experiences. This decision not only accelerates the process of developing your career path, but it also prepares you for any number of jobs within that specific Pathway. And remember: If you don't like the Pathway you have chosen, you can change it!



ARTS & COMMUNICATIONS



**BUSINESS, FINANCE and
INFORMATION TECHNOLOGY**



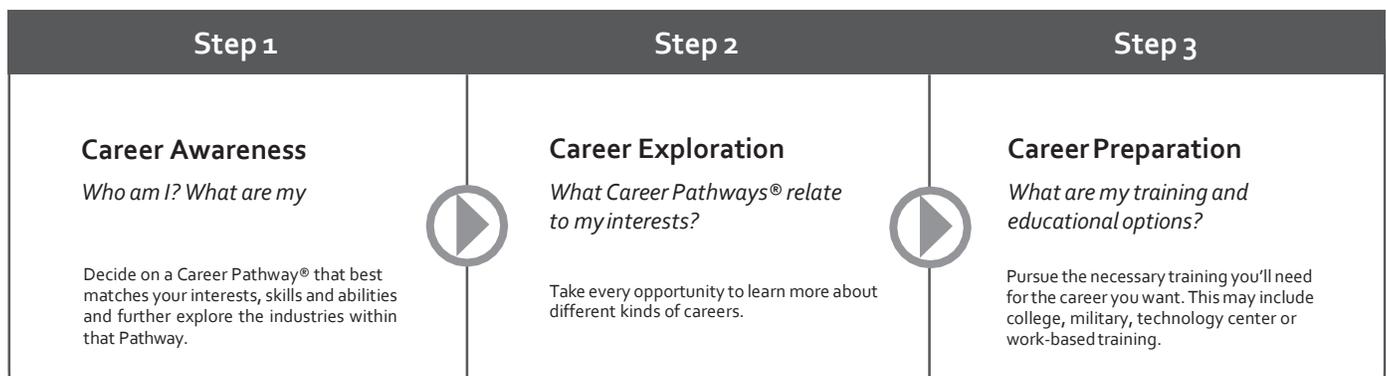
ENGINEERING & INDUSTRIAL TECHNOLOGY



SCIENCE & HEALTH

How do I use them?

Finding the right career can be as simple as this 3 STEP PROCESS below:





Pathway Overview

Careers in this Pathway are related to the visual and performing arts and design, journalism and broadcasting, audio and video technology, printing technology, telecommunications.

PA Dept. of Education Career Clusters: Arts, Audio-Visual Technology Communications

The US. Department of Education has designated 16 clusters of careers that form the basis for Career Pathway systems in Pennsylvania. Each cluster represents a group of related industries and occupations in the American economy.

		what you'll need
interests	skills	experiences
English language fine arts communications & media computer & electronics music social sciences foreign languages	idea generation writing originality/creativity influencing others speech clarity working independently deductive reasoning	art/music/dance writing acting/entertaining others directing/conducting design/fashion broadcasting/public speaking computers/graphic technology
		where you'll go
entry level	skilled/technical	professional
Acting Career Public opinion researcher Videographer Desktop Publisher *Mechanical Draftsperson *Camera Operators: TV, Video Retail Salesperson Press Operators	Artist in Residence Music and Marketing Fabric/Textile Designer Photographer Printing Technology *Barber *Advertising Sales Agents *Interpreters & Translators	Art Historian Economics *Graphic Designers Web Designer Writer Prepress Technician Industrial Packaging Designer Studio Musician

* Represents a 2017 High Priority Occupation for Lancaster County Workforce Investment Area.



business, finance & information technology

Pathway Overview

Careers in this Pathway are related to the business environment and include entrepreneurial careers, sales, marketing, computer and information systems, finance, accounting, human resources, economics, and business management.

PA Dept. of Education Career Clusters:
Business, Management & Administration; Finance;
Information Technology; Marketing, Sales and
Service

The US. Department of Education has designated 16 clusters of careers that form the basis for Career Pathway systems in Pennsylvania. Each cluster represents a group of related industries and occupations in the American economy.

what you'll need		
interests	skills	experiences
business environment office management computers & technology buying & merchandising record keeping owning your own business sales/persuading others designing systems leadership and authority Making a profit	influence others electronic information manage people & projects give speeches & presentations debate ideas explain electronic operations generate computer designs keep records collect & manage data use computers & technology	communicate effectively organize a project working with technology investing e-commerce & sales owning a business presentations to a group buying & merchandising hospitality & tourism work with the public
where you'll go		
entry level	skilled/technical	professional
*Advertising Sales Agents *Accounts Payable/Receivable *Claims Adjusters Auto Sales Bank Clerk/Teller Entrepreneur Management Trainee Military supply *Payroll Clerk Receptionist *Truck Drivers Retail Sales	Accounting clerk *Administrative Assistant Buyer Corporate Trainer Entrepreneur Marketing researcher Merchandising Manager Purchasing Manager *Real Estate Agent Tax Planner Wholesale Sales *Sales Representatives	Accountant/Controller Actuary *Chief Executive Officer Auditor Consultant Economist Entrepreneur *Financial Planner *Sales Manager Operations Manager Stockbroker Underwriter

* Represents a 2017 High Priority Occupation for Lancaster County Workforce Investment Area.



engineering, & industrial technology

Pathway Overview

Careers in this Pathway are related to the technologies necessary to design, develop, install and maintain physical systems; agriculture, the environment and natural resources; scientific research and development services; and planning, management, and movement of people, materials and goods from one point to another.

PA Dept. of Education Career Clusters:

Agriculture, Food & Natural Resources; Architecture & Construction; Manufacturing; Science, Technology, Engineering & Mathematics; Transportation, Distribution and Logistics

The US. Department of Education has designated 16 clusters of careers that form the basis for Career Pathway systems in Pennsylvania. Each cluster represents a group of related industries and occupations in the American economy.

		what you'll need
interests	skills	experiences
<ul style="list-style-type: none"> applied math building with your hands working on a team working in a laboratory setting working with electronics operating machinery & tools designing models & prototypes geography producing tangible result 	<ul style="list-style-type: none"> design & create products design/repair engines improve things to work better think in a logical sequence visualize three dimensionally design buildings follow a schematic design follow instructions precisely 	<ul style="list-style-type: none"> computer & electronics operating vehicles building & construction farming mechanical design model building problem solving assemble & repair items working outdoors
		where you'll go
entry level	skilled/technical	professional
<ul style="list-style-type: none"> Apprenticeship Body Repair *Machinist Automotive Detailer *Construction Laborer Highway Maintenance Packer/Packager *Painter rrail Worker Repair Technician 	<ul style="list-style-type: none"> Automotive Technology Aviation Maintenance Technology Building Construction Technology *Electro-Mechanical Technicians Nanofabrication Manufacturing Home and Building Remodeling Collision Repair Technology Environmental Specialist Surveying Metals Fabrication *Architecture and Civil Drafters 	<ul style="list-style-type: none"> Aerospace Agriculture Sciences Agronomy Animal Science *Environmental Engineering Civil Engineering Horticulture *Industrial Engineering Mathematics Physics *Biochemists and Biophysicists

* Represents a 2017 High Priority Occupation for Lancaster County Workforce Investment Area.



Pathway Overview

Careers in this Pathway are related to the promotion of health and treatment of disease and disorders; economic, political, and social systems; and teaching and training children and adults the information and skills needed to ensure a productive career and life.

PA Dept. of Education Career Clusters:
Education & Training; Health Science; Hospitality & Tourism; Human Services, Law, Public Safety & Security; Government & Public Administration

The US. Department of Education has designated 16 clusters of careers that form the basis for Career Pathway systems in Pennsylvania. Each cluster represents a group of related industries and occupations in the American economy.

		what you'll need
interests	skills	experiences
caring for people or animals science and medicine helping others observing & recording facts researching information working on a team family and Social Services teaching others law	oral expression active listening speech clarity leadership social perceptiveness fluency of ideas inductive & deductive reasoning manual dexterity follow instructions precisely analyze collected data	volunteer work manage finances prioritize obligations pay attention to details remain fair and just relate to different people make learning fun for others cut & style hair organize travel plans
		Where you'll go
entry level	skilled/technical	professional
*Health Care Support Workers Camp Counselor Custodian Food Service Worker *Medical Transcriptionist Library Aide Model Public Radio Dispatcher Security Guard Teacher Aide	*Biotechnology Cardiovascular Technology Child Development Culinary Arts Dental Hygiene Medical Assisting *Medical Laboratory Technician *Veterinary Technologists *Child Care Worker Surgical Technology Legal Secretary	*Secondary Education Hospitality/Management Medical Technologist Pre-Medicine Pre-Dentistry Pre-Pharmacy *Registered Nursing *Social Work Public Relations *Lawyer

*Represents a 2017 High Priority Occupation for Lancaster County Workforce Investment Area.

what's hot here at home.

Check out the top 40 jobs in Lancaster County

Career awareness and exploration include an understanding of changing job markets. Although you may not choose a high priority occupation, labor market data is an important part of career planning as you decide where to invest your time, effort, and money. Perhaps your interests, skills and experiences will lead you to one of the 40 hot jobs in Lancaster County.

(List compiled by the Workforce Investment Board of Lancaster County.)



*Students interested in Arts & Communication will find many avenues for their talents and interests in the workplace. Although there are currently no "hot jobs" in Lancaster County in this Pathway, the job market is always changing. Students interested in the arts may discover that their skills are valuable and applicable to careers in other Pathways. **Students should never let job market trends be their only consideration when choosing a career!***

Sales representatives, wholesale and manufacturing, except technical and scientific products
Accountants and auditors
Executive secretaries and administrative assistants
Bookkeeping, accounting, and auditing clerks
Secretaries, except legal, medical, and executive
Sales representatives, wholesale and manufacturing, technical and scientific products
Computer support specialists
Truck drivers, heavy and tractor-trailer

Carpenters
Printing machine operators
Industrial machinery mechanics
Packaging and filling machine operators and tenders
Machinists
Welders, cutters, solderers, and brazers
Brickmasons and blockmasons
Sheet metal workers
Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic
Industrial engineers
Operating engineers and other construction equipment operators
Painters, construction and maintenance
Bus and truck mechanics and diesel engine specialists
Team assemblers
Industrial truck and tractor operators
Truck drivers, light or delivery services
Electricians
Maintenance and repair workers, general
First-line supervisors/managers of production and operating workers
Plumbers, pipefitters, and steamfitters
Heating, air conditioning, and refrigeration mechanics and installers

Registered nurses
Elementary school teachers, except special education
Police and sheriff's patrol officers
Dental assistants
Physical therapists
Pharmacists
Medical and clinical laboratory technicians
Licensed practical and licensed vocational nurses
Food batchmakers
Medical records and health information technicians
Radiologic technologists and technicians

arts & communication

business & finance

engineering, science & technology

health & social services

Lancaster county career & technology center programs of study (POS)

The Carl D. Perkins Career and Technical Education Act of 2006 requires the development and implementation of career and technical Programs of Study (POS). The Lancaster County Career & Technology Center, under the Act, is now required to offer the relevant academic and technical courses as they relate to the POS. Programs of Study are very similar to, and build on, positive initiatives, such as Tech Prep, career pathways, career academies and career clusters, already underway in career and technical education in Pennsylvania.

Students participating in an approved state Program of Study (POS) must successfully complete the scope and sequence below, in order to be eligible for statewide articulations with post-secondary programs. For consideration in a Program of Study, students must complete an LCCTC application within the designated time period and the student's successful completion of POS secondary academic courses. These academic courses include:

- 4 Years of English Language Arts (4th yr at LCCTC);
- 3 years of math including Algebra I, Geometry, and other appropriate math courses;
- 3 years of science including Biology, Chemistry and Physics or Physical Science; and
- 3 years of social studies including US and World History, with attention given to civic learning.

"programs of study" secondary scope and sequence

Grade 9	Grade 10	Grade 11	Grade 12
Elective(s) Classes related to Career Interests	Elective(s) Classes related to Career Interests	Elective(s) Classes related to Career Interests	LCCTC Full Day Program
English English 9 CA	English English 10 CA	English English 11 CA or American Literature or British Literature or Dramatic Literature	English LCCTC Post-Secondary Public Speaking** **Required
Math Algebra I or Algebra II or Geometry	Math Algebra II or Geometry or Algebra III	Math Geometry or Algebra III or Precollege Math or Precalculus/Trigonometry or AP Statistics or Applied Calculus or AP Calculus	Math
Science Earth Science or Physical Science or Biology	Science Biology or Chemistry	Science Chemistry or Community Chemistry or Principles of Technology or Physics	Science HACC Dual Enrollment AH 105 Medical Term* 3 Cr. AH 140 Intro to Allied Health* 3 Cr. PA College of Health Sciences BIO 175 Anatomy & Phys I* 3 Cr. *Health Center Students Only
Social Studies American Studies	Social Studies World History	Social Studies Process of Democracy	Social Studies HACC Dual Enrollment PSY 101 General Psychology 3 Cr. SOC 201 Intro to Sociology 3 Cr. PA College of Health Sciences PSY 100 General Psychology* 3 Cr. *Health Center Students Only
<ul style="list-style-type: none"> • Career Pathways • Electronic Career Portfolio • Job Shadowing related to student's pathway • Career & Work Standards 	<ul style="list-style-type: none"> • Career Pathways • Electronic Career Portfolio • Job Shadowing related to student's pathway • Career & Work Standards 	<ul style="list-style-type: none"> • Career Pathways • Electronic Career Portfolio • Visits to LCCTC & Colleges • Career & Work Standards 	<ul style="list-style-type: none"> • Industry Credentials • Career & Work Standards • Co-Op/Clinical • CTC Portfolio • Articulation to Post-secondary • HACC College in the High School Courses

Lancaster county career & technology center program offerings

Full day Programs

Brownstown Campus	Mount Joy Campus	Willow Street Campus
<p>Construction Technologies Center Architectural CAD – Design Cabinet Making & Wood Technology Electrical Construction Technology Heavy Equipment Operation & Basic Maintenance HVAC/R Painting & Interior Finishes Plumbing</p> <p>Information Technology Center Computer Systems Technology</p> <p>Visual Communications Center Commercial Art Digital Design/Print Media Interactive Media & Web Design Photography & Digital Imaging</p>	<p>Advanced Manufacturing Center Electro-Mechanical Engineering Technology Metals Fabrication Welding Technology Precision Machining & Computer-Aided Manufacturing</p> <p>Construction Technologies Center Carpentry Technology</p> <p>Consumer Services Center Early Childhood Education</p> <p>Culinary Arts Center Baking & Pastry Arts Culinary Arts/Chef Hospitality & Business Management</p> <p>Protective Services Center (at the Lancaster County Public Safety Training Center) Protective Services Academy</p>	<p>Agriscience Center Animal Production Science & Technology Veterinary Assistant</p> <p>Health Care Center Patient Care Technician Dental Assistant Medical Assistant Nursing Assistant/Home Health Aide</p> <p>Transportation Technologies Center Automotive Technology Collision Repair Diesel Equipment Technology Power Sport Technology</p> <p>**NEW** Advanced Manufacturing Welding Technology (3-year program) ½ day AM or PM</p>
Part Day Programs		
<p>Grades 10 & 11 Intro to Construction Careers Intro to Culinary Careers Intro to Health Careers Intro to Manufacturing Careers Intro to Transportation Careers Intro to Visual Communication Careers</p>	<p>Senior Only Advanced Health Careers Grades 10 & 11 Intro to Construction Careers Intro to Culinary Careers Intro to Health Careers Intro to Manufacturing Careers Intro to Transportation Careers</p>	<p>Grades 10 & 11 Intro to Construction Careers Intro to Culinary Careers Intro to Health Careers Intro to Manufacturing Careers Intro to Transportation Careers Intro to Visual Communication Careers</p>

General Information:

Full Day Programs

High school students spend the day at one of the three Lancaster County Career & Technology Centers, Brownstown, Mount Joy or Willow Street Campus. Students participate in a comprehensive technical or career-oriented program. The full-day program allows more usable time for instruction and enables students to gain insight into daily work patterns. In full-day programs an LCCTC student may earn college credits toward an associate degree at two year colleges. Through partnerships with area colleges, LCCTC provides a variety of dual enrollment courses. The LCCTC also has articulation agreements with 2-year colleges and technical schools. Dual enrollment and articulation offer college-level segments that give students an additional head start toward their future career and life-long learning.

Part Day Programs

Part day programs enable college bound seniors and students in grades 10 or 11 the opportunity to explore different aspects of a career field. The senior part day programs enable students to explore a career area for a few hours during each school day. Since the programs meet for only a part of a day, students can gain technical skills at LCCTC while meeting academic requirements for college at their sending schools. Since the programs meet for only a part of a day, students can gain technical skills at LCCTC while meeting academic requirements for college at their sending schools. The 11th grade programs allow students to explore a variety of careers within an occupational cluster and are designed for students who plan to apply for one of the full-time Lancaster County Career & Technology Programs during their senior year.

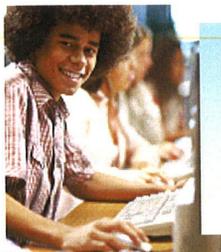
More information about Lancaster County Career & Technology and its programs can be found at www.lancasterctc.edu. For enrollment and application information, please contact your school counselor.

Lancaster county career & technology center dual enrollment program



Students Occupationally and Academically Ready

www.education.state.pa.us



**SOAR programs of study
prepare today's student for
tomorrow's high demand
and high wage careers**

SOAR is built on programs of study (POS) that incorporate secondary and postsecondary education elements and include coherent and rigorous academic and technical content aligned with Pennsylvania's challenging academic standards.

SOAR Agreement Articulation for advanced credit transfer is made possible when Perkins-allocated postsecondary institutions and Pennsylvania secondary schools offering SOAR programs agree to the terms and conditions stated in the Perkins Statewide Articulation Agreement.

SOAR Mission

The mission of SOAR is to prepare students for college and careers in a diverse, high-performing workforce.

SOAR Benefits

- Saving Money on College Tuition
- Saving Time by Shortening College Attendance
- Getting on the Right Career Pathway
- Entering the Job Market Ready
- Getting a Consistent Education

SOAR Articulation

SOAR credits are accepted at higher education institutions.

Website Navigation

- **Background**
Policy information on programs of study
- **Framework**
Templates and crosswalks to implement programs of study
- **Articulation**
Information relating to statewide articulation agreements

Learn More About SOAR

- **Programs of Study (POS)**
- **Planning Your Career**
- **Qualifying for SOAR College Credit**
- **Postsecondary SOAR Partners**

Go to CollegeTransfer.net to see how SOAR programs are accepted at higher education institutions



Get The Credit You Have Already Earned



For further information contact:
Bureau of Career and Technical Education
www.education.state.pa.us





Advanced Manufacturing Center

Electro-Mechanical Engineering Technology

The Electro-Mechanical Engineering program is designed as a pre-engineering program with an industry driven curriculum developed by leaders in the field. This program combines mechanics, control, electronic and electrical engineering, computer science, and systems design to create useful products. Examples of Electro-Mechanical systems include robots, digitally-controlled combustion engines, and machine tools with self-adaptive tools, contact-free magnetic bearings, and automated guided vehicles. In such systems, software has become an integral part of the product itself, an actual "machine element" necessary for proper function and operation. The Electro-Mechanical Engineering program includes an innovative curriculum. Students will gain knowledge and skills in: blueprint reading, mechanics, pneumatics, hydraulics, electricity, electronics, motors, motor control, programmable logic controls, robotics and motion control, process control instrumentation, and computer integrated manufacturing.

Metals Fabrication

This program teaches skills necessary for construction of metal roofing, siding, spouting, welding application, and the layout, fabrication and installation of heating, ventilation and air conditioning (HVAC) ductwork along with other custom applications used in manufacturing and construction fields. In addition to lab work, sheet metal students create HVAC ductwork and flashing work for the student-built house project. The program is nationally certified by the National Center for Construction Education and Research (NCCER) which is recognized by the Associated Builders and Contractors (ABC). Students learn how to set up and operate major fabricating machines, such as shears, brakes, presses, and forming rolls. These machines cut, bend, form or strengthen materials. Sheet metal jobs may require considerable bending, lifting, standing and squatting. Workers need good hand-eye coordination, manual dexterity and measurement skills, plus the ability to visualize three dimensional projects.

Precision Machining & Computer Aided Manufacturing

Every machine needs the skilled hand of a good operator. In the metal fabrication industry, you might find yourself working with a press brake to cut large sheets of metal to size before they go into the production line. You can operate a rolling machine to transform flat material into a specific curved configuration or angle roll the metal. Shearers cut material into specified shapes. The operator controls the process and makes sure that the work is up to company standards. The program will prepare students in the use of metal working, CNC machining and areas of welding for employment and post-secondary technical training.

Welding Technology

Welders apply intense heat to metal pieces to join, melt and fuse them to form a permanent bond. Students in the program learn the techniques of Oxyfuel, Arc, Mig and Tig welding processes necessary for a variety of construction and repair projects such as building bridges, automobiles and other manufactured products. The Welding Technology program is nationally accredited by the American Welding Society (AWS/SENSE) and introduces students to both welding and cutting. Welders and cutters need manual dexterity, strength to lift heavy objects, measurement skills, good eyesight and hand-eye coordination. They should be able to concentrate on detailed work for long periods and be able to bend, stoop and work in awkward positions.



Agriscience Center



Animal Production Science and Technology

This program introduces students to the exciting and dynamic Agriscience industry while preparing them with the knowledge, hands-on training, and technical skills to successfully enter the career ladder in production animal science. The program covers topics including anatomy and physiology, reproduction, veterinary care, handling and restraint, nutrition, agriculture law compliance, biosecurity, genetics, and laboratory procedures. Students in this program will have the opportunity to do both theory in the classroom and hands-on education in the lab and on curriculum trips. Students will be exposed to cows, horses, sheep, goats, alpacas, and poultry. There is a demand for skilled workers with a strong work ethic. Graduates will have employment options in the expanding and diverse field of large animal sciences.

Veterinary Assistant

The program combines classroom theory and laboratory experience on topics including small animal veterinary care, surgical assisting, laboratory testing, cleaning and feeding techniques. A career as a Veterinary Assistant encompasses all parts of veterinary medicine and assists Veterinary Technicians and Veterinarians in the care of animals. Common duties would include animal restraint, receptionist tasks, surgical assisting, setting up for laboratory procedures, grooming, exercising animals and cleaning. Students learn hands on skills with dogs and cats. Graduates could obtain employment in veterinary hospitals, animal training facilities, boarding kennels, grooming parlors or any business that houses or cares for animals. This program has an affiliation with the Lancaster Humane League and they perform low cost spay and neuter surgeries for the public once a week. This is the only program in the state that has students practicing surgical assisting tasks on a weekly basis. The demand for trained veterinary assistants has steadily increased over the past decade and this growth is expected to continue.



Architectural CAD – Design

The Architectural CAD–Design program offers a foundation of basic CAD (Computer-Aided Drafting) skills and knowledge, preparing students to attend a two or four-year institution of higher learning or to begin a career as an entry level drafter and/or CAD operator. Students learn techniques through a self-paced program of instruction that includes instruction in AutoCAD software and other architectural concepts. Architectural draftspersons prepare accurate architectural working plans, cross-sections and details for engineering drawings. They may be required to make mathematical calculations, and to estimate both the quantity and cost of materials needed for a project. The program content consists of detailed instruction in basic house design, room planning, floor plans, elevations and preparation of working drawings and details.

Cabinet Making and Wood Technology

The Cabinet Making and Wood technology program provides skill training in the manufacturing of custom furniture, cabinetry and millwork. Student will operate state-of-the-art industrial machinery, computer-controlled equipment, hand and power tools as part of this statewide Program of Study. In addition, students may earn the opportunity to work with skilled workforce veterans in the field in one of the many robust local operations. Students earn credentials in NCCER, as well as OSHA.

Electrical Construction Technology

The Electrical Construction Technology program is recognized by the Associated Builders and Contractors (ABC) and taught by a certified National Center for Construction Education and Research (NCCER) instructor. The program prepares individuals for employment in today's residential, commercial and industrial electrical industries. Instruction includes electrical principles and theory, residential and commercial wiring, electrical maintenance, basic motor control systems and transformers. Electricians install, connect, test and maintain electrical systems for a variety of purposes. Electricians follow the requirements of the National Electrical Code (NEC) specifications and procedures. Students learn these guidelines and how to navigate the NEC. Excellent reading and math skills are necessary, as well as good eyesight with normal color vision to distinguish color codes on wires.

HVAC/R

From furnaces to refrigeration units, systems that control heating, ventilation, air conditioning and refrigeration are important components of today's residential, commercial and industrial buildings. The HVAC/R program prepares students to install, repair and maintain this equipment. The program is nationally certified by HVAC Excellence and by the National Center for Construction Education and Research (NCCER), and is recognized by the Associated Builders and Contractors (ABC). Curriculum studies include: HVAC equipment line voltage circuits, 24-volt control circuits, electric schematics, air distribution and duct work, air conditioning, heat pumps, electric heat, gas heat, oil heat, hydronics and blueprint reading. Lab includes basic HVAC industry entry level skills of the following: electric circuits, soldering, brazing, black iron piping, sst piping, sheet metal duct, basic fiberglass duct, air conditioning, heat pumps, gas furnaces, oil furnaces, boilers. Employees in this field need a strong mechanical aptitude, and solid reading and math skills are needed to understand technical manuals.

Painting & Interior Finishes

This program teaches the basics of residential, commercial and industrial painting and flooring. Lessons include fundamentals of color theory, using tools, estimating material amounts, using scaffolding and ladders, reading blueprints. The program is certified by the National Center for Construction Education and Research (NCCER) and is recognized by the Associated Builders and Contractors (ABC). The curriculum covers various painting/finishing techniques including exterior and interior painting, wood finishing and spray painting. Instruction in wall covering installation includes preparing drywall and hanging wallpaper around doors, windows, inside and outside corners, and archways. Students learn how to apply finishes to both antique and new furniture. Flooring lessons include the installation of ceramic tile and vinyl. Students use a wet saw, tile cutter and trowels to prepare and lay ceramic tile for floors, countertops, backsplash, tub surrounds and shower stalls. Work in this field requires bending, kneeling, crawling, working on ladders and the flexibility to maneuver in confined areas.

Plumbing

The high-paying field of plumbing involves the installation and repair of water, drainage, waste disposal and gas systems in residential, commercial and industrial buildings. Plumbers also install fixtures, such as bathtubs, sinks and appliances including dishwashers and water heaters. The Plumbing program is certified by the National Center for Construction Education and Research (NCCER) and recognized by the Associated Builders and Contractors (ABC). The program covers blueprint reading, residential systems, fixture and equipment installation, system maintenance, repair and troubleshooting. Other areas include plumbing rough-in, PVC and metal piping, water heater service and system installation, system performance, estimations, soldering, drain line work and using trade tools and equipment.

Carpentry Technology



Our Residential Carpentry class encompasses a wide variety of skills necessary for employment as a Carpenter Apprentice. With an emphasis on personal safety, students are trained to read a blueprint, make precise measurements, estimate materials and do rough framing. They will also learn to use power tools, do exterior and interior finishing, concrete forming, roof framing, hardwood floor installation and stair construction just to name a few. Seniors are given the opportunity to apply their hands-on knowledge at an off-campus job site where, under careful supervision, they will participate in residential renovation and construction using the latest green technology. On completion of projects, students are asked to focus on the accuracy of their work. Our program is recognized by the Associated Builders and Contractors (ABC) and certified by the National Center for Construction Education and Research (NCCER).



Consumer Services Center

Early Childhood Education



This program is designed to train and prepare students for employment in the early learning field and provides the foundation for study in higher education. Early Childhood students receive hands-on experiences at the state-of-the-art Early Learning Center located on the Mount Joy campus, at the on-site Head Start program, and at a local elementary school. A graduate of this program who meets the requirements can qualify as an assistant group supervisor in Early Learning centers throughout Pennsylvania. In addition, students can prepare for the nationally recognized Child Development Associate credential. The students study all phases of child development: physical, social, emotional, and intellectual. Instruction is provided in health, safety, development, learning environments, guidance, classroom management, and observation and learning activities. This program's curriculum is aligned with several college courses at local post-secondary schools. This allows students to earn college credits towards degrees in related occupations, such as: Elementary Education, Early Childhood Education, and Human Development and Family Studies.



Culinary Arts Center

Baking and Pastry Arts



The Baking and Pastry Arts program is equipped with the same state-of-the-art tools and machines used in industry settings. The program teaches the functions of ingredients in products, recipe conversions, sanitation, equipment safety and proper food handling. Students gain experience by preparing desserts, pastries and breads, which are sold or served in the Culinary Arts Center restaurant and store. Some of these products include tortes, flans, chocolate specialties, Danish, puff pastries, pies, mousses, specialty cookies, sauces, custards, puddings, icings and a wide variety of both breads and decorated cakes.

Culinary Arts/Chef



In the Culinary Arts/Chef program, students learn how to prepare soups, sauces, meat entrees, vegetable dishes, salads and dressings as well as herb and spice identification. Students prepare menu items ranging from local favorites to classical and international cuisine. Other areas covered include fresh pasta preparation, fabrication of beef, pork and poultry, seafood identification and preparation, appetizers, desserts, plate presentation, garnishing, beverage creation, and restaurant service. Course work also includes purchasing, inventory, menu planning, nutrition, recipe costing and customer service. A major emphasis is placed on sanitation and use and care of kitchen equipment. A pleasant attitude and neat appearance are important when dealing with customers. Individuals need stamina to stand for long periods of time, excellent hand-eye coordination and a keen sense of taste and smell. Students will participate in a variety of serving techniques ranging from beverage service to in room dining to fine dining. An array of customer service skills and techniques will also be evaluated and practiced by each student.

Hospitality & Business Management



This program takes a first-hand look at the fast-paced and exciting careers in hospitality. Students in this program will receive academic instruction and work experience that reflects industry standards for jobs within the hospitality, event planning and lodging industry, and gain work experience at a local lodging property. Students in this program will learn an overview of lodging management, leadership and management skills, reservations, front desk, housekeeping, marketing and sales, event coordination, and food and beverage service. When students graduate, they will be ready to begin their hospitality career or continue their education at a college or university.



Patient Care Technician

This challenging program prepares students to work as nursing assistants in acute care settings (Hospital, Home Health Agency, Physician Office). A nursing assistant provides direct patient care while utilizing technical skills in tasks assigned by a registered nurse. This individual completes and documents patient care activities. This program is certified by the National Health Career Association (NHA). The curriculum includes medical terminology, anatomy and physiology, medical law and ethics, math, nutrition, growth and development, critical thinking skills, pathophysiology, bedside care, personal care, ECG, phlebotomy, emergency skills, home health aide skills, and medical assisting skills including front office skills. This theory-intensive program includes a significant amount of reading from college level textbooks. The physical ability to move patients, excellent hand dexterity, and good hand-eye coordination are a must. This program offers a clinical internship in a hospital setting, preparing students for nursing programs and other health care careers.

Dental Assistant

The Dental Assistant program integrates lectures, demonstrations and hands-on experiences to teach students a variety of dental-related subjects. The major areas of study include anatomy and physiology, chairside dental assisting, radiology, dental materials and microbiology/sterilization. The program also covers pharmacology, oral pathology, dental anatomy, computer introduction, medical/dental emergencies, dental office business procedures, legal/ethical management and communications. During the second half of the year, students participate in clinical rotations in private dental offices, clinics and hospitals. Experience gained in the Dental Assistant program prepares students to take the Dental Assisting National Board in Dental Radiology Health and Safety required by the Commonwealth of Pennsylvania. The program's textbook is written on a college level, requiring that students entering the program possess excellent reading/comprehension skills. The coursework is a stepping stone to furthering your education as an EFDA, Dental Hygienist or Dentist.

Medical Assistant

Medical assistants are professional, multi-skilled individuals who perform administrative and clinical duties in health care settings. The program includes studies in anatomy and physiology, health insurance coding and billing, medical math, medical terminology, medical law and ethics, pharmacology, clinical and administrative skills. In addition, curriculum includes clinical skills such as phlebotomy, laboratory tests, minor surgical procedures, medication administration and performing electrocardiograms. During the fourth making period, students who have successfully completed program requirements may participate in a six-week clinical experience in a physician's office. The National Health Career Association (NHA) participates with the program to allow medical assistant students to receive certification through this agency. Students who participate in clinical may be eligible to sit for the exams to become certified as a clinical medical assistant, administrative medical assistant, phlebotomist and/or EKG technician. Students planning to pursue further health care training after high school should take the SAT or ACT testing during their junior year.

Nursing Assistant/Home Health Aide

This rewarding program prepares students to work as nursing assistants in long-term care facilities and/or as an aide in the home care environment. A nursing assistant provides direct patient care while utilizing technical skills in tasks assigned by a licensed nurse in the long term care setting. Nursing assistants complete and document patient care activities. This course is approved by the Pennsylvania Department of Education. This course will offer CNA training as well as Home Health Aide training. The curriculum includes medical terminology, anatomy and physiology, legal aspects of health care, math, nutrition, growth and development, critical thinking skills, pathophysiology, and bedside care, as well as home health care. The physical ability to move patients, good hand-eye coordination, dependability, and compassion are required. This program offers students the ability to participate in clinical rotations at long-term care facilities. After clinical completion students are eligible to take the Red Cross certification test. Additional certifications include: American Heart Association First Aid, and Personal Care Home/Direct Care Staff Certification, American Heart Association Healthcare Provider CPR.



Information Technology Center

Computer Systems Technology



Computer Systems Technology includes courses in CompTIA A+ and Network+. In the A+ course, students learn about computer hardware and software such as motherboards, hard drives, operating systems, printers, customer service and troubleshooting in preparation for the CompTIA A+ certification exams. In the Network+ course, students learn advanced networking skills such as subnetting and routing in preparation for the CompTIA Network+ certification exam. Once these courses have been mastered, various vendor-specific product certifications may be taken in order to give the student more specific skills, such as AMP/Tyco cabling certification. Students acquire an in-depth understanding of the planning, installing, configuration and maintenance of computer systems. Instruction includes knowledge of server-level hardware implementations, data storage and data recovery. The program follows standards set forth by CompTIA, AMP/Tyco, and CISCO.



Protective Services Center

Protective Services Academy



The Protective Services programs prepare individuals to apply technical knowledge and skills required to perform entry-level duties in law enforcement, firefighting, emergency medical services, and other public safety services. This program stresses the techniques, methods, and procedures specific to the areas of criminal justice, fire protection, and emergency medical services especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science, and physics students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, firefighting, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.



Transportation Technologies Center

Automotive Technology



With each new model year, automobile systems become more sophisticated. The Automotive Technology program prepares students for entry-level dealership or Independent shop employment and to continue their training at a post-secondary school. The National Automotive Technicians Education Foundation (NATEF) has certified this program in four areas: brake systems, steering and suspension, electronics/electricity, and engine performance. In addition to these areas, the program includes instruction in automotive fundamentals, customer relations, engine management systems, and Pennsylvania State Inspection and Emissions Inspection procedures. Qualified students may participate in the Auto YES Program (Automotive Youth Educational Systems). This intensive program allows students to continue to learn technical skills as they work side-by-side with an experienced technician at a local dealership. Points on a student's driver's license may prevent him/her from being hired by dealerships as a new technician.

Collision Repair



Motor vehicle accidents occur frequently, and while some vehicles are damaged beyond economical repair, most receive only minor damages. Collision Repair Technicians examine these damages and use tools to straighten bent vehicle bodies, remove dents and replace parts so that vehicles operate properly and look like new. The Collision Repair program trains students in this field, covering areas such as safety, estimating, hand and power tool usage, frame repair, body alignment, refinishing, and customer relations. Curriculum also includes metal straightening, mig welding, metal cutting, glass and accessory service, measurement, panel replacement and alignment, servicing doors, surface preparation, cosmetic repairs and the selection of automotive paint finishes. Collision repair requires good color discrimination capabilities, excellent eye-hand coordination, stamina to stand for long periods of time, and a good understanding of measurement and ratios. Qualified students may participate in the Auto YES Program (Automotive Youth Educational Systems). This intensive program allows students to work side-by-side with an experienced technician at a local dealership.

Diesel Equipment Technology

As the diesel equipment industry continues to expand, the demand for mechanics and technicians to repair and maintain diesel equipment grows. The program instructs students in personal and workplace safety practices, tools, measuring devices and fasteners, basic engine principles, preventive maintenance and inspection. Study also includes electrical and electronic systems, truck brake systems, suspension and steering systems, and diesel engine rebuilding. The program is NATEF (National Automotive Technicians Education Foundation) certified in the following areas: diesel engine, brakes, electrical/electronic systems, preventive maintenance inspection, suspension and steering. Mechanics and technicians require a driver's license and a clean driving record. Due to federal regulation, mechanics must undergo drug and alcohol testing when hired and be able to pass random drug and alcohol testing even after continued employment. Qualified students may participate in the API Program (Advanced Placement Internship) and/or cooperative education. The intensive API program allows students to work side by side with an experienced diesel technician.

Heavy Equipment Operation & Basic Maintenance

This program is designed to provide students with the technical and job-related skills to work in the field of heavy equipment operation and maintenance. Students learn skills that prepare them to be heavy equipment operators for excavation and construction. When weather conditions permit, students practice their operation techniques at a training site. Skills are relevant to excavation, site layout, use of transit/laser/ hand levels. The program is certified by the National Center for Construction Education and Research (NCCER) and recognized by the Associated Builders and Contractors (ABC) and also the Associated Pennsylvania Construction Contractors. The course and its curriculum have been developed in conjunction with the Pennsylvania Department of Transportation.

Power Sport Technology

From lawn and garden equipment, such as lawn mowers, lawn and garden tractors, chain saws, leaf blowers, and string trimmers, to vehicles such as motorcycles, dirt bikes, 4-wheelers, and snowmobiles, small engines power many machines that make our lives more fun and convenient. The RV and Outdoor Power Equipment program offers both classroom and lab experience in all phases of repair and maintenance work on outdoor power equipment and recreational vehicles. The program is nationally certified by the Equipment and Engine Training Council (EETC); Outdoor Power Equipment (OPE). It provides instruction and practice in the areas of diagnosis of malfunction, four and two-stroke engines, disassembly of engines, examination of parts, and reassembly of engines, hydrostatic and manual drive units and state inspection. Study includes various systems including fuel, electrical, lubricating, governing, steering, suspension, and braking systems. Students use an assortment of technical manuals, testing and diagnostic equipment, hand tools and power tools. During the school year, students have the opportunity and training to take EETC exams and the PA State Inspection written and performance tests for motorcycles.



Visual Communications Center

Commercial Art

The Commercial Art program is designed to introduce students to necessary tools and skills that will help advance their training in Graphic Design, Illustration, Web Design, Fashion/Interior Design, Advertising Art Direction, Animation, and Film. The Commercial Art program stresses craft, concept and professionalism. The program focuses on traditional board work, layout composition, illustration, elemental photography and production art. Program coursework continues with training on Apple® workstations and Adobe® Creative applications as students study computer graphics, typography and production basics. Students entering the Commercial Art program should have a background in several types of art with at least basic computer experience. Drawing ability, creativity, color keenness and the ability to sit at a workstation for extended periods of time, while meeting strict deadlines, are necessary aptitudes. The Commercial Art program is an excellent prelude to advanced post-secondary training at both colleges and art schools. It allows students to prepare an extensive portfolio and even obtain college credit with participating post-secondary schools.

Digital Design/Print Media

This program provides a comprehensive approach to the printing industry. From the beginning concept to final product, students take print jobs through the entire production process from electronic files to complete prepress, through offset, digital, screen and other printing processes and professional finishing. This program provides a national certification for all students through the Graphic Arts Education and Research Foundation (Print ED/GAERF). Through this comprehensive exploration of graphics and desktop publishing, students cover the fundamentals of page layout, job work flows to digital printers, CTP platemaking, offset press operation and finishing operations in addition to the repurposing of digital information using the Adobe® Creative Suite for the visual communications industry.

Interactive Media and Web Design

This is an instructional program that prepares individuals to apply HTML, XML, JavaScript, graphics applications and other authoring tools to design, edit and publish (launch) documents, images, graphics, sound and multimedia products on the World Wide Web. This program includes instruction in internet theory, webpage standards and policies, elements of webpage design, user interfaces, vector tools, special effects, interactive and multimedia components, search engines, navigation, morphing, e-commerce tools and emerging web technologies. Web architects or programmers are responsible for the overall technical construction of the website. They create the basic framework of the site and ensure that it works as expected. Web architects also establish procedures for allowing others to add new pages to the website and meet with management to discuss major changes to the site. Students will have the choice to focus career opportunities in areas of Web Design, Web Development or Client Relations.

Photography & Digital Imaging

The Photography and Digital Imaging program has a carefully structured curriculum that allows students to gain real world experience in digital media while encouraging students to specialize in the medium of their choice. Students begin their photographic education by developing an understanding of the basic technical skills, along with using their own individual creative talent. Beginning with the camera, students learn the understanding of aperture, ISO, shutter speeds, focal length and depth of field. Students enrolled in this course will gain competency in capturing and producing photographs, using several different digital image file formats (JPG, TIF, RAW). Each individual student will acquire the knowledge to properly prepare and produce digital files, using postproduction software along with the printing of a finished product. The use of different lighting techniques will be taught using both traditional hot lights along with Commercial Studio Strobes. Successful students will acquire and show a formal knowledge of photography through the production and presentation of their own portfolio at the end of the course, along with designing and making their own logo, business card, letterhead and resume.



Part-Day Programs

Advanced Health Careers

The Advanced Health Careers Program at the Lancaster County Career & Technology Center is a half-day academic program for seniors, allowing students to attend both the LCCTC and their sending high school to fulfill college preparatory academic requirements. The program gives students an overview of the health care system and an introduction to health care careers. Through an affiliation with Harrisburg Area Community College, the College in the High School program provides students the opportunity to earn six college credits, transferable to a college of their choice. A unique feature of the program is that health care professionals from the Lancaster Regional Medical Center, Ephrata Community Hospital, The Heart of Lancaster, Lancaster General Suburban Outpatient Pavilion, Schreiber Pediatrics, Lancaster Cancer Center, Susquehanna Valley Emergency Medical Services, and other health/medical facilities provide job shadowing opportunities and career information. Classroom instruction includes anatomy, physiology, medical terminology, medical law, ethics, history of health care, health care economics and safety. Classroom activities and job shadowing provide practice or observation in core skills required in a clinical setting. Students must have excellent reading skills and a good foundation in algebra, chemistry and biology.

Introduction to Construction Careers

Intro to Construction is a half-day, foundational program, which introduces students to careers in the construction industry. Students receive basic instruction in carpentry and construction practices, painting and finishing, electricity, masonry, and plumbing. This program is open to students in grades ten or eleven who plan to apply for admission into one of the full-day senior programs in the Construction Technologies Center. In addition to learning basic skills related to the construction trades, students learn the basics of hand and power tools, power equipment, blueprint reading, and trade-related math. The program offers students exposure to site work, concrete forming, rough framing, exterior and interior finishing, energy conservation, drywall installation, residential and commercial painting, and wood finishing. Students are also exposed to basic electricity and plumbing. Masonry instruction includes the development of clay and shale brick and concrete block, paving with masonry materials, and preparing and pouring concrete. This program stresses problem solving and employability skills necessary for career success.

Introduction to Culinary Careers

Intro to Culinary is a half-day foundational program of study which introduces students to the culinary related career areas of cooking, baking, restaurant service techniques, and the hospitality industry. This program is offered to students in grades ten or eleven who plan to apply for admission into one of the full day senior programs at the Culinary Arts Center located at the Mount Joy Campus. Students learn baking techniques by preparing quick breads, cakes, pies, and cookies. Students also learn basic cooking methods, breakfast preparation, soups, salads, sandwiches, fast foods, stocks, basic meat cutting, and the presentation of food. Students also learn retail skills by selling foods that they prepare in class. Working in the food service industry requires excellent hygiene and an emphasis on safety and sanitation (lab cleanup). For success

in Intro to Culinary, an individual must have excellent hand-eye coordination, good arithmetic skills to measure ingredients accurately, the ability to work quickly, strength to lift heavy pots and pans, ability to work with others, and the stamina to stand for long periods of time.

Introduction to Health Careers

The Health Careers program is a foundational program offered on a half-day basis to students in grades ten or eleven. This program is extremely valuable for students who want to pursue a career in the health care field and is especially important for those who are trying to decide which health career path to select. The program is intended for students who plan to apply for a full-day Health Care Center program for their senior year of high school. Many health careers involve direct interaction with patients, which requires excellent communication skills. Health care professionals typically work as part of a team to provide care. They must pay close attention to details to ensure the good health of their patients. Students learn basic clerical and clinical skills. They study anatomy and physiology, medical terminology, medical law and ethics, history of health care, effective teamwork, communication skills, health care financing, and health care safety.

Introduction to Manufacturing Careers

Intro to Manufacturing program is a foundational program offered on a half-day basis to students in grades ten or eleven. The program focuses on necessary core metalworking skills and prepares students for admission into one of the full-day senior programs at the Advanced Manufacturing Center at the Mount Joy Campus. Students gain useful knowledge of hand tools and machine tools and learn a variety of metal forming processes. The program is designed to allow students the opportunity to explore employment possibilities in metalworking. Students investigate four areas of study, including precision machining, electro-mechanical engineering technology, sheet metal fabrication, and welding. In the electro- mechanical engineering technology phase, students gain experience in basic maintenance and repair, electronics, and sensor technology. The sheet metal fabrication phase introduces students to various skills used in the layout, cutting, forming, and joining of sheet metal. Skills gained in this area are used in employment as a sheet metal mechanic working in roofing, siding, spouting, HVAC ductwork, and custom metal fabrication. The welding phase provides basic training in tig, mig, oxyacetylene, and electric arc welding, which may lead to employment in industrial fabrication, custom welding applications, and repair work.

Introduction to Transportation Careers

Intro to Transportation is a half-day foundational program of study designed for students in grades ten or eleven who plan to apply for a full-day Transportation Technologies Center program at the Willow Street Campus during their senior year. Instructors combine classroom training and hands-on experiences to prepare students in three areas related to transportation: auto mechanics, diesel mechanics, and small engine mechanics. The study of auto and diesel mechanics covers electrical, cooling, exhaust systems, tires and wheels, seals and gaskets, and preventive maintenance. During the small engine curriculum, students learn disassembly of engines and examination of parts, reconditioning and replacement of parts, diagnosis of malfunctions, and adjustment and repair of fuel systems. All three areas include safety instruction, identification, use of hand and power tools, and use of various fasteners. This program is designed as an entry-level, preparatory program, which has been developed specifically to provide students with the basic skills needed to apply for admission to one of the LCCTC full-day Transportation Technologies Center senior programs and give students skills they will use for their entire life.

Introduction to Visual Communications Careers

Intro to Visual Communication is a foundational program offered on a half-day basis to students in grades ten or eleven. This program is extremely valuable for students who want to pursue a career in the visual communications field. Students explore and learn specific skills related to a variety of visual communications careers. It is especially important for those who plan to apply for a full-day Visual Communications Center program at the Brownstown Campus during their senior year of high school. Students learn visual and graphic design basics, web design principles, desktop publishing, electronic imaging, color theory, basic drawing, typography, plate making, offset press operation, bindery, pre-press procedures, photography, video-editing and production. This program is designed as an entry-level, foundational program, which has been developed specifically to provide students with the basic skills needed to apply for admission to one of these LCCTC full-day senior programs: Commercial Art, Digital Design/Print Media, Interactive Media and Web Design or Photography and Digital Imaging.

*****New for 2022-23*****

Welding Technology will take place at our Willow Street Campus in a 3-year program model. Students will enter the program as sophomores and attend for a full-day for one semester (Fall or Spring). This format will continue for the students junior and senior year. For the senior year, students may be eligible to participate in work-based cooperative education during their program semester at the CTC.

Welding Technology (Willow Street Campus/3-year program)

Welders apply intense heat to metal pieces to join, melt and fuse them to form a permanent bond. Students in the program learn the techniques of Oxyfuel, Arc, Mig and Tig welding processes necessary for a variety of construction and repair projects such as building bridges, automobiles and other manufactured products. The Welding Technology program is nationally accredited by the American Welding Society (AWS/SENSE) and introduces students to both welding and cutting. Welders and cutters need manual dexterity, strength to lift heavy objects, measurement skills, good eyesight and hand-eye coordination. They should be able to concentrate on detailed work for long periods and be able to bend, stoop and work in awkward positions.

Equal Rights and Opportunities/Non-Discrimination Policy Statement

The Cocalico School District is an equal opportunity education institution and in compliance with the requirements of the Title VI, Title IX, Section 504, and the Americans with Disabilities Act (A.D.A.), will not discriminate on the basis of race, color, religion, national origin, sex, disability or handicap in its activities, programs or employment practices.

For more information regarding civil rights or grievance procedures, contact Dr. Ella Musser, Cocalico School District, South Fourth Street, Denver, PA 17517.

For information regarding services, activities, and facilities that are accessible to and usable by persons with disability, contact Dr. Ella Musser at 717-336-1417.

Students with Disabilities

In compliance with state and federal law, notice is hereby given by the Cocalico School District that it conducts ongoing identification activities as a part of its school program for the purpose of identifying students who may be in need of special education and related services (eligible students). If your child is identified by the District as possibly in need of such services, you will be notified of applicable procedures. Individualized services and programs are available for children who are determined to need specially designed instruction due to the following conditions:

1. Autism/Pervasive Developmental Disorder (PDD)
2. Deaf-Blindness
3. Development Delay (Early Intervention Program only)
4. Emotional Disturbance (ED)
5. Hearing Impairment, including Deafness
6. Intellectually Disabled
7. Multiple Disabilities
8. Other Health Impairments (OHI)
9. Orthopedic Impairment
10. Specific Learning Disability (SLD)
11. Speech and Language Impairment
12. Traumatic Brain Injury
13. Vision Impairment, including Blindness

For further information on the rights of parents and children, provisions of services, evaluation and screening processes and rights to due process procedures, you may contact the Director of Special Education at 717-336-1461.



Cocalico

School District

Every Child. Every Chance. Every Day

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