

A GUIDE FOR CAREER PLANNING AND COURSE SELECTION 2020-2021



ARTS & COMMUNICATIONS

BUSINESS, FINANCE & INFORMATION TECHNOLOGY

HUMAN SERVICES

ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGY

HEALTH SCIENCES

South Williamsport Area Jr./Sr. High School

Mr. Jesse Smith, *Principal*
Mr. Scott Hill, *Assistant Principal*
Mrs. Lisa Laidacker, *School Counselor*
Mrs. Emily Wagner, *School Counselor*

700 Percy Street
South Williamsport, PA 17702
Phone: (570) 326-2684
Fax: (570) 326-2687
www.swasd.org

Table of Contents

District Information 4

Core Beliefs 4

Mountie Pathways 5

Pathway Guide..... 13

Education Opportunities..... 21

Advanced Placement (AP)..... 21

Career and Technical Education (CTE)..... 21

Mansfield Early Start Program 21

MountieAcademy.org..... 21

Penn College NOW..... 21

Course Descriptions..... 22

ART..... 23

BUSINESS & TECHNOLOGY..... 25

CAREER & TECHNICAL EDUCATION 29

ENGLISH..... 40

FAMILY & CONSUMER SCIENCE..... 45

FOREIGN LANGUAGE..... 47

MATHEMATICS..... 49

MANSFIELD UNIVERSITY EARLY START PROGRAM 52

MUSIC..... 56

PHYSICAL EDUCATION & HEALTH 57

SCIENCE 58

SOCIAL STUDIES..... 62

Graduation Requirements..... 65

Class of 2021 65

Class of 2022 65

Class of 2023 and Beyond..... 67

Graduation with Distinction..... 67

Counseling Services 68

Academic Advisement 68

Career Planning..... 68
Personal Wellness..... 69
Other Information..... 70
Failed Courses 70
Promotion Policy 70
Course Dropping Procedures 70
Math Course Sequencing 71
Course Selection Sheet 72

District Information

Core Beliefs

- 1. Deeper understanding and critical thinking are skills developed through deliberately planned instruction around innovative, learner-focused tasks.*
- 2. State and national assessments are important indicators of progress toward external standards, but increasing scores or maintaining pace with a core curriculum does not supersede professional judgment to teach the immediate needs of the student.*
- 3. Purpose-driven teams can leverage meaningful changes in how students learn in a culture of innovation where risk is supported and encouraged.*
- 4. Meaningful connections between school, students, and families are created through a caring and transparent environment where active sharing of information is encouraged.*

Mountie Pathways
SOUTH WILLIAMSPORT AREA SCHOOL DISTRICT

Central and Rommelt Elementary

Career Awareness



Jr. High

Career Exploration



9th Grade

Mountie Pathways' Identification and Selection

- Arts and Communications
- Business, Finance, and Information Technology
- Engineering and Industrial Technology
- Health Sciences
- Human Services



10th – 12th Grade

Follow Mountie Pathways' Courses
Post-Secondary Planning and Preparation

What are Mountie Pathways?

Each Pathway is a broad grouping of careers that share similar characteristics and whose employment requirements call for many common interests, strengths and competencies. A chosen pathway focuses the selection of core and elective courses while offering post-secondary preparation for all.

Why will I choose a Mountie Pathway?

- *To create career awareness and encourage planning for post-secondary education and opportunities*
- *To help set goals and discover classes necessary to achieve those goals*
- *To help focus on a career area that matches interests in high school*
- *To provide knowledge that relates your high school education to the world after graduation*

How do I choose a Mountie Pathway?

You will research various career fields and industries in your 8th grade survey class and through designated career development activities. Your counselors, families, and teachers can assist you with this choice.

Will there be any change in my major academic studies?

No, you will still take all required core courses and follow the graduation requirements listed on pages 56-57 of this document.

What if I want to switch my Mountie Pathway?

You are able to switch at any point during your high school career. This will not affect your ability to graduate on time. Talk to your School Counselor if you desire to switch.

What is the purpose of this guide?

This booklet has been developed to guide you through future career planning and course selection. Choosing “what comes next” is one of the most exciting and challenging decisions you will make. You have the opportunity to determine your future, rather than leaving it up to chance or luck. Planning for it will give you a better chance to achieve your goals.

Everyone enters the work force at some point. To plan your career, you need to plan your high school academic program. The courses you take and your experiences in high school can lead you to your chosen career path. Career implies more than just a job – it includes education, work, and lifestyle. Achieving success in a career takes planning, studying, training and vision. Your course options now allow you to smoothly and successfully implement your career plan later. Use this booklet to aid you in charting your Mountie pathway. You may change your focus during high school, but having a goal will help you to select the best courses according to your interests.



Pathway Descriptions

Arts and Communications

Students in this pathway will be exposed to both visual and performing arts in addition to written and verbal expression.

Business, Finance, and Information Technology

Students in this pathway will concentrate their electives across our business department while focusing on technical literacy and ability.

Engineering, Manufacturing, and Industrial Technology

Students in this pathway will focus on developing mechanical and technical skills. Pre-apprenticeship and national certifications are accessible to those in this pathway through Career and Technical Education.

Health Sciences

Students in this pathway will engage in a variety of science electives while gaining hands-on lab experience, as well as demonstrate abilities in mathematical expression.

Human Services

Students in this pathway will become immersed in our social science coursework and gain essential communication skills necessary for this field.

ARTS & COMMUNICATIONS



- Audio/Video Technology and Film
- Journalism and Broadcasting
- Performing Arts
- Visual Arts

RECOMMENDED COURSES

- **3613, 3614, 3615** 2D Design I, II, III
- **3616, 3617, 3618** 3D Design I, II, III
- **3903** Figure Drawing
- **3639** Digital Photography
- **3641** Multimedia
- **3707** Band
- **3709** Chorus
- **3711** 88 Keys – Two Hands
- **3712** Bach to Rock
- **3839** Yearbook
- **3950** Speech Communications
- **4128** BWM: Intro to Webpage Development
- **4208** American Plays
- **4214** From Literature to Film

Career & Tech Options

- **3910** Commercial Art

RECOMMENDED ACTIVITIES/CREDENTIALS

- Become a member of Drama Club
- Volunteer with Penguin Project at the Community Theatre League

OCCUPATIONS *(Lycoming County Data – May 2018)*

	ART DIRECTOR	MULTIMEDIA ARTIST & ANIMATOR	FILM & VIDEO EDITOR	PUBLIC RELATIONS SPECIALIST	PHOTOGRAPHER	RADIO & TV ANNOUNCER
AVERAGE ANNUAL SALARY	\$91,960 <i>(WDA Average)</i>	\$68,580 <i>(State Average)</i>	\$61,920 <i>(PA Average)</i>	\$54,520 <i>(County Average)</i>	\$43,420 <i>(County Average)</i>	\$34,670 <i>(County Average)</i>
OUTLOOK	No Growth	Increasing Demand	Increasing Demand	Steady	Steady	Steady
EDUCATION	Bachelor's Degree+	Bachelor's Degree	Bachelor's Degree	Bachelor's Degree	Work Experience	Bachelor's Degree

BUSINESS, FINANCE & INFORMATION TECHNOLOGY



- Administrative Support
- Operations Management
- Business Information Management
- Human Resources Management

RECOMMENDED COURSES

- **3156** Composition
- **3950** Speech Communication
- **4212** Business Writing and Communication
- **3625** Intro to Business
- **3628** Entrepreneurship
- **3629** Sports Marketing
- **3630** Business Law
- **3631** Intro to Programming
- **3632** Accounting
- **3633** Personal Finance
- **3656** Advanced Accounting
- **4028** Computer Science Principles AP
- **4129** MGT 105: Intro to Business

Career & Tech Options

- **3968** Computer Information Technology

RECOMMENDED ACTIVITIES/CREDENTIALS

- Join Future Business Leaders of America
- Develop leadership skills through athletics or volunteering
- Attend Pennsylvania Free Enterprise Week at Lycoming College



OCCUPATIONS *(Lycoming County Data – May 2018)*

	HUMAN RESOURCE MANAGER	COMPUTER PROGRAMMER	COMPUTER SYSTEMS ANALYST	SOCIAL & COMMUNITY SERVICE MANAGER	FOOD SERVICE MANAGER	TAX PREPARER
AVERAGE ANNUAL SALARY	\$110,860 <i>(County Average)</i>	\$74,340 <i>(County Average)</i>	\$62,290 <i>(County Average)</i>	\$62,000 <i>(County Average)</i>	\$54,590 <i>(County Average)</i>	\$24,910 <i>(WDA Average)</i>
OUTLOOK	Increasing Demand	High Demand	Increasing Demand	Increasing Demand	Increasing Demand	Steady
EDUCATION	Bachelor's Degree+	Bachelor's Degree	Bachelor's Degree	Bachelor's Degree+	Work Experience	On the Job Training

ENGINEERING, MANUFACTURING & INDUSTRIAL TECHNOLOGY



- Engineering (Civil, Electrical, Environmental, Industrial)
- Manufacturing (Machine Tool Operator, Assembler & Fabricator)
- Tool & Die Maker, Welder, etc.

RECOMMENDED COURSES

- **3299** Pre-Calculus
- **3352** Calculus AP
- **3430** Ecology
- **3685** CADD
- **4195** Physics – E & M
- **4196** Physics – Waves
- **4224** Physics – Motion
- **4223** Personal Math
- **4197** OSHA
- **4028** Computer Science Principles AP

Career & Tech Options

- **3026** Automotive Technology
- **3028** Welding
- **3057** Construction Trades
- **3969** Engineering/Robotics
- **3970** Precision Machining

RECOMMENDED ACTIVITIES/CREDENTIALS

- Develop leadership skills through clubs, sports, work, service, etc.
- Compete at Skills USA competitions through CTE
- Earn NOCTI Certifications
- Seek employment with PennDOT through their Summer Maintenance Program



OCCUPATIONS *(Lycoming County Data – May 2018)*

	INDUSTRIAL ENGINEER	CIVIL ENGINEER	COMPUTER PROGRAMMER	SUPERVISOR: PRODUCTION WORKERS	MACHINE TOOL OPERATOR	ASSEMBLER & FABRICATOR
AVERAGE ANNUAL SALARY	\$82,490 <i>(County Average)</i>	\$76,460 <i>(County Average)</i>	\$74,340 <i>(County Average)</i>	\$57,550 <i>(County Average)</i>	\$42,850 <i>(County Average)</i>	\$31,030 <i>(County Average)</i>
OUTLOOK	Increasing Demand	Increasing Demand	High Demand	Increasing Demand	High Demand	High Demand
EDUCATION	Bachelor's Degree	Bachelor's Degree	Bachelor's Degree	Work Experience	On the Job Training	On the Job Training

HEALTH SCIENCES



- Biotechnology Research & Development
- Diagnostic Services
- Health Informatics
- Therapeutic Services

RECOMMENDED COURSES

- **3420** Biology
- **3441** Chemistry
- **3949** Chemistry AP
- **4225** Physiology – Intro
- **4192** Physiology – Body Systems
- **4194** Physiology – Neurology
- **3951** Psychology
- **3728** Weight Training & Fitness
- **3950** Speech Communications
- **4191** Bioethics
- **4197** OSHA
- **4199** Cultural Studies
- **4203** Abnormal Psychology

Career & Tech Options

- **3055** Health Occupations
- **3966** Biotechnology

RECOMMENDED ACTIVITIES/CREDENTIALS

- Work or volunteer at UPMC Susquehanna or in a local nursing home
- Develop leadership skills through clubs, sports, work, or service, etc.
- Obtain CPR, AED, and First Aid Certification



OCCUPATIONS *(Lycoming County Data – May 2018)*

	PHYSICIAN & SURGEON	NURSE ANESTHETIST	PHYSICIAN'S ASSISTANT	REGISTERED NURSE (RN)	RADIOLOGIC TECHNOLOGIST	LICENSED PRACTICAL NURSE (LPN)
AVERAGE ANNUAL SALARY	\$243,610 <i>(County Average)</i>	\$171,250 <i>(State Average)</i>	\$95,350 <i>(County Average)</i>	\$69,580 <i>(County Average)</i>	\$55,320 <i>(WDA Average)</i>	\$41,160 <i>(County Average)</i>
OUTLOOK	Increasing Demand	Increasing Demand	Increasing Demand	Increasing Demand	Increasing Demand	Increasing Demand
EDUCATION	Doctoral Degree	Master's Degree	Master's Degree	Bachelor's Degree	Associates Degree	Post-Secondary

HUMAN SERVICES



- Administration & Administrative Support
- Professional Support Services
- Teaching / Training

RECOMMENDED COURSES

- **3156** Composition
- **3950** Speech Communication
- **3951** Psychology
- **3666** Child Development
- **3667** Infant Development
- **3668** Fundamentals of Food
- **3670** Meal Planning
- **4199** Cultural Studies
- **4202** Social Philosophy
- **4203** Abnormal Psychology & Beyond
- **4206** Criminal Justice

Career & Tech Options

- 3038 Early Childhood Education
- 3049 Culinary Arts
- 4170 Homeland Security

RECOMMENDED ACTIVITIES/CREDENTIALS

- Part-time employment through coaching a youth sport, church groups, childcare, etc.
- Develop leadership skills through clubs, sports, work, service, etc.
- Job shadow a teacher in our District
- Become a Teen Contact



OCCUPATIONS *(Lycoming County Data – May 2018)*

	CLINICAL/ SCHOOL PSYCHOLOGIST	ELEMENTARY/ SECONDARY TEACHER	MARRIAGE & FAMILY THERAPIST	SOCIAL WORKER	COMMUNITY HEALTH WORKER	EMT/ PARAMEDIC
AVERAGE ANNUAL SALARY	\$73,870 <i>(County Average)</i>	\$66,920 <i>(County Average)</i>	\$58,400 <i>(County Average)</i>	\$59,230 <i>(WDA Average)</i>	\$33,870 <i>(County Average)</i>	\$29,880 <i>(County Average)</i>
OUTLOOK	Slight Growth	Increasing Demand	Increasing Demand	Increasing Demand	Increasing Demand	Increasing Demand
EDUCATION	Doctorate Degree	Bachelor's Degree	Bachelor's Degree	Bachelor's Degree	Work Experience	Post-Secondary

PATHWAY GUIDE

To the right of the courses listed are the 5 Mountie Pathways offered in the high school. The “X” indicates that the course is suggested for a given pathway.

Course Number	Course Name	Credits	Arts & Communications	Business, Finance, & Information Technology	Engineering, Manufacturing & Industrial Technology	Health Sciences	Human Services
3299	Pre-Calculus	0.5			X	X	
3320	Algebra I Applied (Keystone Course)	1	X	X	X	X	X
3321	Algebra I (Keystone Course)	1	X	X	X	X	X
3322	Geometry 9 Advanced	1	X	X	X	X	X
3330	Geometry Applied	1	X	X	X	X	X
3331	Geometry	1	X	X	X	X	X
3332	Algebra II Advanced	1	X	X	X	X	X
3340	Algebra II Applied	1	X	X	X	X	X
3341	Algebra II	1	X	X	X	X	X
3342	Trigonometry 11 Advanced	1			X	X	
3351	Trigonometry	0.5	X		X	X	
3352	Calculus AP	1			X	X	
3745	MSAT	0.5	X	X	X	X	X
4011	Probability and Statistics	0.5	X	X			X
4190	College Placement Exam Prep	0.5	X	X	X	X	X
4223	Personal Mathematics	0.5	X				
3152	Literature & Composition AP	1	X				

Course Number	Course Name	Credits	Arts & Communications	Business, Finance, & Information Technology	Engineering, Manufacturing & Industrial Technology	Health Sciences	Human Services
3156	Composition	0.5	X	X	X	X	X
3832	English 9 (Keystone Course)	1	X	X	X	X	X
3122	English 9 Advanced (Keystone Course)	1	X	X	X	X	X
3839	Yearbook	1	X	X			X
3840	Yearbook II	1	X	X			X
3950	Speech Communications	0.5	X	X	X	X	X
4172	Yearbook III	1	X	X			X
4207	Shakespearean Tragedies	0.5	X				
4208	American Plays	0.5	X				
4209	Social Justice Literature	0.5	X	X	X	X	X
4210	Utopian/Dystopian Literature	0.5	X	X	X	X	X
4211	Biographies	0.5	X	X	X	X	X
4212	Business Writing & Communications	0.5		X	X	X	
4214	From Literature to Film	0.5	X	X	X	X	X
4213	International Literature	0.5	X	X	X	X	X
4215	Literature of War	0.5	X	X		X	X
4216	Science Fiction	0.5	X	X	X	X	X
4217	Literature of Horror	0.5	X		X	X	X
4218	Shakespearean Comedies	0.5	X		X		X
4219	Short Stories	0.5	X	X	X		X

Course Number	Course Name	Credits	Arts & Communications	Business, Finance, & Information Technology	Engineering, Manufacturing & Industrial Technology	Health Sciences	Human Services
4220	American Poetry	0.5	X				X
4221	American Literature 1	0.5	X				X
4222	American Literature 2	0.5	X				X
3420	Biology (Keystone Course)	1	X	X	X	X	X
3421	Biology Advanced (Keystone Course)	1	X	X	X	X	X
3430	Ecology	0.5			X		
3441	Chemistry	1				X	X
3747	Alternate Energy	0.5	X	X	X	X	X
3949	Chemistry AP	2				X	
3991	Forensics	0.5				X	X
4191	Bioethics	0.5	X	X		X	
4193	Organic Chemistry	0.5				X	
4225	Physiology - Intro	0.5	X	X	X	X	X
4192	Physiology - Body Systems	0.5	X			X	
4194	Physiology - Neurology	0.5	X			X	X
4224	Physics - Motion	0.5	X	X	X	X	X
4195	Physics - E & M	0.5			X	X	
4196	Physics - Waves	0.5			X	X	
4197	OSHA	0.5		X	X	X	
3220	American History I	1	X	X	X	X	X

Course Number	Course Name	Credits	Arts & Communications	Business, Finance, & Information Technology	Engineering, Manufacturing & Industrial Technology	Health Sciences	Human Services
3241	<i>World History AP</i>	1		X			X
3252	<i>US Government AP</i>	1		X		X	X
3951	<i>Psychology</i>	0.5	X			X	X
4198	<i>World Religions</i>	0.5		X		X	X
4199	<i>Cultural Studies</i>	0.5	X	X	X	X	X
4200	<i>Political & Physical Geography</i>	0.5	X	X	X	X	X
4206	<i>Criminal Justice</i>	0.5				X	X
4201	<i>Socialization & Activism</i>	0.5	X	X		X	X
4202	<i>Social Philosophy</i>	0.5	X				X
4203	<i>Abnormal Psychology & Beyond</i>	0.5				X	X
4205	<i>Economics</i>	0.5	X	X	X	X	X
3520	<i>Spanish I</i>	1	X	X	X	X	X
3521	<i>Spanish II</i>	1	X	X	X	X	X
3522	<i>Spanish III</i>	1	X	X	X	X	X
3523	<i>Spanish IV</i>	1	X	X	X	X	X
3530	<i>French I</i>	1	X	X	X	X	X
3531	<i>French II</i>	1	X	X	X	X	X
3532	<i>French III</i>	1	X	X	X	X	X
3533	<i>French IV</i>	1	X	X	X	X	X
3665	<i>Quilting</i>	0.5	X	X			

Course Number	Course Name	Credits	Arts & Communications	Business, Finance, & Information Technology	Engineering, Manufacturing & Industrial Technology	Health Sciences	Human Services
3666	<i>Child Development</i>	0.5				X	X
3667	<i>Infant Development</i>	0.5				X	X
3668	<i>Fundamental of Foods</i>	0.5				X	X
3669	<i>Creative Foods</i>	0.5				X	X
3670	<i>Meal Planning and Prep</i>	0.5				X	X
3707	<i>Band I</i>	1	X				
3708	<i>Band II</i>	0.5	X				
3709	<i>Chorus I</i>	1	X				
3710	<i>Chorus II</i>	0.5	X				
3711	<i>88 Keys - Two Hands</i>	0.5	X				
3712	<i>Bach to Rock</i>	0.5	X				
3613	<i>2D Design I</i>	0.5	X		X		
3614	<i>2D Design II</i>	0.5	X		X		
3615	<i>2D Design III</i>	0.5	X		X		
3616	<i>3D Design I</i>	0.5	X				
3617	<i>3D Design II</i>	0.5	X				
3618	<i>3d Design III</i>	0.5	X				
3903	<i>Figure Drawing</i>	0.5	X				
3624	<i>Future Business Leaders</i>	0.5	X	X	X	X	X
3625	<i>Intro to Business</i>	0.5		X			X
3628	<i>Entrepreneurship</i>	0.5	X	X	X	X	X

Course Number	Course Name	Credits	Arts & Communications	Business, Finance, & Information Technology	Engineering, Manufacturing & Industrial Technology	Health Sciences	Human Services
3629	<i>Sports Marketing</i>	0.5		X			X
3630	<i>Business Law</i>	0.5		X	X		X
3632	<i>Accounting I</i>	1		X			
3633	<i>Personal Finance</i>	0.5	X	X	X	X	X
3656	<i>Advanced Accounting</i>	1		X			
3908	<i>Advanced Business law</i>	0.5		X			
4129	<i>MGT: Intro to Business</i>	1		X			
3626	<i>Computer Applications</i>	0.5	X	X	X	X	X
3631	<i>Intro to Programming</i>	0.5		X	X		
3639	<i>Digital Photography</i>	0.5	X				
3641	<i>Multimedia</i>	0.5	X				
3685	<i>CADD</i>	0.5	X	X	X		
4028	<i>Computer Science Principles AP</i>	1		X	X		
4128	<i>BWM 150: Intro to Webpage Development</i>	1	X	X	X		
3726	<i>Current Issues in Health</i>	0.5	X	X	X	X	X
3728	<i>Weight Training & Fitness</i>	0.5	X		X	X	X
3730	<i>Net Sports</i>	0.5	X		X		X
3731	<i>Fundamentals of Team Sports</i>	0.5	X				X
3732	<i>Strategies & Tournament Play</i>	0.5	X	X	X		X
3026	<i>L1 Automotive Technology</i>	2			X		
3027	<i>L2 Automotive Technology</i>	2			X		

Course Number	Course Name	Credits	Arts & Communications	Business, Finance, & Information Technology	Engineering, Manufacturing & Industrial Technology	Health Sciences	Human Services
3028	L1 Welding	2			X		
3034	L3 Early Childhood Education	3					X
3038	L1 Early childhood Education	2					X
3039	L2 Early Childhood Education	2					X
3046	L3 Automotive Technology	3			X		
3049	L1 Culinary Arts	2					X
3055	L1 Health Occupations	2				X	
3057	L1 Construction Trades	2			X		
3842	L2 Welding	2			X		
3843	L3 Welding	3			X		
3868	L2 Construction	2			X		
3871	L2 Culinary Arts	2					X
3914	L3 Construction	3			X		
3966	L1 Biotechnology	2				X	
3967	L1 Commercial Art	2	X				
3968	L1 Computer Information Technology	2		X			
3969	L1 Engineering/Robotics	2			X		
3970	L1 Precision Machining	2			X		
3971	L3 Culinary Arts	3					X
4012	L2 Computer Info Technology	2		X			
4013	L2 Biotechnology	2				X	

Course Number	Course Name	Credits	Arts & Communications	Business, Finance, & Information Technology	Engineering, Manufacturing & Industrial Technology	Health Sciences	Human Services
4014	L2 Engineering/Robotics	2			X		
4015	L3 Health Occupations	3				X	
4017	L2 Health Occupations	2				X	
4092	L3 Engineering/Robotics	3			X		
4094	L3 Biotechnology	3				X	
4107	L2 Precision Machining	2			X		
4108	L3 Precision Machining	3			X		
4109	L3 Commercial Art	3	X				
4110	L3 Computer Information Technology	3		X			
4170	L1 Homeland Security	2				X	X
	L2 Homeland Security	2				X	X
	L3 Homeland Security	3				X	X
4016	L2 Commercial Art	2	X				

Education Opportunities

Advanced Placement (AP)

These courses mimic the rigor of college coursework. They are taught by our teachers and students can pay to take the exam in May. If they receive a 3 or higher on the exam, some colleges will take it as credit.

Career and Technical Education (CTE)

The CTE curriculum is offered to students in grades 10-12. In order for a student to attend the career and technical program, the student must successfully complete a minimum of 6 credits at the end of their 9th grade year as well as other requirements (see Student Handbook). CTE students spend four or five periods each day here at South, taking required academic subjects and two or three periods each day in the program of their choice. The CTE courses are located at Williamsport Area High School (transportation is provided).

Mansfield Early Start Program

Our school district has an agreement with Mansfield University that allows students to take online college courses at only \$50 per credit in the Fall, Spring, or Summer semesters. Students earn high school credit as well as college credit. Previous courses include Introduction to Nutrition, Sociology, and other humanities electives. Counselor approval is needed for all courses. An online application can be found at <https://www.mansfield.edu/esp/index.cfm>. Please inform your school counselor if you decide to apply.

MountieAcademy.org

We offer a wide variety of online courses to students who would like to diversify their course curriculum. Currently, cost is covered by the student and varies by course. Please seek out your counselor if you would like to explore the courses available for the upcoming school year.

Penn College NOW

Our Business and Technology educators are currently teaching two courses in which students can take to earn college credit from the Pennsylvania College of Technology. The course is free to all students. Additional GPA and reading level requirements are necessary in most circumstances as well as approval from your school counselor.

*Course
Descriptions
2020-2021*

ART

2 DIMENSIONAL DESIGN I

0.5 Credit

Drawing from observation to develop strong drawing skills. Focus will be on identifying and recording value, proportion and spatial relationships.

2 DIMENSIONAL DESIGN II

Pre-requisite: 2D Design I

0.5 Credit

This course is a continuation of 2D Design skills with the aim that you will become more comfortable recording and expressing information visually. The level II offers more freedom of image choice and opportunity for self-expression and critical thinking. A variety of materials will be utilized and color theory will be introduced. The level II course runs simultaneously with the level I course.

2 DIMENSIONAL DESIGN III

Pre-requisite: 2D Design II

0.5 Credit

2D Design III is a continuation of 2D Design II. Advanced technique and complex imagery will reflect more philosophical thought. Research of artists and their styles will be an important element of the course. The level III course runs simultaneously with the level I and II courses.

INDEPENDENT STUDY 2 DIMENSIONAL DESIGN

Pre-requisite: 2D Design III

0.5 Credit

A student who has completed and excelled in 2D Design I, II and III may request permission to take the 2D Design Independent Study. This course of study is designed for the individual who can work independently with minimal guidance. Candidates for this course must be creative and highly motivated.

3 DIMENSIONAL DESIGN I

0.5 Credit

Learn to design and form ceramic works of art. Explore methods of fabrication. Topics covered will be brief history of clay in the art world, design for function and art, building and finishing techniques, as well as firing.

3 DIMENSIONAL DESIGN II

Pre-requisite: 3D Design I

0.5 Credit

The level II course is a continuation of tasks introduced in the level I course. Advanced technique and more complex design work will be encountered. This course will be offered simultaneously with 3D Design I.

3 DIMENSIONAL DESIGN III

Pre-requisite: 3D Design II

0.5 Credit

This is a continuation of tasks encountered in level II. Advanced design work will reflect more philosophical thought. Advanced technique will utilize slab, coil and wheel work as well as a combination of technique. Sculptural work will also be approached. The 3D Design III course will be offered simultaneously with 3D Design level I & II.

INDEPENDENT STUDY 3 DIMENSIONAL DESIGN

Pre-requisite: 3D Design III

0.5 Credit

A student who has completed and excelled in 3D Design I, II & III may request permission to take the 3D Design Independent Study. This course of study is designed for the individual who can work independently with minimal guidance. Candidates for this course must be creative in design and problem solving as well as possess a work ethic.

FIGURE DRAWING

Pre-requisite: 2D Design I

0.5 Credit

The human figure is central to much of what an artist has to say; therefore, the focus of this course is the human figure. Drawing and sculpting from models teaches one to be spontaneous and forthright when recording the pose. Time is utilized to learn the human form. Time will also be spent completing works of art that include the human form. This advanced course is recommended for those students who have completed 2D Design I and in grade 10-12.

BUSINESS & TECHNOLOGY

The current business and technology curriculum has been updated to provide the life skills needed by every high school student to succeed in today's high-tech world. Courses are provided not only for individuals desiring to work in an office environment, but also for students considering business management, administration, or business ownership as an ultimate career goal. Numerous courses may be selected as electives for those students not wishing to major in business.

ACCOUNTING I

1.0 Credit

Assets, Debits, and Credits OH MY! Assets, Debits, and Credits OH MY! Accounting I: Making Cents of It All, is your yellow brick road to financial understanding. If you are interested in majoring in a business-related field in college or pursuing a career in business, Accounting I is the class for you. This course will provide a basic understanding of accounting terminology, the accounting equation, and the processes used to prepare accounting information according to the accounting cycle. Throughout the course students will analyze real world cases and complete accounting records in a simulation activity.

ADVANCED ACCOUNTING

Pre-requisite: Accounting I

1.0 Credit

Advanced Accounting is a full year course for students who have successfully completed Accounting I and would like to seek employment or major in the accounting field. The course will focus on the accounting cycle for a merchandising business organized as a corporation. Topics will include inventory valuation, asset depreciation, and corporate accounting.

ADVANCED BUSINESS LAW

Pre-requisite: Business Law; Junior or Senior status

0.5 Credit

Interested in learning more about the law and how it affects you specifically? Sign up for this semester course that will teach you even more about civil & criminal law, contracts, wills, trusts, estates, and much more! Uncover the facts of law through real case scenarios, mock trials, and exposure to law enforcement practices!

AP COMPUTER SCIENCE PRINCIPLES

Pre-requisite: Introduction to Programming is encouraged; Junior or Senior status

1.0 Credit

This course consists of an object-oriented programming methodology with an emphasis on problem solving and algorithm development and is meant to be taken in preparation for the AP CSP exam. It also includes the study of data structures and abstraction. Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. Students will also learn to apply programming tools and solve complex problems through hands-on experiences and examples. In addition, these students will prepare for the Computer Science Principles Advanced Placement examination given in May. They will explore various technological gadgets and apply coding concepts (i.e. Spheros, Ozobots, Mbots, Raspberry Pi, etc.). **“AP® and Advanced Placement® are registered trademarks of the College Board. Used with permission.”**



BUSINESS LAW

0.5 Credit

Interested in learning about the law and how it affects your daily life? Sign up for this semester course that will teach you about civil and criminal law, torts, contracts, and much more! Uncover the facts of law through real case scenarios, mock trials, and a visit to the court house just to name a few of the activities this course will entail!

BWM150: INTRODUCTION TO WEB PAGE DEVELOPMENT

Pre-requisites: Junior or Senior status; 75% (C) minimum overall GPA;

Elementary Algebra test Level 2

1.0 Credit

Introductory coverage of the Internet and online Web technologies. Skills learned include how to plan, create, and maintain static web pages. 3 College Credits (3 Lecture – 0 Lab).



COMPUTER-AIDED DESIGN AND DRAFTING (CADD)

0.5 Credit

This course will introduce students to 3-dimensional parametric modeling and 2-dimensional drafting using Autodesk Fusion 360 software. Emphasis will be placed on the line, circle, constraint, extrude, revolve and sweep commands used to create 3-dimensional models. Technical drawing concepts covered will be multi-view drawings, isometric drawings, orthographic projection, dimensioning, and section views. Students who desire to pursue careers in mechanical, construction, architecture, engineering, or scientific fields will benefit from this class.

COMPUTER APPLICATIONS

0.5 Credit

Do you need to report on a topic, prepare a resume, build a graph, create a spreadsheet for easy calculating of information, give an interactive presentation, or utilize web based tools? You can use different applications to meet all your needs. This semester elective will focus on the practical parts of Microsoft Word (Word Processing), Microsoft Excel (Spreadsheets), Microsoft PowerPoint (presentations), and Microsoft Publisher (Desktop publishing). In addition, you will learn multiple web based tools that allow you to format and manipulate data. See how this course can make your school and employment life easier by strengthening your computer application skills!

DIGITAL PHOTOGRAPHY

0.5 Credit

This course is designed to give the student an introductory through intermediate experience in the world of Digital Photography. Students will gain an exceptional understanding of digital photography cameras, manual settings, lighting, shadows, camera angles and techniques for capturing quality photographic images. Students will also work with Adobe Photoshop, the industry leading software choice for editing used by professionals around the world. At completion of this course, students will have produced a digital photography portfolio that will be used to highlight their work throughout this course.

ENTREPRENEURSHIP

0.5 Credit

Do you like the idea of being your own boss? Do you want to own your own business some day? This semester course will take you on a step-by-step journey through the entire process of owning your own business. You will select a product or service to sell, determine your customers, market your business, manage your employees, and assemble a business plan.

FUTURE BUSINESS LEADERS OF AMERICA

0.5 Credit

Wish you could focus your time on becoming more involved with FBLA activities? Are you interested in advancing to state and national level competitions? Are you looking for additional merits to separate yourself from everyone else in the job industry? If so, then this course is for you! You will select a competitive event at the immediate start of the course so you can prepare accordingly in order to place at competition. You will complete activities and projects that will provide you with the most powerful leadership skills while earning merits of recognition known as the Business Achievement Awards (F-Future, B-Business, L-Leader, A-America). The Business Achievement Awards (BAA) is an aggressive, self-directed, results-based business and leadership program designed to complement academics while accelerating your leadership skills. Get signed up for this course right away! It looks great on a job application or resume.

INTRODUCTION TO BUSINESS

0.5 Credit

Have you ever thought of owning your own business someday? Do you consider yourself a leader? Or do you just simply want to know more about the business world and how it works? Make it your business and enroll in this course that will uncover the exciting concepts of the real business world!

INTRODUCTION TO PROGRAMMING

Pre-Requisite: A general understanding of Algebra

0.5 Credit

Interested in understanding the process used to create game programs? Do you enjoy being challenged by complex technology issues? Are you creative? This semester course will provide you with skills necessary to design your own functional computer programs through hands-on practical projects. In addition, students will explore various technological gadgets and apply coding concepts (i.e. Spheros, Ozobots, Mbots, Raspberry Pi, etc.).

MGT105: INTRODUCTION TO BUSINESS

Pre-requisites: Sophomore status; 75% (C) minimum overall GPA

1.0 Credit

Introduction to a variety of business concepts and practices that impact all organizations, as well as the knowledge and skills needed to be successful in an organization. Topics include interpersonal communications, emotional intelligence, economics, accounting, and finance and investments. An integrative approach connects topics and provides context within organizational environments, relevance to current business situations, and advances across various fields of business. 3 Credits (3 Lecture – 0 Lab)



MULTIMEDIA PRODUCTIONS

0.5 Credit

This course is designed to give the student an introductory experience in various multimedia applications. Students will learn to manipulate digital photographs, record audio tracks, edit digital video and create digital animations.

PERSONAL FINANCE

0.5 Credit

Looking to get the most “bang” for your buck? Take this semester course to develop a personal budget, compare cost of living, understand credit, investigate saving and investing options, explore borrowing money, and much more!

SPORTS MARKETING

0.5 Credit

Fascinated by the world of sports and entertainment? This semester course will cover the intriguing world of sports and entertainment from the marketing perspective. Topics covered will include such items as a brief history of sports marketing, the marketing mix, product life cycle, and pricing strategies. In addition, professional guest speakers from major sporting organizations and real world projects will provide students with a hands-on experience!

CAREER & TECHNICAL EDUCATION

All CTE programs are available to 10th, 11th, and 12th grade students and are held at Williamsport Area High School. Tenth or eleventh grade students who are interested will need to complete a separate application in the spring prior to the next school year.

AUTOMOTIVE TECHNOLOGY LEVEL 1

2.0 Credits

This course is designed for students planning to pursue a career in the automotive service industry. Students will first learn about shop safety and how to maintain a safe work environment. Emphasis will be placed on the understanding of a vehicle's brake system, and will include disassembly, cleaning, inspection, measurement, reassembly, and diagnosis. Students will learn the correct use of service information, basic tools, equipment and other industry standards. Along with this, students will also learn how to service and maintain their own automobile including routine maintenance such as oil changes, fluid inspection and top off, tire inspection, tire rotation, and chassis lubrication. Completion of this course will provide students with the prerequisite knowledge and skills for the next level of more in-depth coverage in Level 2 Automotive Technology.

AUTOMOTIVE TECHNOLOGY LEVEL 2

Pre-requisite: Level 1

2.0 Credits

This course is designed for students interested in a career in automotive technology. Instruction will provide students with the knowledge and skills needed to repair and maintain internal combustion engines on vehicles and mobile equipment. Instruction also includes the use of technical manuals, state inspection code, and aspects of hydraulics, electricity, and fluid power.

AUTOMOTIVE TECHNOLOGY LEVEL 3

Pre-requisite: Level 2

3.0 Credits

This is an advanced level course. Students in this class will develop solid mechanical, technical, and systems diagnostics skills. Topics covered will be live hands on activities dealing with Electronics, Advanced Electronics, and Engine Performance. Vehicle computer systems and how they relate / interact with the mechanical parts of the engine will be covered in the course as well. Accessing vehicle repair, diagnostics information as well as Technical Service Bulletins (TSB) from an Internet based site will be applied in the lab setting. Electricity/Electronics, Engine Performance as well as more advanced Brakes, Steering and Suspension will be taught over the course of the year. Students will have the opportunity to take the student Electricity/Electronics and Engine Performance student ASE test at the end of the course. Students will have the opportunity to acquire their Pennsylvania State Safety Inspection License as well as their Pennsylvania Emissions License. Emphasis of this course will be using skills in a practical, real world setting. Students will be put into a variety of roles that will prepare them for the work world. Leadership, working in small groups, taking charge and following the job until completed will be stressed. Specialized skill will be honed to accommodate student specific interest in the transportation field. It will aid students in the decision making process of either going into the field or continuing their career objective in a postsecondary technical school.

BIOTECHNOLOGY LEVEL 1

2.0 Credits

This course is the first of three in the Biotechnology Career and Technology Education program. The course focuses on the application of the biological sciences such as cell biology, microbiology, biochemistry, and genetics in preparation of new and enhanced agricultural, environmental, clinical and industrial products including the commercial exploitation of microbes, plants and animals. Students in this course will experience the procedures, methods, and equipment common to most biotechnology laboratories. Students will use state of the art equipment to learn the principles of scientific investigation as applied to medicine, forensics, agriculture, genetic engineering and environmental health. This program prepares students for occupations such as pharmacy technician, radiological technician, biomedical engineering, forensic scientist, geneticist, clinical researcher and phlebotomist in addition to a wide range of healthcare occupations. Topics covered at this level include a history of the biotechnology industry, career exploration, basic biology & chemistry, introductory biotechnology lab skills, microbiology, bacteria cell cultures, epidemiology and basic forensic science.

This course can count towards the 3 science credits required for graduation.

BIOTECHNOLOGY LEVEL 2

Pre-requisite: Level 1

2.0 Credits

This course is the second of three in the Biotechnology Career and Technology Education program. Students in this course will continue to refine their biotechnology laboratory skills and utilize the protocols learned in the previous course to complete more advanced experimental studies. Topics covered in this course include a study of DNA structure & analysis via gel electrophoresis and plasmid mapping, bacterial transformation & plasmid purification, polymerase chain reaction (PCR) & DNA replication and advanced forensic science. Additionally, students will begin to explore and debate the ethical implications of biotechnology in the 21st century.

This course can count towards the 3 science credits required for graduation.

BIOTECHNOLOGY LEVEL 3

Pre-requisite: Level 2

3.0 Credits

This course is the third of three in the Biotechnology Career and Technology Education program. Students in this course will apply their biotechnology laboratory skills and will utilize the protocols learned in the previous courses to complete more advanced experiments including an independent research project. Topics covered in this course include a study of protein structure & protein analysis and a study of research tools & techniques. Students will conclude their biotechnology career and technology education by performing an independent research project.

This course can count towards the 3 science credits required for graduation.

COMMERCIAL ART LEVEL 1

2.0 Credits

Emphasis will be placed on learning the elements and principles of design, lettering, basic drawing skills, color, perspective, typography and creativity. Students will be introduced to the basic components of Adobe's graphic design software.

COMMERCIAL ART LEVEL 2

Pre-requisite: Level 1

2.0 Credits

Design skills are used in the areas of advertising and design, illustration, page layout, computer graphics and digital photography. Students will continue to enhance drawing skills and be introduced to various drawing mediums.

COMMERCIAL ART LEVEL 3

Pre-requisite: Level 2

3.0 Credits

In addition to continuing the study of design and enhancing learned skills, students will study digital photography, color separation, digital file preparation and output, and portfolio preparation. Students will learn intermediate and advanced components of Adobe's graphic design software. Students will take the PA NOCTI Exam, 6932, at the end of their senior year where they may earn state certification that qualifies for college credit at participating Pennsylvania colleges. Students may further have opportunities to participate in job shadowing experiences and the school co-op program.

**Qualifying students may also earn college credit for the Pennsylvania College of Technology's ART 145: History of Graphic Design course. This course studies the history of graphic design and of the ways in which the past will help students better understand current and future design applications. Emphasis on research of different design movements, such as the Victorian and Art Nouveau Graphics, Postmodern Design, the Arts and Craft Movement, and the computer graphics revolution.*

**As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.*

COMPUTER INFORMATION TECHNOLOGY – COMPUTER REPAIR LEVEL 1

2.0 Credits

This course is designed to give students the skills needed to troubleshoot, repair, upgrade, and maintain computer systems. Students who take this course will develop a solid base foundation for a career within the Information Technology industry. Students learn about all aspects computer components such as installation, configuration, maintenance, and troubleshooting. Networking fundamentals, laptop hardware, printer configuration and maintenance, operating system installation and configuration, security methods, mobile devices, and troubleshooting methods are also covered in this level 1 course. Students taking this course will have the opportunity to prepare for and possibly take the CompTIA A+ certification exam.



COMPUTER INFORMATION TECHNOLOGY – NETWORKING LEVEL 2

Pre-requisite: Level 1

2.0 Credits

This course is designed to give students the skills needed to troubleshoot, repair, upgrade, and maintain network systems. This course focuses on the fundamental concepts of operation, installation, and configuration of the hardware and operating system software for computer networks. Network topologies, protocols, cabling systems, and server operating system software installation and service configuration are covered, with an emphasis on entry-level skills for network professionals. Students taking this course will have the opportunity to prepare for and possibly take the CompTIA Network+ certification exam.

COMPUTER INFORMATION TECHNOLOGY – NETWORKING II LEVEL 3

Pre-requisite: Level 2

3.0 Credits

This course is designed to develop, strengthen and extend the computer repair and networking skills students acquired in the L1 and L2 Computer Information Technology courses. The first two semesters of this course will focus on more in depth networking skills and concepts, which include, but are not limited to, server management, network security, and WAN technologies. The last two semesters of this course focus on industry certification preparation and project based learning opportunities such as job shadowing, internship, employment or community service.

CONSTRUCTION TRADES LEVEL 1

2.0 Credits

This course is the first in a series of three in the Construction Trades Career and Technical Education program. The course will give students the opportunity to learn and master skills relevant to the standards of the construction industry. Areas covered in level 1 are hand and power tool safety, construction math, blueprint reading, site layout, block laying, concrete finishing and framing with an emphasis on rafter layout and stairs.

This course is taught in accordance with Pennsylvania College of Technology's BCT103: Construction Hand and Power Tools. This course is a survey of hand and power tools typically used to perform construction work. Emphasis on the development of the skills needed to effectively perform layout, measurement, cutting, fastening, and finishing operations. Study also includes maintenance of tools and equipment, safe use of hand tools, and emerging tool technology.

CONSTRUCTION TRADES LEVEL 2

Prerequisite(s): Level 1 Construction Trades and passing of OSHA 10

Certification in L1

2.0 Credits

This course is for students enrolled in the Construction Trades CTE program and is divided into two main components: Residential Structures and Utilities and Structural Finishing. In Residential Structures, the students will learn and practice the skills and techniques used in the construction of residential homes. Floor, Wall, Ceiling, and Advanced Roof Framing along with Interior and Exterior finishing will be covered. In Utilities and Structural Finishing, the students will learn and practice the skills and techniques used for installation of utilities and finish work in residential structures. Practical hands-on experience will be gained in electrical and plumbing aspects of residential construction



This course is taught in accordance with Pennsylvania College of Technology's BCT109: Framing Principles. Theory and application of framing techniques in residential and light commercial construction. Emphasis on basic principles and skills used in hand and machine woodworking operations.

CONSTRUCTION TRADES LEVEL 3

Pre-requisite: Level 2

3.0 Credits

This is an advanced level course for career and technical students enrolled in the Construction Trades program. Students will learn and practice skills in masonry, carpentry, electrical wiring and plumbing to prepare for the state competency evaluation.

CULINARY ARTS LEVEL 1

2.0 Credits

Level 1 Culinary Arts is an introductory course designed for students interested in the food and hospitality industry. Students will gain hands on experience learning the skills and knowledge needed to be successful in the food and hospitality industry. Students will learn and practice basic safety and sanitation, cooking methods, service techniques, and possible employment opportunities.

CULINARY ARTS LEVEL 2

Pre-requisite: Level 1

2.0 Credits

Instruction in Level 2 Culinary Arts is designed to advance students practice in the food and hospitality industry. Based on Level 1 Culinary Arts students will continue to prepare for culinary school and or post-secondary school employment in the food and hospitality industry. Students will experience different phases of the kitchen brigade while operating the Millionaire Café and catering other events in the school. Students will prepare a career portfolio for use after graduation as well as complete an extensive management project covering all aspects of the food and hospitality industry.

CULINARY ARTS LEVEL 3

Pre-requisite: Level 2

3.0 Credits

Level 3 Culinary Arts practices mastery of running a successful kitchen and dining room. Upon completion of this course students will be able to solely plan and manage their own Millionaire Café. Requirements include planning, purchasing, managing, production, service, costing, safety and sanitation. Students will also focus on a wide variety of baking techniques and methods used in the food and hospitality industry.

EARLY CHILDHOOD EDUCATION LEVEL 1

2.0 Credits

This is the first in a series of three-year courses for the Early Childhood Career and Technical Education program. The topics covered in this course are health and safety in the childcare setting and principles of child development and learning.

EARLY CHILDHOOD EDUCATION LEVEL 2

Pre-requisite: Level 1

2.0 Credits

This is the second in a series of three-year courses for the Early Childhood Career and Technical Education program. The topics covered in this course are advancing children's physical and intellectual development, supporting children's social and emotional development, managing a childcare program, and observing and recording children's behavior. This course also includes hands-on experiences with young children in a laboratory pre-school setting.

EARLY CHILDHOOD EDUCATION LEVEL 3

Pre-requisite: Level 2

3.0 Credits

This is the third in a series of three-year courses for the Early Childhood Career and Technical Education program. The topics covered in this course are strategies to establish productive relationships with families and maintaining a commitment to professionalism. This course is an overview of typical growth and development of young children from birth to age eight. Cognitive, language, physical growth, gross and fine motor, emotional and social developmental milestones are the focus of this course, with a special emphasis on the implications they have for the care and education of young children. Other topics include an introduction to the basic concepts of major developmental theories; principles of learning and development; and developmentally appropriate practice. A strong focus on a family-centered approach is integrated throughout the course.

ENGINEERING & ROBOTICS LEVEL 1

Prerequisite(s): Successful completion of Algebra I

2.0 Credits

This course is the first of three double-period courses required for the completion of the CTE Engineering and Robotics program. This course will introduce students to a broad range of engineering technology topics such as programming, robotics, magnetism, motors and AC and DC circuit analysis. The fundamental skills and knowledge required in many types of careers in the electronics/electrical engineering technology fields will be discussed, including the technologies utilized in industry. Emphasis on the importance of ethical behavior and responsible attitude in the workplace is also a component of the course. A strong background in math, science, and technical writing will increase the student's success.



** Course is taught in accordance with Pennsylvania College of Technology's EET 124: Introduction to Engineering Technology. Introduction to the basic concepts and applications of computer and engineering technologies and the effects on professional and casual users, their employers and employees, and society. Applied skills include the use of current computer technology for data/information collection and organization; visualization, analysis, and interpretation of numeric computations; and the dissemination and presentation of solutions to engineering technology problems.*

**As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.*

ENGINEERING & ROBOTICS LEVEL 2

Prerequisite(s): Level 1

2.0 Credits

This course is the second of three double period courses required for the completion of the CTE Engineering and Robotics program. This course begins where Level 1 Automation and Controls ended. Students will learn AC and DC circuit analysis, computer circuit simulation, robotics, capacitance, pneumatics, hydraulics, motor control, PLC programming, mechanical drives, and digital electronics.

ENGINEERING & ROBOTICS LEVEL 3

Prerequisite(s): Level 2

3.0 Credits

This is the final course required for the completion of the CTE Engineering and Robotics program. In this course, students will learn process control, the integration of different systems, drafting skills, project organization, robotics, and microcontrollers. Students will also work together to design and create a class project that incorporates many of the skills learned throughout the 3 levels of Engineering and Robotics.

HEALTH OCCUPATIONS LEVEL 1

2.0 Credits

This is the first in a series of three- year courses for the Health Professions Career and Technical Education program. The topics covered in this course include: Promotion of Safety, History and Trends of Health Care, Health Care Systems, Careers in Healthcare, Personal and Professional Qualities of a Health Care Worker, Legal and Ethical Responsibilities in Health Care, Computers and Technology in Health Care, Human Growth and Development, Cultural Diversity, Nutrition and Diets, and Introduction to Infection Control. Medical Terminology will be embedded within this course as it relates to the topics covered.

This course can count towards the 3 science credits required for graduation.

HEALTH OCCUPATIONS LEVEL 2

Prerequisite: Level 1

2.0 Credits

*This is the second in a series of three-year courses for the Health Professions Career and Technical Education program. The topics covered in this course include: Anatomy and Physiology of the Human Body, Geriatric Care, Medical Math, Vital Signs, and First Aid and Infection Control. Medical Terminology will be embedded within this course as it relates to the topics covered. *Recognizing & Reporting Child Abuse Certification and PA DHS Personal Home Care Direct Training/Adult Residential Care Licensing will be available during the course.*

This course can count towards the 3 science credits required for graduation.

HEALTH OCCUPATIONS LEVEL 3

Prerequisite: Anatomy and Physiology; Levels 1 and 2

3.0 Credits

*This is the third in a series of three-year courses for the Health Professions Career and Technical Education program. The topics covered in this course are directly related to specific Mountie Pathway including: Dental Assistant Skills, Laboratory Assistant Skills, Medical Assistant Skills, Nurse Assistant Skills, Physical Therapy Skills, and Business and Accounting Skills. Preparing for the World of Work is also presented which includes cover letters, developing a resume, completing job application forms, job interviewing skills, determining net income and calculating/balancing a budget. *OSHA 10-Hour General Industry (Health Care) Certification and AHA Health Care Provider CPR Certification will be available during this course.*

This course can count towards the 3 science credits required for graduation.

HOMELAND SECURITY LEVEL 1

2.0 Credits

This is the first in a series of three-year courses for the Homeland Security Career and Technology Education program. This program stresses the techniques, methods and procedures specific to the areas of criminal justice and fire protection 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, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication. This program prepares students to apply technical knowledge and skills required to perform entry-level duties in law enforcement, firefighting, EMT and other safety services.

HOMELAND SECURITY LEVEL 2

Pre-requisite: Level 1

2.0 Credits

This is the second in a series of three-year courses for the Homeland Security Career and Technology Education program. This program stresses the techniques, methods and procedures specific to the areas of criminal justice and fire protection especially in emergency and disaster situations. L2 Homeland Security will teach Law Enforcement techniques that are used when responding to emergency calls, conducting traffic stops, and performing crime scene investigations. 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, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication. This program prepares students to apply technical knowledge and skills required to perform entry-level duties in law enforcement, firefighting, EMT and other safety services.

PRECISION MACHINING LEVEL 1

2.0 Credits

Level 1 Precision Machining is the first of three levels designed to prepare students for a variety of careers in manufacturing or engineering by learning how to operate and program metalworking machines to

produce complex, highly detailed parts. The following are examples of fields students might choose to pursue following program completion: manufacturing/production, machinery maintenance & repair, production/manufacturing/process engineering, machinist/tool & die maker, prototype development, machine design, CNC programmer, etc. Many of the skills students learn in this program can be applied in a wide variety of career areas, an added bonus in tough economic times. Students will learn to operate various lathes, mills, drills, saws and grinders to produce accurate parts according to blueprint dimensions. Students will also gain exposure to CNC machining and other metalworking processes (on a limited basis) such as welding, forging and foundry operations. Students will constantly utilize reference materials and formulas to solve practical problems in the shop. Students will apply a variety of complex, precise tools to measure parts down to one ten-thousandth of an inch! Program completion will require students to make certain parts to specifications developed by the National Institute of Metalworking Skills (NIMS), as well as to take proctored online exams through NIMS. These are nationally recognized, industrial credentials, earned while in high school.

PRECISION MACHINING LEVEL 2

Pre-requisite: Level 1

2.0 Credits

Level 2 will focus on more advanced operation of machine tools toward the completion of NIMS credentials. Students will use CAD-CAM software (Solidworks, AutoCAD, & Fusion 360) and gain more experience with CNC machine tools. At this level students will be comfortable with most of the machines in the shop and are encouraged to create complex projects, mechanisms, jigs and fixtures, etc.

PRECISION MACHINING LEVEL 3

Pre-requisite: Level 2

3.0 Credits

Level 3 will focus on completing more NIMS credentials and when possible, preparing students for a particular field of interest, since the curriculum can be applied to so many different industries. Students showing a particular interest in a field of study will be encouraged to apply the curricular goals of the program toward applications common to that industry in preparation for employment. Our Advisory Committee has expressed a great deal of interest in recruiting qualified students for positions of local employment within the manufacturing industry. Opportunities for job-shadowing, apprenticeships and earning college credit in exchange for NIMS credentials can be a reality for those who strive to achieve the most from this program.

WELDING LEVEL 1

2.0 Credits

This course is designed to offer students basic skills of welding. Covered in this introductory course will be oxygen/acetylene welding, cutting, plasma arc cutting and grinding. Safe procedures and work habits used in the welding industry are taught and required from the students.



** Course is taught in accordance with Pennsylvania College of Technology's WEL114/116: Shielded Metal Arc I & II.*

WEL114: Introduction to the principles and practices of basic Shielded Metal Arc Welding (SMAW) using various types of mild steel electrodes in multiple positions with emphasis put on the flat and horizontal positions. The fundamentals of AC and DC current and various types of power sources are covered. (2 credits)

WEL116: The theory introduced in WEL 114 will be applied in this course. Development of practical hands-on techniques with various power sources using AC and DC current in multiple positions with the emphasis on the flat and horizontal positions. (2 credits).

**As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.

WELDING LEVEL 2

Pre-requisite: Level 1

2.0 Credits

This course is designed to build on the principles that were taught in Welding I (92510). The students will weld both ferrous and nonferrous metals with this process and will learn how to correctly weld joints of different configurations, while it is in different positions (flat, horizontal, vertical, overhead). Other covered areas of welding include, blueprint reading and weld symbols. Safe procedures and work habits used in the welding industry are taught and required from the students. (Dual enrollment for grades 11 and 12 only)

* Course is taught in accordance with Pennsylvania College of Technology's WEL120/124: Gas Metal Arc I & II.

WEL120: Principles and applications of Gas Metal Arc Welding (GMAW) applied to various metals. An introduction to single and multi-pass welds using a variety of electrode wire types, diameters, and transfer modes. (2 credits)

WEL124: Continued laboratory practice of Gas Metal Arc Welding (GMAW) introduced in WEL120. Activities include fundamental applications on ferrous metals in all positions using various modes of metal transfer and wire electrodes. (2 credits).

**As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.

WELDING Level 3

Pre-requisite: Level 2

3.0 Credits

This course is designed to build on the principles that were taught in Welding I (92510) and Welding II (92520), and will incorporate the welding processes that most industries demand. The students will weld both ferrous and nonferrous metals with these processes and will learn how to correctly weld joints of different configurations, while it is in different positions (flat, horizontal, vertical, overhead). Other covered areas of welding include, blueprint reading and weld symbols. Also covered procedures will include Submerged Arc Welding (SAW) and Air Carbon Arc Cutting (CAC-A). Safe procedures and work habits used in the welding industry are taught and required from the students.



** Course is taught in accordance with Pennsylvania College of Technology's WEL123/129: Gas Tungsten Arc I & II. WEL123: Introduction to the Gas Tungsten Arc Welding (GTAW) process. Theory is applied to related equipment, electrical concepts, material properties, arc characteristic, puddle control, and appropriate application of filler materials. Welding of ferrous and non-ferrous metals in all positions is covered. (2 credits)*

WEL129: Laboratory activities, with emphasis on the welding of ferrous and non-ferrous metals in various joint configurations. Welding will be done using all positions. Joining dissimilar metals and metal identification is covered. (2 credits)

***As a dual enrollment course, students must adhere to all Penn College NOW course expectations and demonstrate proficiency in reading.*

ENGLISH

All English courses will include Mountie Pathways-oriented writing instruction and assessment in these areas: reports and summaries, resumes and cover letters, research and analysis, and business/professional email, test, letter, and proposal formats.

ADVANCED ENGLISH 9

1.0 Credit

Designed to challenge and motivate students who possess the potential to excel in language arts, Advanced English 9 has been designed for those committed to completing a four-year advanced program culminating in Advanced Placement English Literature and Composition. In addition to mastering an intensive vocabulary program, students will study literature including a Shakespearean play, several novels, short stories and poetry. Students will also develop their ability to write effectively different kinds of essays.

AMERICAN LITERATURE 1

0.5 Credit

A survey of precolonial literature (1600-1900) through the end of the 19th century. Authors range from Franklin, Jefferson, Emerson, Thoreau, through Dickinson and London. It covers historical nonfiction, fiction and poetry. Recommended for students intent on taking college level literature courses.

AMERICAN LITERATURE 2

0.5 Credit

A survey of 20th century literature (1900-present). Authors range from Frost, Cather, Steinbeck, Faulkner, through Wright and Updike. It covers nonfiction, fiction, and poetry. Recommended for students intent on taking college level literature courses.

AMERICAN PLAYS

0.5 Credit

A semester of famous works by American playwrights. Playwrights include Arthur Miller, Lorraine Hansberry, and Thornton Wilder. The course will focus on the thematic content and literary devices used by the authors.

AMERICAN POETRY

0.5 Credit

Based on the anthology, 101 Great American Poems, and supplemented with other sources, for the appreciation of the art of poetry. Poets include Poe, Whitman, Longfellow, Dickinson, and Frost. The course will focus on the thematic content and literary devices used by poets. Recommended for fans of poetry.

AP ENGLISH LITERATURE AND COMPOSITION

Pre-requisite: 90% or above in previous English courses; summer assignments

1.0 Credit

This course is designed to prepare students to take the AP exam in Literature and Composition. Students who take this examination and score proficiently may be able to use this score as a replacement for a freshman English course in college. This class includes major



works by Shakespeare, Camus, Woolf, Dillard and many others. In addition to novels and plays, students will read a great deal of poetry, many short stories, and a few essays. Reading, analyzing, and responding in writing to the works of classic authors is the thrust of this course. Students taking this class will be challenged to improve on essay structure and content and to master upper-level vocabulary. They will have the opportunity to hone their critical thinking, reading, and writing skills, which should prepare them for the rigors and expectations of the college classroom.

If the student does not complete these required summer assignments the student will be asked to leave the class. This is a content-driven course. Therefore, students enrolled in this course are expected to keep pace. Additional details about the AP English course are available upon request. Please contact either the English department chairperson or your child's school counselor.

BIOGRAPHIES

0.5 Credit

A course that focuses on the nonfiction genre. This includes biographies, profiles, diaries, letters, critiques, and reviews. Texts include but are not limited to *Tuesdays with Morrie* and *Narrative in the Life of Frederick Douglass*.

BUSINESS WRITING & COMMUNICATIONS

0.5 Credit

In today's personal and professional world, communication is one of the most vital skills to develop. Your effectiveness in communicating ideas, feelings, instructions, and thoughts are key to your success, especially in business. Business Communication is designed to introduce you to skills and practices that will help you communicate and develop communication strategy for yourself in business and/or for your business and your clients/stakeholders. In this class, students learn about how to write more effectively and use a clear and direct voice in business communications. Documents covered include resumes, business memos, proposals, and brochures as well as the use of email. This course will include writing reports and summaries requiring research and analysis of texts, websites, and other materials deemed necessary.

COMPOSITION

0.5 Credit

This course is highly recommended not only as a college preparatory course, but as a course designed to sharpen writing skills for any future vocation. This course will consist of essays based on accompanying readings including Classification, Comparison and Contrast, Process Analysis, Induction and Deduction, and Patterns of Argument (Persuasive). Objectives include improving clarity in reading comprehension and writing precision; understanding a writer's specific audience and how to construct one's writing to that audience; and to explain and/or persuade an audience. Activities include outlining, rough drafts, peer editing, and final drafts.

ENGLISH 9

1.0 Credit

English 9 will consist of material based on the Common Core Standards for 9th grade students. Students will use evidence from texts to support analysis, reflection, and research. Students will organize writing into clear, coherent, well-developed paragraphs and essays while keeping in mind both audience and purpose. Students will read closely to determine not only what the text states explicitly, but also the

themes and logical inferences within the works. Vocabulary will be studied, along with novels, short stories, poems, and plays. The end-of-course exam will be the Literature Keystone.

FROM LITERATURE TO FILM

0.5 Credit

This class will involve reading classic novels and scrutinizing their adaptation to the screen. While students read a novel, they imagine the characters, setting, and action taking place. This class allows students to use their imaginations in the form of a storyboard. Students first read a book that has a complementary film adaptation. They then learn about adaptation by writing short paragraphs and adapting them for film using storyboards. Once they have evaluated the adaptations, the students will create their visions of the books and compare them to the film. This course will include writing reports and summaries requiring research and analysis of texts, websites, and other materials deemed necessary.

INTERNATIONAL LITERATURE

0.5 Credit

This class will examine texts from various world cultures, from Africa, to Asia, to South America. These novels and short stories will expose students to genres and themes from foreign perspectives and distant lands. The goal of this course is to broaden students' perspectives and relate the American experience to those of cultures around the world. Class work will include projects and writings that explore the perceptions of a wide range of world-experiences. This course will include writing reports and summaries requiring research and analysis of texts, websites, and other materials deemed necessary.

LITERATURE OF HORROR

0.5 Credit

A survey of the popular horror genre, starting with Poe short stories, the classics of Frankenstein, Dracula, and The Strange Case of Dr. Jekyll and Mr. Hyde. It will be supplemented with modern titles such as those by King. Recommended for fans of the genre.

LITERATURE OF SOCIAL JUSTICE

0.5 Credit

A survey of historical novels and dramas that expose social injustice and inequity. Recommended for students intent on understanding and improving the human condition through the political process.

LITERATURE OF WAR

0.5 Credit

Perhaps the oldest genre in literature, stories of war stretch back to ancient times. This course takes a more modern look at the words of war. Beginning with the Civil War and stretching to modern day non-fiction, this course examines how war, its combatants and its victims, its causes and its consequences, have been portrayed over the last 150 years. This course will include writing reports and summaries requiring research and analysis of texts, websites, and other materials deemed necessary. Assignments will include projects and essays related to the texts as well as up-to-date news and magazine articles.

SCIENCE FICTION

0.5 Credit

Science fiction is a genre of fiction in which the stories often tell about science and technology of the future. It is important to note that science fiction has a relationship with the principles of science—these stories involve partially true- partially fictitious laws or theories of science” (www.readwritethink.org). This class blends science with literature in a curious combination. Along with reading classic sci-fi, the class also takes a cursory look at the social science, science, and technology behind the stories, from tyranny to astronomy to robotics. This course will include writing reports and summaries requiring research and analysis of texts, websites, and other materials deemed necessary.

SHAKESPEAREAN COMEDIES

0.5 Credit

A semester of romantic comedies including *Twelfth Night*, *Much Ado About Nothing*, *A Midsummer Night’s Dream*, and *The Taming of the Shrew*. Recommended for fans of Shakespeare and college bound students.

SHAKESPEAREAN TRAGEDIES

0.5 Credit

A semester of famous tragedies including *Romeo and Juliet*, *Macbeth*, *Hamlet*, and *Julius Caesar*. Recommended for fans of Shakespeare and college bound students.

SHORT STORIES

0.5 Credit

A survey of great short stories of world literature, including titles from Maupassant, Poe, London, Saki, Thurber, and O. Henry. Myths and legends will supplement. The focus will be on character and plot development along with thematic content. Recommended for fans of the genre.

SPEECH COMMUNICATIONS

0.5 Credit

The communications course is an elective available to all students in grades 10-12 who want to improve upon formal speaking skills. Students present a wide variety of speeches ranging from informative and persuasive to impromptu and demonstration. All students find this an excellent introduction to the basics of public speaking and are able to develop a strong sense of confidence in speaking in and out of the classroom.

UTOPIAN/DYSTOPIAN LITERATURE

0.5 Credit

This course in political and critical theory focuses around the diverse literature and thought identified broadly as utopian and/or dystopian. We will look at and view to utopian and dystopian novels and films as theoretical texts. The purpose of the course is to expose students to a variety of literary and critical works, and to examine utopian and dystopian thought from the perspective of political, social, and cultural perspectives. This course will include writing reports and summaries requiring research and analysis of texts, websites, and other materials deemed necessary.

YEARBOOK

1.0 Credit

Yearbook is journalistic in nature and allows students to participate in the production of the school yearbook. Students in this course are required to learn layout design; write and fit copy, captions, and headlines; sell advertisements; learn basic photography skills; and should be proficient on a computer. Individual responsibility is essential toward completion of assignments for deadlines. Students will also have the opportunity to accept leadership positions and develop new skills as they build the yearbook.

FAMILY & CONSUMER SCIENCE

Family and Consumer Science education's mission is to manage, with reason and creativity, the challenges across the lifespan of living and working in a global society.

CHILD DEVELOPMENT

0.5 Credit

Students will study the development of children, ages one through six, in all four areas of development. This course explores existing research on child development as well as new brain development research. Students will be introduced to career opportunities in the childcare field and the skills and interests necessary to work with children. We will explore the importance of reading to young children and children's literature. Nutritional needs of young children and disciplining young children will also be addressed. Students will have the opportunity to practice learned skills through hands-on activities with children.

CREATIVE FOODS

Pre-requisite: Fundamentals of Foods or Meal Planning and Preparation

0.5 Credit

Students will express their creative skills in the kitchen as we learn more about baking and decorating. They are responsible to create individual and group projects. We will also learn about other regions of our country as well as other cultures around the world through the world of food.

FUNDAMENTALS OF FOODS

0.5 Credit

Fundamentals of Foods is an introductory course for students who are interested in learning to prepare nutritious and appealing food for themselves and their families. Basic food preparation techniques will be learned as we learn to cook with various foods. Proper sanitation and measuring techniques will be emphasized.

INFANT DEVELOPMENT

0.5 Credit

Students will study human development from conception through age one. Areas of study include prenatal development, hereditary and environmental birth defects, nutrition and complications during pregnancy, social, emotional, physical, and intellectual development during an infant's first year. Students will analyze issues in health and safety at this stage of development.

MEAL PLANNING AND PREPARATION

0.5 Credit

Meal Planning and Preparation reviews basic food preparation techniques and builds on the skills learned in Fundamentals of Food. The students will expand their knowledge of nutrition by applying meal planning principles in the selection, planning, preparation, and serving of meals that meet the nutritional needs of individuals across the lifespan. They will also explore education and career opportunities in the food service field.

QUILTING

0.5 Credit

Students will apply color and design elements and will develop their sewing skills as they construct a quilt. Basic skills are developed in this hands-on course. All students will complete at least one finished product. Students are responsible for costs of supplies.

FOREIGN LANGUAGE

FRENCH I

1.0 Credit

Students are introduced to the four language proficiencies of listening, speaking, reading, and writing. Emphasis is placed on vocabulary acquisition and the formation of basic sentence patterns. Students are also introduced to French geography, customs, and culture.

FRENCH II

Pre-requisite: French I

1.0 Credit

The language skills of listening, speaking, reading, and writing from French I are reinforced and expanded appreciably. Emphasis is placed on expansion of verb and tense usage. Additional cultural activities that foster a familiarity with Paris are presented. Students are encouraged to express themselves through situational scenarios.

FRENCH III

Pre-requisite: French II

1.0 Credit

This course provides a thorough review of grammar from previous levels. Additional tenses and complex grammar structures are emphasized. Cultural activities center on the French influence in the United States and a comparative study of the major regions in France. Reading and writing in the target language are required. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

FRENCH IV

Pre-requisite: French III

1.0 Credit

Oral and written skills continue to be developed. Oral participation is encouraged by short class presentations on situational, cultural, or historical topics. Students read selections that pertain to French history and representational literature. Authentic documents such as newspaper articles and periodicals also comprise the reading material. Grammar principles and verb tenses are reviewed and expanded. Current social and political issues are discussed. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

SPANISH I

1.0 Credit

This Spanish course is a Comprehensible Input Spanish class. In particular, we will use the TPRS (Teaching Proficiency through Reading and Storytelling) method of language instruction. Class time will be spent using Spanish--not using English to talk about Spanish—as much as possible. The primary focus will be on listening and reading, and the secondary focus will be on speaking and writing. Those skills will come naturally as you consume more and more Spanish by listening and reading. We will focus our class time on the acquisition of high frequency structures (the most frequently used words in a language). We will use these structures in class discussions, stories, and cultural explorations. You will be expected to

recognize them when you read or hear them and be able to produce them in speech and writing. Before the year ends, we will read a novel together as a class.

SPANISH II

Pre-requisite: Spanish I

1.0 Credit

This Spanish course is a Comprehensible Input Spanish class. In particular, we will use the TPRS (Teaching Proficiency through Reading and Storytelling) method of language instruction. Class time will be spent using Spanish--not using English to talk about Spanish—as much as possible. The primary focus will be on listening and reading, and the secondary focus will be on speaking and writing. Those skills will come naturally as you consume more and more Spanish by listening and reading. We will focus our class time on the acquisition of high frequency structures (the most frequently used words in a language). We will use these structures in class discussions, stories, and cultural explorations. You will be expected to recognize them when you read or hear them and be able to produce them in speech and writing. We will read novels together as a class, as well as individually.

SPANISH III

Pre-requisite: Spanish II

1.0 Credit

We continue improving our Spanish skills through Comprehensible Input, with an increased focus on class discussions, novels, cultural explorations and writing. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

SPANISH IV

Pre-requisite: Spanish III

1.0 Credit

We continue improving our Spanish skills through Comprehensible Input, with an increased focus on class discussions, novels, cultural explorations and writing. It is strongly advised that students enrolling in this course have an average of 85% or better in previous foreign language classes.

MATHEMATICS

ALGEBRA I

1.0 Credit

Algebra I is the fundamental course needed to advance into other branches of mathematics. The discovery of mathematical principles and the development of concepts are stressed as the fundamental operations of elementary Algebra are mastered. Students work with the real number system; operations in real numbers, including signed numbers; open sentences in one or two variables; graphing; equation solving; polynomials and factoring; operations with fractions. The Keystone Exam for Algebra serves as the final exam for this course.

ALGEBRA II

Pre-requisite: Algebra I, Geometry

1.0 Credit

This course will continue the study of algebra that began in Algebra I and will include such topics as higher-order equations and the complex number system.

ALGEBRA II ADVANCED

Pre-requisite: Strongly advised students average of 85% or above in Advanced math courses; Summer assignments

1.0 Credit

This is the third course in the honors math sequence. It will continue the study of algebra concepts and theory, and will include the study of non-linear equations and the complex number system. It is strongly advised that students enrolling in this course have an average of 85% or above in Honors Algebra I and Honors Geometry.

AP CALCULUS

Pre-requisite: Strongly advised students average of 85% or above in Advanced Trigonometry; Summer assignments

1.0 Credit

This course will consist of the three major concepts of calculus: limits, derivatives, and integrals. The course will provide an in-depth study of these concepts. Emphasis will be placed on computation, mathematical theory, and applications. This course will follow the College Board guidelines for AP Calculus AB, and students will be prepared to take the AP Calculus Exam in May. Further obligations for this course include extensive summer assignments required to be completed by the first day of class. Failure to complete the mandatory summer assignments will result in dismissal from the AP course.



APPLIED ALGEBRA I

1.0 Credit

This non-academic course will study topics relevant to everyday needs and will introduce elementary concepts of algebra and their practical applications. This course is only for students who scored Basic or Below Basic on the PSSA exam.

APPLIED ALGEBRA II

1.0 Credit

This is the third non-academic course in the applied math sequence and will continue the study of algebra topics, their practical applications, and topics relevant to everyday needs. This course is only for students who scored Basic or Below Basic on the PSSA exam.

APPLIED GEOMETRY

1.0 Credit

This is the second non-academic course in the applied math sequence and will stress the concepts of geometry as they apply to everyday life. This course is only for students who scored Basic or Below Basic on the PSSA exam.

COLLEGE PLACEMENT EXAM PREPARATION

Pre-requisite: Counselor interview and approval

0.5 Credit

This course is for seniors that have struggled to achieve a high score on the SAT and will most likely will be required to take an early college placement exam. It will highlight major topics from Algebra I and II, Geometry, Trigonometry, and various other topics that many colleges test students on before scheduling classes.

GEOMETRY

Pre-requisite: Algebra I

1.0 Credit

This course is the study of the properties of plane and solid figures that are important in the development of modern civilization. Emphasis is placed upon the development of a postulation system and the deductive method of proof of Euclidean postulates.

GEOMETRY ADVANCED

Pre-requisite: Strongly advised students average of 85% or above in Advanced Algebra I

1.0 Credit

This is the second course in the honors math sequence. Geometry is the study of the properties of plane and solid figures that are important in the development of modern civilization. Emphasis is placed upon the development of a postulation system and the deductive method of proof of Euclidean postulates. It is strongly advised that students enrolling in this course have an average of 85% or above in all previous advanced math courses.

MATH SAT PREPARATION

0.5 Credit

Do you want to improve your SAT score? If you are not sure of the correct answer, should you guess? In this class you will learn shortcuts, strategies, mathematical insights and critical-thinking skills to help you prepare for the test and improve your scores! Your strengths and weaknesses will be analyzed to focus on where you need remediation and you will monitor your progress! This class will provide a complete review of the material in the mathematics portion of the SAT focusing on reasoning and problem solving skills in

four categories: arithmetic, algebra, geometry, and other topics. We will focus on ways to increase your speed, accuracy and problem solving skills! Let's raise those scores! Recommended for students in grade 11.

PERSONAL MATHEMATICS

0.5 Credit

This course will deal with different topics which are useful in the lives of many each day. Reconciling bank statements, filing taxes, loans, and credit. There will be sections on measurements and volumes, as they deal with home improvements. Estimating and costing out items such as paint, drywall, flooring, car expenses and home ownership as well. It is meant to show how math is used in many walks of life and by everyone to some extent. Suggested for grades 11 and 12.

PRE-CALCULUS

Pre-requisite: Strongly advised students average of 85% or above in Advanced Trigonometry

0.5 Credit

This course will pick up where Advanced Trigonometry left off and explore the topics of higher-order polynomials and equations, logarithms and exponential functions, sequences and series, and then continue into the study of Calculus. It is strongly advised that students enrolling in this course have an average of 85% or above in Advanced Trigonometry.

STATISTICS

Pre-requisites: Algebra I, Geometry, and Algebra II

0.5 Credit

This course is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will analyze and present real-world business applications data using multiple representations and various technologies. Recommended for students in 11th and 12th grade.

TRIGONOMETRY

Pre-requisites: Algebra I, Geometry, and Algebra II

0.5 Credit

This course is for those students who have completed two years of Algebra and one geometry course. Topics that will be covered include the basic trig functions, graphing, polar coordinates, vectors, triangle solution and the applications of these topics.

TRIGONOMETRY ADVANCED

Pre-requisite: Strongly advised students average of 85% or above in Advanced math courses

1.0 Credit

This is the fourth course in the advanced math sequence. It will include traditional trigonometric topics such as the unit circle, trigonometric functions, circular functions, graphing, and sinusoidal equations. Also included will be advanced topics such as mathematical induction, sequences and series, logic, logarithms and exponential functions, and higher-order polynomials and equations. It is strongly advised that students enrolling in this course have an average of 85% or above in all previous advanced courses.

MANSFIELD UNIVERSITY EARLY START PROGRAM

The Early Start Program (ESP) allows high school students to take online, college-level courses taught by professors from Mansfield University. Students earn college and high school elective or core requirement credit. Courses below are listed are for the Fall 2020 semester. Registration for these classes opens in the Spring and requires the completion of an online application, as well as approval from your school counselor.

AMERICAN FAMILY SYSTEMS (SOC 2232-190)

3.0 College Credits

Instructor: Dr. Janice Purk

An examination of the diversity of marriage and family life in American society as reflected in changing social conditions and social policies. Focus is given to social and economic justice and populations at risk, including the identification and function of values, norms, and codes relevant to marriage and family decision making.

This course is required by the A.A.S. Health Education, B.S.E. Early Childhood and Elementary Education, and the B.S.W. Social Work degree programs. SOC 2232 is also a general education course at Mansfield University.

COMPOSITION I (ENG 1112-190)

3.0 College Credits

Instructor: Dr. Brad Lint

Intensive reading and writing of expository prose. Analytical and critical thinking and college-level research skills are emphasized.

This course is required by all degree programs.

DIVERSITY AND SOCIAL JUSTICE (SWK 2500-190)

3.0 College Credits

Instructor: Dr. Mary Daly

This online course increases awareness, knowledge, and understanding of issues related to diversity, human rights, and social and economic justice. Students will examine the history of social welfare and the social work profession's response to the oppression of at-risk groups. Personal and interpersonal connections to power and privilege are explored. Topics include race and racism, classism, sexism, ableism, and youth and elder oppression.

This course is required by the A.A.S. Health Education, A.S. Substance Use and Behavior Disorder Counseling and the B.S.W. Social Work degree programs.

INTRODUCTION TO ART (ARH 1101-190)

3.0 College Credits

Instructor: Mr. Adam Veil

An approach to the dominant movements and ideas of the Western World as they evolved in visual arts from cave art origins to the present.

This course is required by the B.A. Art History and B.S. Graphic Design degree programs. ARH 1101 is also a general education course at Mansfield University.

INTRODUCTION TO BUSINESS AND MANAGEMENT (BUS 1130-190)

3.0 College Credits

Instructor: Dr. David Solan

Studies an overview of the broad concept of business functions. Provides a foundation for understanding the relationships among essential activities of business. Helps students to determine and pursue their areas of interest and aptitude.

This course is required by the A.S. Business Administration, all B.S. Business Administration concentrations (Accounting, Management and Marketing) and the B.M. Music: Music Business degree programs.

INTRODUCTION TO CRIMINAL JUSTICE (CJA 1100-190)

3.0 College Credits

Instructor: Dr. Justin Crawl

An introduction to the field of criminal justice and its major components, roles and functions. Emphasis is placed upon concepts of law and the historical descriptive analysis of the police, courts, and corrections.

This course is required by the A.S. and B.S. Criminal Justice Administration degree programs.

INTRODUCTION TO GENERAL PSYCHOLOGY (PSY 1101-190)

3.0 College Credits

Instructor: Dr. Francis Craig

Designed to familiarize students with the application of scientific psychology to human life. Emphasis is on "normal" behavior and its antecedents. Includes the study of broad categories of human behavior through various psychological models.

This course is required by the following degree programs: A.A.S. Health Education, A.A.S. Radiologic Technology, B.S. Respiratory Care, B.S. Community Health Education, B.S.Ed. Early Childhood Education, B.M. Music Education, B.S.N. Nursing, B.S.Ed. Professional Studies in Secondary Education (all concentrations), and B.S. Psychology (all concentrations). PSY 1101 is also a general education course at Mansfield University.

INTRODUCTION TO LITERATURE (ENG 1115-190)

3.0 College Credits

Instructor: Ms. Marissa Scott

Introduction to reading poetry, fiction, and drama for understanding and enjoyment.

ENG 1115 is a general education course at Mansfield University.

INTRODUCTION TO SOCIOLOGY (SOC 1101-190)

3.0 College Credits

Instructor: Dr. Tim Madigan

Introduction to the basic concepts, premises, and techniques involved in the scientific approach to the study of human societies. Analysis is made of selected aspects of social behavior at interpersonal, intergroup, and societal levels. Global perspectives are explored.

This course is required by the following degree programs: A.A.S. Health Education, B.A. Sociology, B.S. Community Health Education, B.S. Nutrition, B.S.N. Nursing, and B.S.W Social Work degree programs. SOC 1101 is also a general education course at Mansfield University.

INTRODUCTORY STATISTICS (MA 1125-190)

3.0 College Credits

Instructor: Dr. Matt Haner

A survey of basic statistical methods for analyzing data. Topics include descriptive statistics, probability, sampling, point and interval estimation, hypothesis tests, linear regression, correlation, and non-parametric tests.

This course is required by the following degree programs: A.S. Chemical Technology, A.S. Computer Information Systems, A.A.S. Health Education, B.S. Community Health Education, B.S. Biology – Medical Laboratory Sciences Concentration, B.S. Geosciences (all concentrations), B.S.N. Nursing, B.S. Nutrition, B.S.Ed. Professional Studies in Secondary Education – Earth/Space Science, English, and Social Studies Concentrations, B.S. Safety Management, and B.A. Sociology. This course may also be used to satisfy the mathematics requirement in the A.A.S. Environmental Technology program. MA 1125 is also a general education course at Mansfield University.

ORAL COMMUNICATION (COM 1101-190)

3.0 College Credits

Instructor: Ms. Bia Bernum

Objectives are to help students formulate their ideas coherently, evaluate factual material, use sound reasoning patterns in their preparation and attempts to communicate concepts orally, and to determine and select the most effective means of expression in formal and informal speaking situations.

This course is required by all degree programs at Mansfield University.

PHYSICAL GEOLOGY WITH LAB (GEL 1125-190 and GEL 1125L-190)

4.0 College Credits

Instructor: Dr. Lee Stocks

A study of the solid portion of the earth, its composition, and the processes that act upon it. Included are such topics as rocks and minerals, weathering, and geologic structures.

This course is required by the A.A.S. Environmental Technology and B.S. Geosciences degree programs. GEL 1125 is also a general education course.

PRINCIPLES OF ACCOUNTING I (ACC 1110-190)

3.0 College Credits

Instructor: Dr. Xiaoxuan Ji

Introduces the fundamentals of accounting, which is “the language of business.” The course covers the accounting cycle, balance sheet and income statement preparation, and internal controls. Other topics include accounting for cash, receivables, merchandise inventory, plant assets and intangibles, and ethics.

This course is required by the A.S. Business Administration, all B.S. Business Administration concentrations (Accounting, Management and Marketing) and the B.M. Music: Music Business degree programs.

UNITED STATES HISTORY TO 1877 (HST 2201-190)

3.0 College Credits

Instructor: Dr. Karen Guenther

A survey of American history covering pre-European contact through colonization, independence, and the formation of the new republic; nationalism, sectionalism, and the growth of democracy in the 19th century; and the Civil War and Reconstruction.

This course is required by the B.A. History and B.S.E. Professional Studies in Secondary Education Social Studies: History degree programs. HST 2201 is a general education course at Mansfield University.

MUSIC

“88 KEYS – 2 HANDS – NO PROBLEM!” PIANO LAB

0.5 Credit

What has 88 keys? A piano, of course! Learn how to play the music of the masters and more. This semester course is designed to give you a basic understanding of how to play the piano. You will learn how to use your hands both independently and together to achieve a positive musical experience. This course is for grades 10-12.

BAND I

1.0 Credit

This class is available to instrumental students with previous instrumental experience. Students interested in beginning their instrumental career should contact the band director. Each student is required to participate in heterogeneous or homogeneous lesson groups offered on a rotation basis through the school district. Marching band is a requirement for students (in grades 8-12) enrolled in the band program.

BAND II and CHORUS II

1.0 Credit

Students have the option to participate in both band and chorus ensembles. In grades 9-12, band and chorus meets every day during first period. Students alternate their days between band and chorus so that equal time is shared between ensembles.

CHORUS I

1.0 Credit

This is an elective course for students in grades 9-12. The class meets every day during the first period of the day. The course includes study of basic theory and music reading. There are two concerts a year, one for the holiday season and one in the spring. A variety of music is performed that is appropriate for the occasion. Along with the class, the students are asked to attend three vocal labs per marking period. These are small group sessions that will also occur during the school day. These sessions are set up for students to get extra help on their music.

FROM BACH TO ROCK

0.5 Credit

This course will cover the lives and music of composers beginning with Bach through today's popular music. Students will critically listen to and reflect on music compositions from every era. Students will also learn beginning music theory (note reading, rhythm reading, chord construction, etc...)

PHYSICAL EDUCATION & HEALTH

Students are required to complete one semester (0.5 credit) of Health and one semester (0.5 credit) of a Physical Education course in order to meet graduation requirements.

CURRENT ISSUES IN HEALTH

0.5 Credit

This course is designed to teach current health issues with a basic knowledge of all aspects of health. Topics may include: nutrition, body systems, disease, first aid, health careers and personal care. This course is a graduation requirement.

FUNDAMENTALS OF TEAM SPORTS

0.5 Credit

This course is designed for 9th grade students who enjoy team sports in an intramural setting. Students will assess their sport-specific skills, set semester goals, and work toward those goals while participating in the following activities: volleyball, basketball, floor hockey, softball, football, lacrosse, dodge ball, and soccer. This course is limited to students in 9th or 10th grade.

NET SPORTS

0.5 Credit

This course is designed for students to learn the skills needed to play and engage in tournament play in net sports. Net sports may include: volleyball, table tennis, badminton, pickle ball, paddle ball and eclipse ball.

STRATEGIES AND TOURNAMENT PLAY OF TEAM SPORTS

0.5 Credit

This course is designed to develop advanced strategies during game play of team sports. Emphasis is on teamwork and cooperation among class members to achieve common team goals. This course is limited to students in 11th or 12th grade.

WEIGHT TRAINING AND FITNESS

0.5 Credit

This course is designed for students who are interested in weight training and fitness activities with little or no experience.

SCIENCE

ADVANCED BIOLOGY

Pre-requisite: Recommended for students who obtained a 90% or higher in Physical Science

1.0 Credit

This faster paced and more student-directed version of the regular ninth grade biology course will surely be a challenge. All grade nine students will take either biology or advanced biology and will be required to take the Keystone Exam at course end. The material is divided into two modules. Module A covers basic biological principles including cells, the chemistry of life, cellular energetics (respiration and photosynthesis) and homeostasis. Module B covers the continuity and unity of life including cell growth and reproduction, DNA, genetics, evolution, and ecology. The Keystone Exam for Biology will be the final exam for the course.

AP CHEMISTRY

Pre-requisite: Summer assignments

2.0 Credits

The AP Chemistry course provides students with a foundation to support future advanced course work in chemistry. Through inquiry-based learning, students develop critical thinking and reasoning skills. Students cultivate their understanding of chemistry and science practices as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. The AP Chemistry course is equivalent to that of a first-year college level chemistry course. The course will involve extensive laboratory work and students will develop an ability to describe systems in written, verbal, symbolic and mathematical ways. This course will meet two periods each day to facilitate the required laboratory work. In addition, these students will prepare for the Advanced Placement Chemistry examination given in May. Failure to complete the mandatory summer assignments will result in dismissal from the AP course.



ALTERNATE ENERGY

0.5 Credit

A project based course dealing with wind energy, fuel cells, solar power, geothermal, and similar technologies. Select topics in electricity and electronics may be included.

BIOETHICS

Pre-requisites: Biology or Advanced Biology

0.5 Credit

Building on many of the topics introduced in 9th grade biology, bioethics will investigate dilemmas that science and technology have created in modern society. Students will be expected to discuss and actively problem solve selected questions currently being debated by scientists, politicians, and philosophers. Students will learn to differentiate opinions based on emotions from those supported by evidence and logical argument. The focus will not be to provide sure and certain answers, but rather to examine these important questions from multiple viewpoints. In so doing, students will gain greater understanding and respect for other positions and approaches, even if they do not agree with them. Thoughtful participation,

reflective writings, and projects will constitute the majority of graded work. Upon completion of this course, students will have a greater understanding of the impact that scientific discoveries have on individuals and society.

BIOLOGY

1.0 Credit

All grade nine students will take either biology or advanced biology and will be required to take the Keystone Exam at course end. The material is divided into two modules. Module A covers basic biological principles including cells, the chemistry of life, cellular energetics (respiration and photosynthesis) and homeostasis. Module B covers the continuity and unity of life including cell growth and reproduction, DNA, genetics, evolution, and ecology. The Keystone Exam for Biology will be the final exam for the course.

CHEMISTRY

Pre-requisite: Basic understanding of Algebra and other math skills

1.0 Credit

Fundamental concepts and applications of chemistry are presented to students in order to foster a deeper understanding of the world around us. Topics to be studied include the structure of the atom, chemical reactions and equations, kinetic theory, gases, and others. Laboratory activities and small group inquiry-based activities enhance the information presented in class discussions.

ECOLOGY

Pre-requisites: Biology or Advanced Biology

0.5 Credit

This semester course will investigate the interaction between the biotic and abiotic aspects of our world. Some topics that will be covered are the Biosphere, Biomes, Ecosystems, Biotic relationships, Bioenergetics, Natural resources, and Environmental concerns (populations, pollution, climate, and disease). There will be labs, videos, projects and articles to enhance discussion and learning of these topics.

FORENSICS

0.5 Credit

This semester long course is meant to be an introduction to the study of forensics. It applies concepts from biology, chemistry and physics to mysteries of crime solving in an integrated approach. Students perform labs, research, and simulated crime scene analysis. Topics such as fingerprints, ballistics, blood spatter, handwriting, and others are introduced.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

0.5 Credit

This course deals with occupational safety and health (OSHA). Anyone should take this course, regardless of your future plans. It will cover hazard communications, blood-borne pathogens, ergonomics, noise exposure, radiation exposure, confined space entry, fall protection, asbestos, lead, mercury, and other topics.

ORGANIC CHEMISTRY

Pre-requisites: Chemistry or AP Chemistry

0.5 Credit

This course involves the study of carbon compounds and an understanding of their properties and reactions. Careers that rely on a background in organic chemistry include biochemistry, biotechnology, environmental science, food science, materials science, medicine and pharmacology. Everyone encounters organic chemistry in their daily lives, from the molecules that make up all living things (like us), to the materials that we utilize as we go about our lives. The course builds on the basic chemical principles studied in earlier chemistry courses (Chemistry and/or AP Chemistry) and further develops the understanding of the fundamental relationship between chemical reactivity and structure. As a one semester introduction to organic chemistry, a review of fundamental chemical principles (orbitals, covalent bonding, polarity, intermolecular forces, VSEPR), essentials of organic nomenclature (naming), basic types of organic reactions, patterns of reaction mechanisms, and analytical techniques (melting point determination, gas chromatography, infrared spectroscopy) will be discussed. Students completing this course should leave well-prepared to enter an organic chemistry course in a college setting.

PHYSICS – ELECTRICITY & MAGNETISM

0.5 Credit

This course deals with electricity and magnetism and the relationship between the two. It will cover static charges, current, simple and complex circuits, magnets, and induction of a current. This fast-paced and rigorous semester course will prepare a person for further study in science, engineering, or the medical field. There is some overlap with Alternate Energy.

PHYSICS – MOTION

Pre-requisite: Trigonometry or the willingness to learn Trigonometry skills

0.5 Credit

This fast paced, math-intensive course deals with motion and the causes of motion. It will cover measurement speed, acceleration, projectile motion, Newton's Laws, Energy, Momentum and rotational motion. This semester course will prepare a person for further study in science, engineering, or the medical field.

PHYSICS – WAVES

0.5 Credit

This course deals with periodic motion, waves, light, and sound. It will cover various types of mechanical waves, light, color, lenses, mirrors, sound, noise, and music. This fast-paced semester course will prepare a person for further study in science, engineering, medical fields, music production, computer programming, etc.

PHYSIOLOGY – BODY SYSTEMS

Pre-requisite: Physiology – Intro; Have not taken Physiology

0.5 Credit

This semester course is designed to explore the detailed anatomy and physiology of the major systems of the human body. Topics of study will include Integumentary System, Skeletal System, Muscular System, Cardiovascular System, Lymphatic System, Nervous System, Urinary System, Respiratory System, and Endocrine System. There will be a detailed exploration of the anatomy and physiology that makes each

system unique while keeping an emphasis of whole-body integration and homeostasis. Small lab exercises and dissections will be performed to enhance learning where applicable.

PHYSIOLOGY – INTRO

Pre-requisite: Have not taken Physiology

0.5 Credit

This semester course is designed to help students explore and gain appreciation for the amazing Human body. There will be an emphasis of scientific/medical terminology integrated into each unit of the course. After a brief review of the Nature of Science, students will be exploring Gross Anatomy and Physiology, Medical terminologies, and body systems organization. Students will be asked to perform a detailed dissection applying previously learned concepts of body systems. Other topics of study will be Molecular Physiology, Cellular Physiology, and Histology. This course will serve as a pre-requisite for either Body Systems or Neurology.

PHYSIOLOGY – NEUROLOGY

Pre-requisite: Physiology – Intro; Have not taken Physiology

0.5 Credit

This semester course is designed to investigate the most fascinating and complicated system of our body, the Nervous system. After a review of the general anatomy and organization of the Nervous system, students will then explore the details of nerve cell types, communication, circuitry/signaling pathways, and human senses. Other topics of consideration will be brain chemistry/pharmacology interaction, neurological diseases, and the exploration of consciousness.

SOCIAL STUDIES

ABNORMAL PSYCHOLOGY AND BEYOND

Pre-requisite: Psychology is not required, but highly recommended

0.5 Credit

This course will be an extension of Psychology and will focus on abnormal behavior as well as the study of sleep and dreams, and motivation. This course is designed for college bound students in grades 10-12.

AMERICAN HISTORY I

1.0 Credit

This course reviews exploration and colonization efforts made by various nations in an attempt to settle North America. American History from the Revolutionary War period until the start of World War I will be examined. The Civil War along with its causes and effects will be studied in great detail.

AP UNITED STATES GOVERNMENT & POLITICS

Pre-requisite: Summer assignments; 85% or higher in previous AP

1.0 Credit

Designed for 12th grade Social Science students committed to college-level rigor. Students will form concentrated evaluations of the American Governmental legacy and the United States political process. This swift paced 34-week course will emphasize the structure and function of the United States Government as directly and indirectly provided in the Constitution. Further study will focus the civil rights, liberties, and interests of peoples, parties, and various social groups. It is highly recommended that students who register for this course have attained an average of 85% or higher in their previous social science AP course or a 90% or higher in their previous mainstream academic course. Further obligations for this course include extensive summer assignments required to be completed by the first day of class. Failure to complete the mandatory summer assignments will result in dismissal from the AP course. Please recognize this course is demanding for students throughout the summer and academic year.



AP WORLD HISTORY: MODERN

Pre-requisite: Summer assignments; 85% or better in previous AP; World Cultures recommended

1.0 Credit

This course is a collegiate level, year-long course. The AP World History: Modern course will begin in 1200 CE. The course has instituted changes starting in the 2019-20 school year. However, as the course requirements continue to develop and are announced by the AP College Board, the curriculum will adjust throughout the year to incorporate what is mandated. Requirements currently identify that students will begin the course with a study of the civilizations in Africa, the Americas, and Asia that are foundational to the modern era. Students are expected to participate in class discussions, complete individual daily assignments, and will have one group project at the end of the year. AP World History will rely heavily on college level texts, primary source documents, and outside readings. Students will prepare for and take the AP World History Exam given in May. The student is financially responsible for the AP Exam. It is strongly recommended that students enrolling in this class have an average of 90%



or better in previous history courses or an 85% or better in previous AP History courses. There will be required summer assignments due on the first day of school or the student will be asked to drop the course.

CRIMINAL JUSTICE

0.5 Credit

This course will reflect upon the rule of law and obligation it carries to various parties. With a foundation in limited government, the course will follow a sequenced criminal justice path through which the law is created, applied, violated, investigated, interpreted, and enforced.

CULTURAL STUDIES

Pre-requisite: Have not taken World Cultures

0.5 Credit

This semester course focuses on self-contained units of study in which content information will be paired with a food experience. Students will be responsible for participation in food preparation at home and to bring it into class. Units of study will include but not limited to Columbian Exchange, Japan, India, China, and some holidays.

POLITICAL & PHYSICAL GEOGRAPHY

Pre-requisite: Have not taken World Cultures

0.5 Credit

This semester course will focus on maps. Students will locate and label political boundaries and physical features of the earth. Political and Physical Geography students will be expected to quiz on maps on a regular basis.

PSYCHOLOGY

0.5 Credit

This course introduces students to various topics in Psychology. Areas examined will include disorders, biology and behavior, and sensation and perception. This course is designed for college bound students in grades 10 - 12.

SOCIAL PHILOSOPHY

0.5 Credit

This course will focus on the study and interpretation of society and social institutions in terms of ethical values rather than empirical relations. It will follow a topical approach to the history of Western philosophy vs Eastern thought and focuses on such issues as metaphysics, epistemology, the concepts of good vs. evil, the existence of supernatural powers and the philosophical roots of ethics and absolutism.

SOCIALIZATION AND ACTIVISM

0.5 Credit

This course examines the critical influences that shape an individuals' political beliefs and behaviors including family, school, peers, and media. Upon the understanding of this political socialization process, the course examines ways in which certain people act on/demonstrate political behavior to influence political outcomes including protest, riot, civil disobedience and more.

WORLD RELIGIONS

Pre-requisite: Have not taken World Cultures

0.5 Credit

This semester course focuses on the five recognized world religions of Judaism, Christianity, Islam, Hinduism, and Buddhism. The course will also look at some smaller recognized belief systems such as but not necessarily limited to Sikhism, Jainism, and Taoism, as time allows.

Graduation Requirements

Class of 2021

Graduation requirements are: 24 credits for regular education students, 23 credits for one-year career and technical education students, and 22 credits for two- or three-year career and technical education students. Required courses include: four credits in English, four credits in mathematics, three credits in social studies (pending March 2 board meeting), three credits in science, 0.5 credits in physical education and 0.5 credits in health. The balance of credits is comprised of electives.

Students also must attain proficiency or above on the Keystone Algebra I, Literature, and Biology exams. Students must complete remediation in order to graduate if not proficient in any one or more of the above exams.

1. Credit Requirements

4	English
4	Math
3	Social Studies (pending March 2 board meeting)
3	Science
0.5	Physical Education
0.5	Health
8+	Electives

TOTAL: 24+

*1 year CTE = 23 credits

*2-3 years CTE = 22 credits

2. Keystone Requirements

- Proficiency in Biology, Literature, and Algebra I
 - Students will be notified the summer after their junior year if they were not proficient and need to complete a Study Island remediation in senior year

Class of 2022

Local graduation requirements are set by the South Williamsport Area School Board of Education to align with local expectations and State law.

Graduation requirements are: 24 credits for regular education students, 23 credits for two-year career and technical education students, and 22 credits for three-year career and technical education students.

Required courses include: four credits in English, four credits in mathematics, three credits in social studies (pending March 2 board meeting), three credits in science, 0.5 credits in physical education and 0.5 credits in health. The balance of credits is comprised of electives.

1. Credit Requirements

4	English
4	Math
3	Social Studies (pending March 2 board meeting)
3	Science
0.5	Physical Education
0.5	Health
9+	Electives

TOTAL: 24+

*1 year CTE = 23 credits

*2-3 years CTE = 22 credits

2. Additional Requirement(s)

The Commonwealth of Pennsylvania mandates graduation requirements for all students in the Pennsylvania public school system. In addition to local requirements, all students must complete one of the five options below to satisfy the state graduation requirements:

Options:

1. Score proficient or advanced on each Keystone Exam – Algebra I, Literature, and Biology. Students will have the option to retest.
2. Earn a satisfactory composite score on the Algebra I, Literature, and Biology Keystone Exams. The passing composite score is 4452. Students must have at least one Proficient or Advanced and no Below Basic scores.
3. Earn a passing grade on the courses associated with each Keystone Exam, and satisfactorily complete one of the following:
 - a. an alternative assessment (SAT, PSAT, ACT, ASVAB)
 - b. advanced coursework (AP, concurrent enrollment courses such as Penn College NOW)
 - c. pre-apprenticeship program
 - d. acceptance in to a 4-year nonprofit institution of higher education for college-level coursework
4. Earn a passing grade on the courses associated with each Keystone Exam, and pass the National Occupational Competency Testing Institute (NOCTI) or the National Institute of Metalworking Skills (NIMS) assessment in an approved Career and Technical Education concentration.
5. Earning a passing grade on the courses associated with each Keystone Exam, and demonstrate readiness for postsecondary engagement through three pieces of evidence from the student's career portfolio aligned to student goals and career plan. Examples of evidence will include:
 - a. SAT Subject tests
 - b. AP or concurrent coursework
 - c. higher education acceptance
 - d. community learning project
 - e. completion of an internship, externship, or co-op
 - f. full-time employment

Class of 2023 and Beyond

In addition to credit requirements and additional requirement(s) listed above for the Class of 2022, students will fulfill local graduation requirements by successful completion of their chosen Mountie Pathway.

Graduation with Distinction

Graduation with Distinction through a Mountie Pathway is an honor earned by students who choose to challenge themselves inside a Mountie Pathway by fulfilling all of the following requirements. Graduation with Distinction is a self-selected action by individual students. Graduates with Distinction will be recognized at Senior Awards Night and will wear a color cord during graduation.

Each action listed below is required:

- 1. Attend a career fair and document at least four (4) employment opportunities within your Mountie Pathway*
- 2. Participate in your Mountie Pathway guest lecture/speaker series at least twice*
- 3. Complete a job shadowing experience relative to your Mountie Pathway*
- 4. Complete an industry certification or career oriented credential*
- 5. Complete a Mountie Pathway course matrix*

Counseling Services

Your child's School Counselor can be contacted at (570) 320-4445 or via email. Mrs. Lisa Laidacker (llaidacker@swasd.org) is the counselor for students in grades 7, 8, and 9; Mrs. Emily Wagner (ewagner@swasd.org) is the counselor for students in grades 10, 11, and 12.

Academic Advisement

Monitoring Course Grades

As always, students and their families are able to monitor grades 24/7 through their PowerSchool account. This would be the most accurate and up-to-date information pertaining to performance in any given class. You are also able to email teachers directly from that website/application. If you need assistance accessing your account, please contact our Director of Information Technology, Mr. Dwight Woodley (dwoodley@swasd.org).

Counselors will also monitor grades and academic achievements throughout the year. Students should seek assistance as needed.

Tutoring

Tutoring services are available after school on Tuesdays and Thursdays from 2:31-3:15 in the Homework Hub. We are also able to coordinate one-on-one tutoring if available, upon request.

Conferences

Families are able to schedule meetings with teachers and/or counselor upon request (email is the preferred method of contact). If you are unable to meet during school hours, we have conferences at the end of November with evening hours.

Meeting Graduation Requirements

While the School Counselor will monitor and assist students to ensure they are meeting all graduation requirements, it is the responsibility of the student to periodically check-in with the counselor if there are any questions or concerns.

The Keystone Alternative Graduation Requirements (refer to pages 56-57) will be tracked by the counselor as well. If you have not met this requirement by the end of your junior year, you will be notified during the summer. At that time, it would be imperative for you schedule a meeting with your counselor over the summer or at the beginning of the school year to discuss how you will obtain the requirement prior to graduation

Career Planning

Classroom Lessons

Large-group instruction occurs throughout the school year. We work closely with PA CareerLink to provide lessons on everything from soft skills to interviewing and completing a job application. With our Mountie Pathways, students will be exposed to the different course offerings in each pathway throughout their high school career. Scheduling appropriate courses, with the guidance of families, is essential for future planning.

Learning Opportunities

The foundation of career awareness and exploration is taught throughout elementary and middle school. As a student progresses through high school, the need for individualization is essential. Learning opportunities can include everything from college representative meetings and job shadowing to field trips and part-time employment. Students can meet with their counselor to discuss future goals and plan for success after high school, whether that be entering the military, obtaining gainful employment, or continuing ones education.

Personal Wellness

Individual/Group Counseling

School Counselors are able to provide periodic counseling to students. If a student is looking for more consistent counseling services, they may be referred to our out-patient services offered through Diakon. Also, students may be recommended by their teacher(s) to take part in group counseling. Topics range from academic assistance to grief and loss. Acknowledgement and permission slips will always go home for a student prior to a group commencing.

Student Assistance Program

It is our duty to ensure we are providing as much support as desired by a student and their family to minimize those barriers to one's learning. If you or someone you know is experiencing a barrier of any kind (i.e. attendance, illegal substances, mental health, etc.), please make a referral to a counselor or another trusted adult in the school setting.

Other Information

Failed Courses

If a student earns below a 70%, no credit is earned for the course. Students may elect to complete summer school to make up credit or have their schedule modified to accommodate additional required courses in the following school year. Students who have failed required courses should see their school counselor to discuss their options.

- 1. Summer classes must be approved by a counselor and/or administrator. Students must provide their own transportation and pay their own tuition. Summer school information is usually available by May 15th in the Counseling Office.*
- 2. Private tutoring must be approved by an administrator. Tutoring must consist of a minimum of thirty (30) hours with an approved instructor certified in the area of the deficiency. Class size is limited to two (2) students.*

Promotion Policy

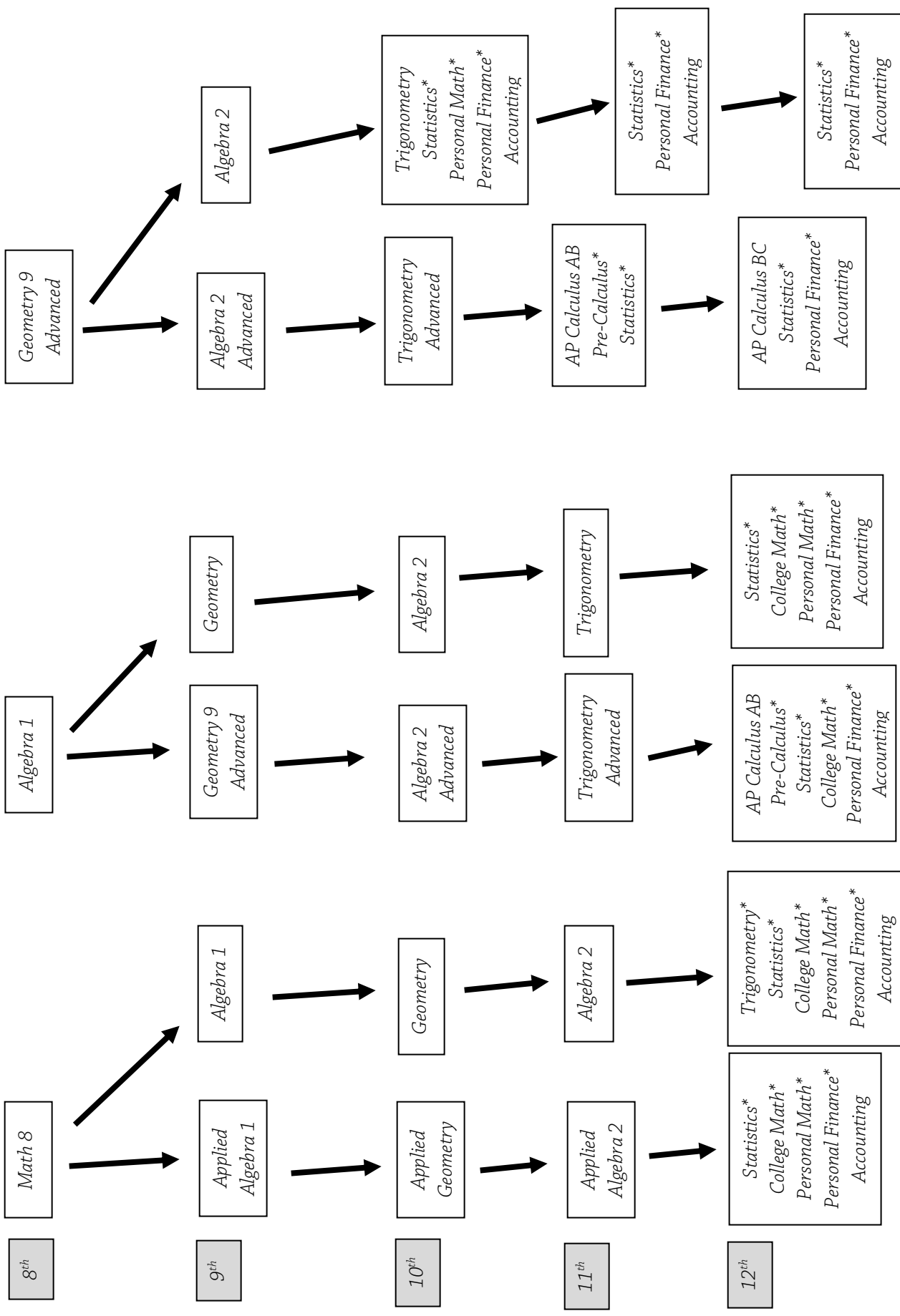
If by the end of 11th grade, a student has less than sixteen (16) credits earned, and there is no intention of completing credit recovery courses over the summer, they will be retained in 11th grade.

Course Dropping Procedures

Students will receive their schedules before the start of the upcoming school year and have the opportunity to make appropriate changes either before the first day of school or within the first 5 days of the class. This policy does not pertain to Penn College NOW or Mansfield Early Start Program courses, which have their own drop/add requirements.

GRADE

Math Course Sequencing



Course Offerings
9th Grade
2020 – 2021

REQUIRED COURSES *(full-year)*

<i>Math</i>	<i>English</i>	<i>Science</i>	<i>Social Studies</i>
<i>Algebra I Applied</i>	<i>English 9</i>	<i>Biology</i>	<i>American History I</i>
OR	OR	OR	
<i>Algebra I</i>	<i>English 9 Advanced</i>	<i>Biology Advanced</i>	
OR	<i>Students should speak with their current English, Math, and Science teachers to choose an appropriate level course.</i>		
<i>Geometry 9 Advanced</i>			

ELECTIVE COURSES

<i>Family & Consumer Science</i>		<i>Business & Technology</i>	
<i>Child Development</i>	<i>Meal Planning and Prep</i>	<i>CADD</i>	<i>Future Business Leaders of America</i>
<i>Fundamentals of Foods</i>	<i>Quilting</i>	<i>Computer Applications</i>	<i>Intro to Business</i>
<i>Infant Development</i>		<i>Digital Photography</i>	<i>Multimedia</i>
		<i>Entrepreneurship</i>	<i>Sports Marketing</i>
<i>Music</i>	<i>Physical Education</i>	<i>Art</i>	<i>Foreign Language</i>
<i>Band I (full year)</i>	<i>Current Issues in Health*</i>	<i>2D Design I, II</i>	<i>French I</i>
<i>Band II/Chorus II (full year)</i>	<i>Fundamentals of Team Sports</i>	<i>3D Design I, II</i>	<i>Spanish I</i>
<i>Chorus I (full year)</i>	<i>Net Sports</i>	<i>Other</i>	<i>*Graduation Requirement</i>
<i>From Bach to Rock</i>	<i>Weight Training & Fitness</i>	<i>Yearbook (full year)</i>	

Course Offerings
10th – 12th Grade
2020 – 2021

CORE COURSES

<i>English</i>	<i>Science</i>	<i>Math</i>	<i>Social Studies</i>
<i>American Literature I/II</i>	<i>Alternate Energy</i>	<i>(Advanced/Applied) Algebra II*</i>	<i>Abnormal Psychology</i>
<i>American Plays</i>	<i>AP Chemistry*</i>	<i>AP Calculus*</i>	<i>AP Government & Politics*</i>
<i>American Poetry</i>	<i>Bioethics</i>	<i>College Placement Exam Prep</i>	<i>AP World History: Modern*</i>
<i>AP English Literature*</i>	<i>Chemistry*</i>	<i>(Applied) Geometry*</i>	<i>Criminal Justice</i>
<i>Biographies</i>	<i>Ecology</i>	<i>Math SAT</i>	<i>Cultural Studies</i>
<i>Business Writing</i>	<i>Forensics</i>	<i>Personal Math</i>	<i>Political & Physical Geography</i>
<i>Composition</i>	<i>Organic Chemistry</i>	<i>Personal Finance</i>	<i>Psychology</i>
<i>From Literature to Film</i>	<i>OSHA</i>	<i>Pre-Calculus</i>	<i>Social Philosophy</i>
<i>International Literature</i>	<i>Physics – Electricity & Magnetism</i>	<i>Statistics</i>	<i>Socialization & Activism</i>
<i>Literature of Horror</i>	<i>Physics – Motion</i>	<i>(Advanced*) Trigonometry</i>	<i>World Religions</i>
<i>Literature of Social Justice</i>	<i>Physics – Waves</i>	<p><i>Core Graduation Requirements</i></p> <ul style="list-style-type: none"> - <i>English – 4 credits</i> - <i>Math – 4 credits</i> - <i>Science – 3 credits</i> - <i>Social Studies – 3 credits</i> <p style="text-align: center;"><i>*Full-year</i></p>	
<i>Literature of War</i>	<i>Physiology – Intro</i>		
<i>Science Fiction</i>	<i>Physiology – Body Systems</i>		
<i>Shakespearean Comedies</i>	<i>Physiology – Neurology</i>		
<i>Shakespearean Tragedies</i>	<p><i>Students should consult the Math Sequence chart in the document and/or speak with their current Math teacher to choose an appropriate level math course.</i></p>		
<i>Short Stories</i>			
<i>Speech Communications</i>			
<i>Utopian/Dystopian Literature</i>			

ELECTIVE COURSES

<i>Career & Technical Education (CTE)</i>		<i>Business & Technology</i>	
<i>Automotive*</i>	<i>Early Childhood*</i>	<i>(Advanced) Accounting*</i>	<i>Entrepreneurship</i>
<i>Biotechnology*</i>	<i>Engineering/Robotics*</i>	<i>AP Computer Science Principles*</i>	<i>Future Business Leaders of America</i>
<i>Commercial Art*</i>	<i>Health Occupations*</i>	<i>(Advanced) Business Law</i>	<i>Intro to Business</i>
<i>Computer IT*</i>	<i>Homeland Security*</i>	<i>BWM 150: Intro to Web Page Development*</i>	<i>Intro to Programming</i>
<i>Construction*</i>	<i>Precision Machining*</i>	<i>CADD</i>	<i>MGT 105: Intro to Business*</i>
<i>Culinary*</i>	<i>Welding*</i>	<i>Computer Applications</i>	<i>Multimedia</i>
Art		<i>Digital Photography</i>	<i>Sports Marketing</i>
<i>Figure Drawing</i>	<i>2D or 3D Design I, II, III</i>	Physical Education	
Music		<i>Current Issues in Health</i>	<i>Strategies & Tournament Play</i>
<i>88 Keys</i>	<i>Chorus I*</i>	<i>Fundamentals of Team Sports</i>	<i>Weight Training & Fitness</i>
<i>Band I*</i>	<i>From Bach to Rock</i>	<i>Net Sports</i>	
<i>Band II/Chorus II*</i>		Other	
Foreign Language		<i>Yearbook*</i>	
<i>French I, II, III, IV*</i>	<i>Spanish I, II, III, IV*</i>	<i>Elective Graduation Requirements</i> - 9+ credits in electives (additional core classes can count towards elective credit) - Current Issues in Health (0.5 credit) - Physical Education (0.5 credit) Total: 24 credits 1 Year of CTE: 23 credits 2-3 Years of CTE: 22 credits	
Family & Consumer Science			
<i>Child Development</i>	<i>Meal Planning and Prep</i>		
<i>Fundamentals of Foods</i>	<i>Creative Foods</i>		
<i>Infant Development</i>	<i>Quilting</i>		

