

CAREER PATHWAYS & PROGRAM OF STUDY GUIDE

2023-2024 SCHOOL YEAR

GENERAL MCLANE HIGH SCHOOL

11761 Edinboro Road Edinboro, PA 16412

INDEX

Graduation Requirements & Scheduling Guidelines	2
Recommended Courses	3
Career Pathways	4-14
The Five Pathway Options	6
Arts & Communications (AC) Pathway	7
Business, Finance, & Information Technology (BFIT) Pathway	8
Engineering and Industrial Technology (EIT) Pathway	9
Human Services (HS) Pathway	10
Science & Health (SH) Pathway	11
General McLane Core Curriculum	12
General McLane Elective Courses	13-16
AP Courses	17
Erie County Technical School (ECTS)	18
Dual Enrollment, RCI, NCAA	19
Non-Traditional Courses	20
Non-Traditional Courses Program of Study	20 20-24
Program of Study	20-24
Program of Study Art	20-24 25-26
Program of Study Art Business Technology	20-24 25-26 27-28
Program of Study Art Business Technology Computer Science	20-24 25-26 27-28 28-29
Program of Study Art Business Technology Computer Science English	20-24 25-26 27-28 28-29 29-32
Program of Study Art Business Technology Computer Science English Family & Consumer Science	20-24 25-26 27-28 28-29 29-32 32-33
Program of Study Art Business Technology Computer Science English Family & Consumer Science Health & Physical Education	20-24 25-26 27-28 28-29 29-32 32-33 33-34
Program of Study Art Business Technology Computer Science English Family & Consumer Science Health & Physical Education Mathematics	20-24 25-26 27-28 28-29 29-32 32-33 33-34 34-35
Program of Study Art Business Technology Computer Science English Family & Consumer Science Health & Physical Education Mathematics Music	20-24 25-26 27-28 28-29 29-32 32-33 33-34 34-35 35-37
Program of Study Art Business Technology Computer Science English Family & Consumer Science Health & Physical Education Mathematics Music Science	20-24 25-26 27-28 28-29 29-32 32-33 33-34 34-35 35-37 38-39

GRADUATION REQUIREMENTS

ACADEMIC AREAS	REQUIREMENTS
English	4 credits
Mathematics	3 credits
Science	3 credits
Social Studies	3 credits
College & Career Readiness	.5 credits
Driver Education	.25 credits
Physical Education	1.5 credits
Health Education	.75 credits
The Arts (menu)	1 credit
Technology Education (menu)	1 credit
Board Approved Electives	9.75 credits
Total Credits	28 credits

In addition to General McLane Graduation Requirements, students must meet the requirements established through Act 158 and Act 339. General McLane High School utilizes Naviance to develop a career portfolio and store necessary documents needed for state graduation requirements. In 9th grade, students will complete the Career Interest Profiler through Naviance and select a pathway which will be revisited annually during the scheduling process. During 11th grade, students will complete a variety of additional career assessments in Naviance during College & Career Readiness.

A student who has completed the requirements for graduation shall not be denied a diploma as a disciplinary measure, but the student may be denied participation in the graduation ceremony when personal conduct so warrants. Such exclusion shall be regarded as a school suspension. (Board Policy 217)

SCHEDULING GUIDELINES

- 1. All students must register for four (4) courses every nine-week term.
- Pre-registration- When students access scheduling information via powerschool, recommended courses will be listed. These courses have been recommended on the basis of the student's ability and recommendations from the faculty of the various departments. Deviations from those recommendations should be discussed with the teacher in that discipline area.

RECOMMENDED COURSES

9TH-GRADE		
COURSE	CREDIT	
English 9	1	
US History 1	1	
Science	1	
Mathematics	1	
Physical Education	.5	
Health	.5	
Electives	3	
TOTAL	8	

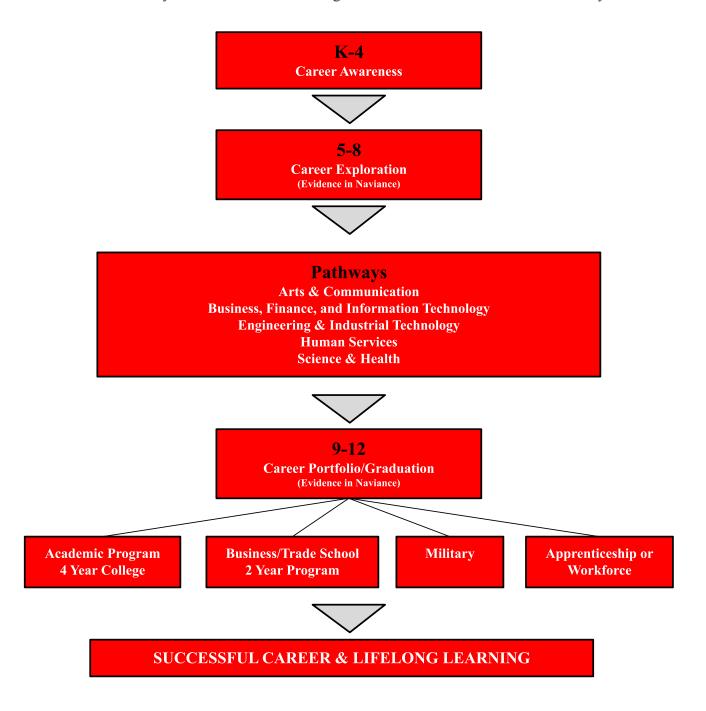
10TH-GRADE	
COURSE	CREDIT
English 10	1
US History 2	1
Science	1
Mathematics	1
PE10/ DE	.5
Electives	3.5
TOTAL	8

11TH-GRADE		
COURSE	CREDIT	
English 11	1	
Government & Econ	1	
Mathematics	1	
Science	1	
College & Career Readiness	.5	
Coed Physical Education	.25	
Health	.25	
Electives	3	
TOTAL	8	

12TH-GRADE	
COURSE	CREDIT
English 12	1
Physical Education	.5
Electives	3.5
*Math (Elective)	1.0
*Science (Elective)	1.0
*Social Studies (Elective)	1.0
TOTAL	8

CAREER PATHWAYS

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



What are Career Pathways?

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



Why should I choose a career pathway?

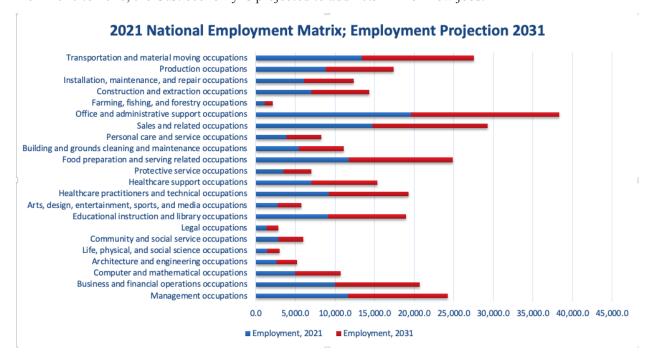
- To help focus on a career area that matches interests.
- To help set goals and align classes necessary to achieve those goals.
- To create career awareness.
- To encourage planning for workforce or postsecondary education opportunities.
- To provide knowledge that relates the high school experience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

How do I choose a career pathway?

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

Employment Projections by Occupational Group, 2010-2020

From 2010 to 2020, the U.S. economy is projected to add 20.5 million new jobs.



THE FIVE PATHWAY OPTIONS

Arts and Communications (AC)

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

Career cluster areas:

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

Business, Finance, and Information Technology (BFIT)

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

Career cluster areas:

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

Engineering and Industrial Technology (EIT)

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

Career cluster areas:

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

Human Services (HS)

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

Career cluster areas:

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

Science and Health (SH)

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

Career cluster areas:

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

Arts and Communications (AC) Pathway

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

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

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

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

Business, Finance, and Information Technology (BFIT) Pathway

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

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

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

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

Engineering and Industrial Technology (EIT) Pathway

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

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

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

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

Human Services (HS) Pathway

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

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

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

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

Science and Health (SH) Pathway

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

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

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

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

General McLane Core Curriculum

	Grade 9:	Grade 10:	Grade 11:	Grade 12:
English Core Class:	Literacy & Comprehension English 9 English 9 Advanced English 9 Accelerated	Literacy & Comprehension English 10 English 10 Advanced English 10 Accelerated	English 11 English 11 Advanced English 11 Accelerated	English 12 English 12 Advanced AP English Literature & Composition
Science Core Class:	Integrated Science Biology Accelerated	Biology Chemistry Accelerated	Applications of Science Physics I Accelerated	Physics I Accelerated Physics II Accelerated AP Chemistry AP Biology AP Environmental Biology
History Core Class:	US History I US History I Accelerated	US History II US History II Accelerated	Government & Economics AP US Government & Politics	AP US History AP World History
Math Core Class:	Applied Algebra I Algebra I Algebra II Accelerated Algebra II	Applied Algebra II Algebra II Geometry Geometry Accelerated	Consumer Math Algebra II Geometry Statistics Trigonometry Accelerated	Geometry Trigonometry Accelerated Statistics AP Calculus AB AP Calculus BC
Required Courses	Health 9 & Phys. Ed.	Phys. Ed./ Driver's Ed	Health & Phys. Ed. College & Career Readiness	Phys. Ed.
Elective	General Electives	General Electives	General Electives	General Electives
		ECTS Program	ECTS Program	ECTS Program
			Dual Enrollment / RCI	Dual Enrollment / RCI

General McLane Elective Courses

		Pathways						
Course Number	Course	Arts & Communication	Business, Finance, & Information Technology	Engineering & Industrial Technology	Human Services	Science & Health		
580	Accounting I		BFIT		HS			
168	Acting & Set Design	AC			HS			
450	Anatomy					SH		
429_01	AP Biology					SH		
334_01	AP Calculus AB		BFIT	EIT		SH		
334_02	AP Calculus BC		BFIT	EIT		SH		
420_01	AP Chemistry			EIT		SH		
338	AP Computer Science Principles		BFIT	EIT				
173_01	AP English Literature & Composition	AC						
4011	AP Environmental Science			EIT		SH		
505_01	AP French Language and Culture	AC						
515_01	AP Spanish Language and Culture	AC						
174	AP Seminar	AC	BFIT	EIT	HS	SH		
229	AP US Government and Politics	AC	BFIT	EIT	HS	SH		
231_01	AP US History	AC						
232	AP World History	AC						
634	Architectural Design I	AC		EIT				
638	Architectural Design II	AC		EIT				
755	Art Introduction	AC	BFIT	EIT				
752	Artistic Metalsmithing	AC		EIT				
460	Astrophysics			EIT		SH		
722	Brass Ensemble	AC						
730	Broadway Dinner Choir	AC						
750	Ceramics	AC						
424	Chemistry Magic			EIT		SH		
680	Child Dev I	AC			HS	SH		
360	Coding I	AC	BFIT	EIT				
556	College & Career Readiness	AC	BFIT	EIT	HS	SH		

	Pathways					
Course Number	Course	Arts & Communication	Business, Finance, & Information Technology	Engineering & Industrial Technology	Human Services	Science & Health
349	Computer Animation	AC	BFIT	EIT		
726	Concert Band 9 and 10	AC				
169	Creative Writing	AC	BFIT		HS	
640	Culinary Arts I	AC			HS	SH
641	Culinary Arts II	AC			HS	SH
241	Current Affairs	AC	BFIT		HS	SH
596	Digital Literacy	AC	BFIT	ЕІТ	HS	SH
742	Drawing	AC	BFIT	ЕІТ		
744	Drawing II	AC	BFIT	ЕІТ		
480	Drone I	AC	BFIT	EIT	HS	
003	Education Academy	AC			HS	SH
635	Engineering Design I	AC		ЕІТ		
636	Engineering Design II	AC		ЕІТ		
812	Extreme Fitness				HS	SH
836	Fitness & Weight Training				HS	SH
500	French I	AC				
501	French II	AC				
502	French III	AC				
504	French V	AC				
694	GM Cafe	AC	BFIT		HS	
724	GM Jazz 9 and 10	AC				
725	GM Jazz_Big Band	AC				
759	Graph Design : Photoshop	AC	BFIT	EIT		
758	Graphic Design : Illustration	AC	BFIT	EIT		
757	Graphic Design II	AC	BFIT	EIT		
738	Guitar Ensemble	AC				
758_1	Hand Lettering and Illustration	AC	BFIT			
723	History of Jazz	AC				
732	History of Rock and Roll	AC				
734	Holiday Choir	AC				
701_1	Holiday Symphonic Winds	AC				

		Pathways						
Course Number	Course	Arts & Communication	Business, Finance, & Information Technology	Engineering & Industrial Technology	Human Services	Science & Health		
601	Home Maintenance	AC	BFIT	EIT	HS			
610	Intro Metal Material	AC	BFIT	EIT				
582	Intro to Accounting		BFIT		HS			
600	Intro to Wood	AC	BFIT	EIT				
548	Intro to World Languages & Culture	AC	BFIT	EIT	HS	SH		
593	Introduction to Business	AC	BFIT					
718	Jazz Improvisation I	AC						
719	Jazz Improvisation II	AC						
645	Lifetime Nutrition				HS	SH		
700	Marching Band	AC						
336	Math K'NEXtions	AC		EIT				
163	Media Arts	AC	BFIT	EIT		SH		
612	Metal Production Systems	AC	BFIT	EIT				
706	Music Theory I	AC						
161	Newspaper	AC	BFIT					
741	Painting I	AC						
745	Painting II	AC						
720	Percussion Ensemble	AC						
746	Photography I	AC	BFIT	EIT				
747	Photography II	AC	BFIT	EIT				
433	Physics			EIT		SH		
440	Physics I Acc			EIT		SH		
441	Physics II Acc			EIT		SH		
626	Power Technology	AC		EIT				
243	Psychology of Body and Mind	AC	BFIT	EIT	HS	SH		
244	Psychology of Devel and Wellness	AC	BFIT	EIT	HS	SH		
167	Public Speaking	AC	BFIT	EIT	HS	SH		
590	Retail Management	AC	BFIT		HS			
628	Robotics/CAM	AC		EIT		SH		
180	SAT Prep							
156	Senior Seminar	AC	BFIT	EIT	HS	SH		

		Pathways						
Course Number	Course	Arts & Communication	Business, Finance, & Information Technology	Engineering & Industrial Technology	Human Services	Science & Health		
562	Social Media and Marketing	AC	BFIT	EIT	HS			
240	Sociology	AC	BFIT	EIT	HS	SH		
248	Social Conflict	AC	BFIT	EIT	HS	SH		
510	Spanish I	AC						
511	Spanish II	AC						
512	Spanish III	AC						
514	Spanish V	AC						
710	Spring Concert Choir	AC						
701_2	Spring Symphonic Winds	AC						
350	Statistics		BFIT	EIT	HS	SH		
733	String Ensemble	AC						
207	Struggle & Triumph: History Through Sports	AC			HS			
703	Student Conductor	AC						
320M	Trigonometry Accelerated			EIT				
714	Vocal Jazz Ensemble	AC						
613	Wood Production Systems	AC		EIT				
721	Woodwind Ensemble	AC						
216	WWII and the Greatest Generation	AC						
165	Yearbook	AC	BFIT					

AP COURSE OFFERINGS

Earn College Credit & Placement

AP courses can help you acquire the skills and habits you will need to be successful in college. You will improve your writing skills, sharpen your problem-solving abilities, and develop time management skills, discipline, and study habits. More than 90 percent of four-year colleges in the United States and colleges in more than 60 other countries give students credit, advanced placement or both on the basis of AP exam scores. By entering college with AP credits, you will have the time to move into upper level courses, pursue a double-major or study abroad.

AP Course Planning

Students who wish to take multiple AP courses must plan their course selections carefully. In order to achieve this goal, students will need to schedule multiple core courses in addition to AP courses concurrently, especially during their 11th and 12th grade year. The AP courses are conducted based on student interest. Students are encouraged to pick a focus area of interest and plan multiple courses as a two-year commitment. For example, if a student excels at science and math, they may want to schedule one or two AP courses in each of those disciplines each year. Please note that it is highly unlikely a student will be able to schedule all AP course offerings prior to graduation.

Guidelines

- No more than two (2) AP courses should be scheduled per year unless approved by the administration.
- AP course enrollment is subject to instructor approval.
- Students must maintain an 85% attendance rate the previous year to enroll in an AP course.
- Parents must review and sign the AP course enrollment approval agreement.
- Only courses with ample enrollment will be conducted.

AP Courses				
AP Biology	AP French Language and Culture			
AP Calculus AB	AP Seminar			
AP Calculus BC	AP Spanish Language and Culture			
AP Chemistry	AP US Government and Politics			
AP Computer Science Principles	AP US History			
AP English Literature & Composition	AP World History			
AP Environmental Science				

ERIE COUNTY TECHNICAL SCHOOL (ECTS)

The Erie County TEchnical School (ECTS) provides career and technical education for General McLane students. Students in grades 10 through 12, who are interested in a technical career, should see their school counselor for information concerning application and selection. A curriculum guide for ECTS is available in the school counseling office.

Students selected are enrolled in half-day attendance at ECTS and half-day at their home school. Transportation will be provided by the school district.

Many post-secondary institutions have articulation agreements with ECTS. These agreements allow our students guaranteed admission, advanced placement, or exemption from taking certain classes. Articulation agreements save students time and money for the work they completed in high school.

Technical Training Clusters: Art & Design for Business, Computer Networking, Computer Programming,

Drafting & Design Engineering, Graphic Media & Design

Construction: Construction Trades, Facility Maintenance Technologies

Human Services: Cosmetology, Culinary, Baking & Pastry Arts, Early Childhood Education, Health Assistant,

Hospitality Management & Tourism, Sports Therapy & Exercise Science

Manufacturing: Electrical Engineering, Metal Fabrication, Precision Machining Technology

Transportation: Auto Body Repair, Automotive Technologies

COURSE SEQUENCING & CREDIT REQUIREMENTS

Credit requirements for an ECTS student must be met as follows:

- Once enrolled in ECTS, students earn 10.0 credits via ECTS and 14 credits via GMHS for a minimum total of 24.0 credits.
- AM ECTS students earn 4.0 credits in grade 10
- PM ECTS students earn 3.0 credits in grades 11 & 12
- Please note that if a student is placed in AM ECTS in grades 11 or 12, he/she will earn 4.0 credits that year via ECTS.

English: 4.0 credits
Math: 3.0 credits
Science: 3.0 credits
Soc. Studies: 2.0 credit
Physical Education: 2.5 credits

Elective/Fine Arts: 4.0 credits (minimum)

Students follow a regular 9th-grade schedule and then typically meet graduation requirements at GMHS as follows:

<u>Grade 9</u>		<u> Grade 10</u>		<u> Grade 11</u>		Grade 12	
English 9	1.0	English 10	1.0	English 11	1.0	English 12	1.0
U.S. History 1	1.0	Science	1.0	Mathematics	1.0	Government & Econ.	1.0
Science	1.0	Mathematics	1.0	U.S. History 2	1.0	Science	1.0
Mathematics	1.0	PE 10/Driver's Ed	0.5	Physical Ed.	0.25	Physical Ed.	0.5
Physical Ed.	0.5	Elective	0.5	Health	0.25	Elective	0.5
Health	0.5	ECTS Lab	4.0	ECTS Lab	4.0	ECTS Lab	4.0
Electives	3.0						
TOTAL	8.0	TOTAL	8.0	TOTAL	8.0	TOTAL	8.0

DUAL ENROLLMENT

The Dual Enrollment program allows eligible students to apply for enrollment in college classes. By participating, these students are able to receive both high school elective credit and college credit for courses successfully completed. College credit is transferred at the discretion of the receiving university or college. Students cannot substitute Dual Enrollment Courses for core courses required for graduation from General McLane High School. Students will be financially responsible for the courses and additional costs associated with these courses.

Dual Enrollment courses are courses that are taken by high school students on college campuses such as Penn West Edinboro University. Students must apply and be accepted by the participating college. It is important to note that Dual Enrollment courses are not included in the General McLane High School GPA calculation. Participation in these programs may impact a student's opportunity for graduation honors.

A number of criteria must be met to participate in Dual Enrollment. Please contact Dual Enrollment coordinator Mrs. Melanie Mischler.

REGIONAL CHOICE INITIATIVE (RCI)

The Regional Choice Initiative (RCI) is a dual enrollment program that offers a unique experience for Pennsylvania high school students to earn college credits and their high school diploma simultaneously by participating in college-level courses taught by professors from local institutions. Students will receive direct instruction from college faculty, greater independence transition to college, and college credits.

NCAA: PLANNING ON COLLEGE ATHLETIC CAREER

Qualifying for athletic financial aid and participation at specific colleges (determined by Division status) depends on completion of a NCAA prescribed core of courses beginning in grade 9, as noted in the annual sports physical packet. Students' high school grade point average along with standardized test scores (SAT and/or ACT) will also determine one's qualifying status. When you register for the SAT/ACT, you must request through your online registration account to have your SAT/ACT test scores sent directly to NCAA (The code is 9999).

The NCAA Clearinghouse form should be filed after the completion of the student's junior year. Seniors must be certified with the NCAA Clearinghouse to be qualified with a specific college. Final qualifying status occurs upon graduation. Detailed and updated information on applying for certification with the NCAA Clearinghouse is available on the NCAA website.

NON-TRADITIONAL COURSES

NON-INSTRUCTIONAL PERIODS

Non instructional periods are of two basic types. These include: student apprentice periods and release periods. Seniors may participate in a student apprentice of those two options for a maximum of two (2) scheduling units. Juniors may participate in one (1) scheduling unit of a student apprentice period. No academic credit will be given for release periods.

Student Apprentice (Course 770)

Students working with teachers may be involved in any of the following areas: tutoring, correcting objective tests, making bulletin boards and displays, typing and routine clerical tasks. Students working in the office will be assigned one or more of the following duties: typing, filing, answering the telephone, running photocopies, delivering messages to teachers, distributing the daily attendance report, and helping with routine clerical tasks.

Release Period (Course 671, 672, 673. 674)

Seniors may request early release a maximum of two terms provided they:

- Are registered for all required graduation credits
- Are carrying a load of at least seven (7) credits
- Have written permission of a parent or guardian
- Do not owe obligations to the school

Release students must agree to not be in the school building during the release time without prior permission from an administrator and follow the school schedule on early dismissal days, activity period days, etc. Students will not be granted release unless they have earned, or have the potential to earn, enough credits for a diploma.

Independent Study (Course 075)

Any student interested in scheduling an independent study must obtain an approval form in the guidance office.

PROGRAM OF STUDY

	ART			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
755	Art Introduction	A	9, 10, 11, 12	0.5
752	Artistic Metalsmithing	A	9, 10, 11, 12	0.5
750	Ceramics	A	9, 10, 11, 12	0.5
742	Drawing I	A	9, 10, 11, 12	0.5
744	Drawing II	A	10, 11, 12	0.5
758	Graphic Design- Illustration	A/T	9, 10, 11, 12	0.5
759	Graphic Design- Photoshop	A/T	9, 10, 11, 12	0.5
757	Graphic Design II	A/T	9, 10, 11, 12	0.5
758_1	Hand Lettering and Illustration	A	9, 10, 11, 12	0.5
741	Painting I	A	9, 10, 11, 12	0.5
745	Painting II	A	9, 10, 11, 12	0.5
746	Photography I	A/T	10, 11, 12	0.5
747	Photography II	A/T	10, 11, 12	0.5

	BUSINESS/TECHNOLOGY			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
580	Accounting 1	Т	10, 11, 12	0.5
556	College & Career Readiness		11	0.5
596	Digital Literacy	Т	9, 10, 11, 12	0.5
582	Introduction to Accounting	Т	9, 10, 11, 12	0.5
593	Introduction to Business	Т	9, 10, 11, 12	0.5
161	Newspaper	Т	9, 10, 11, 12	0.5
590	Retail Management	Т	9, 10, 11, 12	0.5
562	Social Media and Marketing	A/T	9, 10, 11, 12	0.5
50	Study Skills		9, 10, 11, 12	0.5

	COMPUTER SCIENCE			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
338	AP Computer Science Principles* (Weighted Course)	T	10, 11, 12	0.5
360	Coding I	T	9, 10, 11, 12	0.5
361	Coding II	Т	9, 10, 11, 12	0.5
364	Computer Animation	A/T	9, 10, 11, 12	0.5
480	Drones I	T	11, 12	0.5
481	Drones II	T	11, 12	0.5
758	Graphic Design-Illustration	A/T	9, 10, 11, 12	0.5
759	Graphic Design-Photoshop	A/T	9, 10, 11, 12	0.5
757	Graphic Design II	A/T	9, 10, 11, 12	0.5

	ENGLISH			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
168	Acting & Stage Design	A	9, 10, 11, 12	0.5
173_01	AP English Literature & Composition* (Weighted Course)		11, 12	1.0
174	AP Seminar* (Weighted Course)		10,11,12	1.5
169	Creative Writing	Т	9, 10, 11, 12	0.5
103	English 9		9	1.0
101	English 9 Advanced		9	1.0
100	English 9 Accelerated* (Weighted Course)		9	1.0
112	English 10		10	1.0
111	English 10 Advanced		10	1.0
110	English 10 Accelerated* (Weighted Course)		10	1.0
122	English 11		11	1.0
121	English 11 Advanced		11	1.0
120	English 11 Accelerated		11	1.0
132	English 12		12	1.0
131	English 12 Advanced		12	1.0
167	Public Speaking		9, 10, 11, 12	0.5
180	SAT Prep Class	T	11, 12	0.5
165	Yearbook	A/T	9, 10, 11, 12	1.0

	FAMILY & CONSUMER SCIENCE			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
680	Child Development I		9, 10, 11, 12	0.5
681	Child Development II		10, 11, 12	0.5
640	Culinary Arts I	A	9,10, 11, 12	0.5
641	Culinary Arts II	A	11, 12	0.5
694	GM Cafe	A/T	11, 12	0.5
645	Lifetime Nutrition		9, 10, 11, 12	0.5
156	Senior Seminar		12	0.5
	HEALTH & PHYSICAL EDUCATION			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
831	Adaptive PE		9, 10, 11, 12	0.5
810	Drivers Education		10	0.25
812	Extreme Fitness		12	0.5
836	Fitness & Weight Training I		9, 10, 11, 12	0.5
800	Health 9		9	0.5
821	Health 11		11	0.5
799	Physical Education 9		9	0.5
810	Physical Education 10		10	0.25
820	Physical Education 11		11	0.5
830	Physical Education 12		12	0.5
813	Recreational Sports		9, 10, 11, 12	0.5
513	Total Sports		>, 10, 11, 12	0.0
	MATHEMATICS			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
301	Algebra I		9, 10, 11, 12	1.0
311	Algebra II		9, 10, 11, 12	1.0
300	Algebra II Accelerated* (Weighted Course)		9, 10, 11, 12	1.0
334_01	AP Calculus AB* (Weighted Course)		11, 12	1.0
334 02	AP Calculus BC* (Weighted Course)		11, 12	1.0
351	Applied Algebra Part I		9, 10	1.0
352	Applied Algebra Part II		-	
352 353	Applied Algebra Part II Consumer Math		9, 10, 11, 12	1.0
353	Consumer Math		9, 10, 11, 12 11, 12	1.0 1.0
353 321	Consumer Math Geometry		9, 10, 11, 12 11, 12 9, 10, 11, 12	1.0 1.0 1.0
353 321 310	Consumer Math Geometry Geometry Accelerated* (Weighted Course)	Т	9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12	1.0 1.0 1.0 1.0
353 321 310 336	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions	T	9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12 10, 11, 12	1.0 1.0 1.0 1.0 0.5
353 321 310 336 350	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions Statistics	T	9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12 10, 11, 12 11,12	1.0 1.0 1.0 1.0 0.5
353 321 310 336	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions	T	9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12 10, 11, 12	1.0 1.0 1.0 1.0 0.5
353 321 310 336 350	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions Statistics	T	9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12 10, 11, 12 11,12	1.0 1.0 1.0 1.0 0.5
353 321 310 336 350	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions Statistics Trigonometry Accelerated* (Weighted Course)	T T Art/TechElective	9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12 10, 11, 12 11,12	1.0 1.0 1.0 1.0 0.5
353 321 310 336 350 320	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions Statistics Trigonometry Accelerated* (Weighted Course) MUSIC		9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12 10, 11, 12 11,12 10, 11, 12	1.0 1.0 1.0 1.0 0.5 1.0
353 321 310 336 350 320 **Course No.	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions Statistics Trigonometry Accelerated* (Weighted Course) MUSIC Subject	Art/TechElective	9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12 10, 11, 12 11,12 10, 11, 12 Grade(s)	1.0 1.0 1.0 1.0 0.5 1.0 1.0
353 321 310 336 350 320 Course No.	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions Statistics Trigonometry Accelerated* (Weighted Course) MUSIC Subject Brass Ensemble	Art/TechElective A	9, 10, 11, 12 11, 12 9, 10, 11, 12 9, 10, 11, 12 10, 11, 12 11,12 10, 11, 12 Grade(s) 9, 10, 11, 12	1.0 1.0 1.0 1.0 0.5 1.0 1.0
353 321 310 336 350 320 <i>Course No.</i> 722 730	Consumer Math Geometry Geometry Accelerated* (Weighted Course) Math K'NEXtions Statistics Trigonometry Accelerated* (Weighted Course) MUSIC Subject Brass Ensemble Broadway Dinner Choir	Art/TechElective A A	9, 10, 11, 12 11, 12 9, 10, 11, 12 10, 11, 12 11, 12 10, 11, 12 10, 11, 12 Grade(s) 9, 10, 11, 12 9, 10	1.0 1.0 1.0 0.5 1.0 1.0 Credit 0.5 0.5

725	GM Jazz Big Band	A	10, 11, 12	0.5
738	Guitar Ensemble	A	9, 10, 11, 12	0.5
723	History of Jazz	A	9, 10, 11, 12	0.5
732	History of Rock & Roll	A	9, 10, 11, 12	0.5
734	Holiday Choir	A	9, 10	0.5
701_1	Holiday Symphonic Winds	A	9, 10, 11, 12	0.5
718	Jazz Improvisation I	A	9, 10, 11, 12	0.5
719	Jazz Improvisation II	A	9, 10, 11, 12	0.5
700	Marching Band	A	9, 10, 11, 12	0.5
706	Music Theory	A	10, 11, 12	0.5
720	Percussion Ensemble	A	9, 10, 11, 12	0.5
710	Spring Concert Choir	A	9, 10, 11, 12	0.5
701_2	Spring Symphonic Winds	A	9, 10, 11, 12	0.5
714	Vocal Jazz Ensemble	A	9, 10, 11, 12	0.5
711	Women's Ensemble	A	9, 10, 11, 12	0.5
721	Woodwind Ensemble	A	9, 10, 11, 12	0.5

	SCIENCE			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
450	Anatomy		11, 12	1.0
429_01	AP Biology* (Weighted Course)		11, 12	1.0
420_01	AP Chemistry* (Weighted Course)		11, 12	1.0
4011	AP Environmental Science* (Weighted Course)		11, 12	1.0
464	Applications of Science		11, 12	1.0
460	Astrophysics		10, 11, 12	0.5
411	Biology		10, 11, 12	1.0
400	Biology Accelerated* (Weighted Course)		9, 10	1.0
421	Chemistry		10, 11, 12	1.0
410	Chemistry Accelerated* (Weighted Course)		10, 11, 12	1.0
437	Integrated Science		9	1.0
462	Nuclear Physics		11, 12	0.5
433	Physics		11, 12	1.0
440	Physics I Accelerated* (Weighted Course)		11, 12	1.0
441	Physics II Accelerated* (Weighted Course)		11,12	1.0

	SOCIAL STUDIES			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
231_01	AP US History* (Weighted Course)		11, 12	1.0
229	AP US Government & Politics* (Weighted Course)		11	1.0
232	AP World History* (Weighted Course)		10,11,12	1.0
226	Government & Economics		11	1.0
241	Current Affairs		11	0.5
243	Psychology of Body & Mind		11, 12	0.5
244	Psychology of Development & Wellness		11, 12,	0.5
248	Social Conflict		11, 12	0.5
240	Sociology		10, 11, 12	0.5
207	Struggle & Triumph; History Through Sports		11, 12	0.5
212	US History I		9	1.0

214	US History I Accelerated* (Weighted Course)		9	1.0
213	US History II		10	1.0
215	US History II Accelerated* (Weighted Course)		10	1.0
	TECHNOLOGY EDUCATION			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
634	Architectural Design I	A/T	9, 10, 11, 12	0.5
638	Architectural Design II	A/T	9, 10, 11, 12	0.5
635	Engineering Design I	A/T	9, 10, 11, 12	0.5
636	Engineering Design II	A/T	9, 10, 11, 12	0.5
628	Robotics & CNC Technology	A/T	10,11, 12	0.5
349	Computer Animation	A/T	9, 10, 11, 12	0.5
601	Home Maintenance	A/T	9, 10, 11, 12	0.5
610	Introduction to Metal Materials and Processes	A/T	9, 10, 11, 12	0.5
600	Introduction to Wood Materials and Processes	A/T	9, 10, 11, 12	0.5
163	Media Arts	A/T	9, 10, 11, 12	0.5
626	Power Technology	A/T	9, 10, 11, 12	0.5
612	Metal Production Systems	A/T	10, 11, 12	0.5
613	Wood Production Systems	A/T	10, 11, 12	0.5

	WORLD LANGUAGES			
Course No.	Subject	Art/TechElective	Grade(s)	Credit
500	French I		9, 10, 11, 12	1.0
501	French II		9, 10, 11, 12	1.0
502	French III		10, 11, 12	1.0
504	French V		11, 12	1.0
505_01	AP French Language & Culture* (Weighted Course)		11, 12	1.0
548	Introduction to World Language & Culture		9, 10, 11, 12	0.5
510	Spanish I		9, 10, 11, 12	1.0
511	Spanish II		9, 10, 11, 12	1.0
512	Spanish III		10, 11, 12	1.0
514	Spanish V		11, 12	1.0
515_01	AP Spanish Language & Culture* (Weighted Course)		11, 12	1.0

Art

755 Art Introduction Grades 9 - 12

Credit: 0.5

The Art Introduction class is taught as a survey course. Students will study and gain experience in art criticism, art history and art production. In the area of production, students will work in drawing, design, painting, and sculpture. Students will critique artwork and discuss aesthetic and historic merits Individually and in group settings. Students will practice studio techniques while creating original works in each of the media areas listed above. Students may have occasional homework assignments.

752 Artistic Metalsmithing

Grades 9 - 12

Credit: 0.5

Prerequisite: Art Introduction

Introduction of basic metalsmithing and jewelry design techniques. Students will work hands-on on a series of projects to develop 3-D design skills and to create works that express individual ideas. Emphasis will be on metalsmithing as an art medium. Students will study metalsmithing techniques to create fine art jewelry and metal sculpture. Course covers metalsmithing processes, materials, tools and equipment, as well as historic and contemporary jewelry design. Topics include sawing, cold connecting sheet metal, stone setting, enameling, soldering, casting, craftsmanship, and studio safety.

750 Ceramics Grades 9 - 12

Credit: 0.5

Prerequisite: Art Introduction

This course will serve as an introduction to the process of working in clay. Hand building techniques including coil, slab and slip cast as well as additive and/or subtractive sculptural techniques will be explored. Attention to detail, craftsmanship and a serious dedication to the art process is expected.

742 Drawing I Grades 9 - 12

Credit: 0.5

Prerequisite: Art Introduction

Drawing I is designed to improve student drawing techniques, as well as teach students how to compose original works of art. Emphasis is placed on the process of seeing (visualization), the Elements and Principles of Art, different drawing media and application techniques. Attention to detail, craftsmanship, and a serious dedication to the art process is expected. Students are also required to have a sketchbook for the course.

744 Drawing II Grades 10 - 12

Credit: 0.5

Prerequisite: Drawing I

A course that extends the concepts and techniques covered in Drawing I. Extensive study of formal compositional principles: balance, unity, variety, rhythm, and movement will be explored. Creative application of materials and techniques will be employed in the creation of more in depth illustrative projects. Attention to detail, craftsmanship, and a serious dedication to the art process is expected. Students are also required to have a sketchbook for the course.

758 Graphic Design - Illustration

Grades 9 - 12

Credit: 0.5

Prerequisite: Recommended Art Introduction

Digital Art Illustration. Students learn how to use the tools to create digital artwork that can be used in web design, print media, and digital screen design. In this Illustration course, it will concentrate on the high-end capabilities of Adobe software as an illustration, design and vector drawing tool. Students will learn how to use the software: Adobe Illustrator & Adobe Fresco to create high quality illustrations, logos, and other custom artwork. This digital illustration course gives students an overview of how computer software is used in illustrations. A variety of imaging programs are discussed, and students learn how to digitally create vector images, apply colors, use textures and take advantage of the flexibility associated with computers. Instruction takes place primarily through class projects and demonstrations. It is recommended that you also sign up for the course Graphic Design Photoshop to complete the understanding of Graphic Design. Students will need to successfully complete this course and Graphic Design Photoshop as a prerequisite for Graphic Design II.

759 Graphic Design - Photoshop

Grades 9 - 12

Credit: 0.5

Prerequisite: Recommended Art Introduction

Digital Art in Photoshop. This course is an art course that concentrates on the high-end capabilities of Adobe Photoshop as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos and graphics. Students in this course will also explore color theory, digital painting. It is recommended that you also sign up for the course Graphic Design Illustration to complete the understanding of Graphic Design. Students will need to successfully complete this course and Graphic Design Illustration as a prerequisite for Graphic Design II.

757 Graphic Design II Grades 9 - 12

Credit: 0.5

Prerequisite: Graphic Design-Illustration & Graphic Design-Photoshop

Advanced Digital Art. This course is a continuation of concepts learned in Graphic Design-Photoshop & Graphic Design-Illustration. Applying basic design concepts to the presentation of informative or persuasive material, students will develop their craft in practicing effective visual communication. The course emphasizes practical assignments that examine applied problem solving and professional solutions for graphic designers.

Hand Lettering & Illustration 758 1

Grades 9 - 12

Credit: 0.5

This course is designed to show students how to create and design like an illustrator while incorporating hand-lettering techniques. Illustration is a fancy name for commercial art such as a book, greeting card, magazine, advertising, product packaging, or branding. Hand-lettering refers to the art of drawing letters by hand. This course will combine illustration and hand-lettering to help students define their personal style by having choice over which projects they wish to create. They will also participate in creativity-boosting drawing exercises that will help hone a student's style through exploring a myriad of different art materials, techniques, and equipment such as painting with inks, creating in virtual reality, and printmaking. This class is designed for the student who wants to see their creativity be pushed, to learn what it looks like to be a working illustrator, and to explore new ways of creating art through experimentation.

741 Painting I Grades 9 - 12

Credit: 0.5

Prerequisite: Art Introduction

This course will place emphasis on color dynamics through the study of various color relationships beyond those already learned in Art Introduction. Brush stroke techniques and blending color to create form and depth will be emphasized and practiced. Students are encouraged to carefully plan each project through sketching and experimentation with color. Skills learned in Art Introduction are essential to the success of this course. Attention to detail, craftsmanship and a serious dedication to the art process is expected.

745 Grades 9 - 12 Painting II

Credit: 0.5

Prerequisite: Painting I

A course that extends the concepts and techniques covered in Painting I. It incorporates various paint application techniques while focusing on compositional organization. Students will be exposed to numerous styles and approaches to historical and contemporary painting. Attention to detail, craftsmanship and a serious dedication to the art process is expected.

746 Photography I Grades 10 - 12

Credit: 0.5

Prerequisite: Grade 10

This photography course introduces students to photography through a combination of lectures, demonstrations, assignments, and critiques. Students will learn to see photographically via an exploration of the basic tools, techniques and aesthetics of photography, with an emphasis on the creative use of camera controls, this course will also introduce students to the digital darkroom post processing of digital captures. Methods of transferring files from camera to computer, basic digital asset management, image editing tools using Adobe Lightroom and Photoshop, optimizing files for print and screen, image sharpening, proper understanding of black and white tonal scale, methods of color photography. All photography is completed in natural light during the daylight after school hours. During the in-person class time, students will work in the digital dark room to process photos & learn about new photography concepts. Students must own a digital camera for this course, not a phone camera. The digital camera must be at least 10mp and have at least a 10x optical (not digital) zoom. Printing is included. Required \$20.00 lab fee.

746 Photography II Grades 10 - 12

Credit: 0.5

Prerequisite: Photography I

This DSLR photography course is a level 2 course for students who have successfully completed photography 1. Photography will be taught through a combination of lectures, demonstrations, assignments, and critiques. Students will pair seeing photographically with the more technical side of operating a DSLR camera. This course will be an exploration of camera controls, such as aperture, shutter speed and ISO (exposure) and focusing techniques. The class will have in-person photography lab assignments each week. Photography Photoshoot assignments will also be completed in natural light during the daylight after school hours. During the in-person class time, students will work in the lab and in the digital dark room to process photos in Adobe Lightroom and Adobe Photoshop. Students must own a DSLR camera for this course. The DSLR camera will need: MANUAL mode, any lens will be satisfactory. The camera must be at least 10mp. Printing is included. Required \$20.00 lab fee.

Business/Technology

580 Accounting I Grade 10 - 12

Credit: 0.5

Prerequisite: Introduction to Accounting

This is a continuation of Intro to Accounting where students will learn the procedures used to keep the financial records for a merchandising business. Basic principles learned can also be applied to various personal finances. It is highly recommended that students planning to major in any business or business-related major in college take Intro to Accounting, as Accounting is a required course for all college business majors.

556 College & Career Readiness

Grade 11

Credit: 0.5

The goal of this course is to address the PAAcademic Standards for Career Education & Work and Financial Literacy. If students are to succeed in the workplace, there are certain skills that they need to obtain prior to graduation from high school in these four areas: Career Awareness & Preparation, Career Acquisition, Career Retention & Advancement, and Entrepreneurship. In addition, students should receive a solid foundation in financial literacy to live independent financial lives as adults in these six critical areas: Money Management, Risk Management, Earning Income, Borrowing Money, Financial Institutions, and Saving & Investing.

596 Digital Literacy Grade 9 - 12

Credit: 0.5

This course will help students learn essential software applications and technology skills for personal, academic, and professional success and help increase their productivity. Word processing and desktop publishing applications will be used to create, edit, manipulate, and format personal, academic, and business documents. Students will create a digital presentation which includes appropriate text formatting, graphics, animation, and public speaking skills. Formulas will be used in spreadsheet applications to solve mathematical problems and evaluate investments and loans and a variety of charts will be created.

582 Introduction to Accounting

Grade 9 - 12

Credit: 0.5

This is an introductory accounting course where students will learn the concepts and procedures used to keep the financial records for a service business. Basic principles learned can also be applied to various personal finances. It is highly recommended that students planning to major in any business or business-related major in college take Intro to Accounting, as Accounting is a required course for all college business majors.

593 Introduction to Business

Grade 9 - 12

Credit: 0.5

This course provides opportunities to learn and experience a variety of topics in the field of business. Students will use an online simulation to invest in the stock market and learn about stocks, bonds, mutual funds, and help prepare them for financially independent futures. Types of businesses, business in a global economy, and business management will be covered. Students will examine the fundamental principles of entrepreneurship and small business, the characteristics of an entrepreneur, and how to identify business opportunities. Students will use an online simulation to run a retail business, explore the operational aspects of starting a business, and write a business plan. Students will be researching, problem-solving, collaborating, and presenting throughout the course.

191 Newspaper Credit: 0.5

In this hands-on course students will produce our school newspaper, the Lancer Ledger. This course combines the fundamental elements of journalism concepts, business aspects of newspaper production, and desktop publishing with essential design basics to give students an authentic experience in the field of journalism. While engaging as staff writers and participating in the editorial aspects of newspaper production, students will explore various styles and techniques of journalistic craft. Students will develop business and marketing strategies appropriate for newspaper circulation, advertising, and budgeting including the use of social media as a marketing tool. Students will learn to use the robust, industry-standard software, Adobe InDesign to create visually enticing print media, and will earn to maintain a WordPress-based website. Students taking this class should have a high level of maturity and an interest in writing articles for a student

590 Retail Management Grades 9 - 12

Credit: 0.5

This course applies classroom theory to the actual operation of the school's student store. Students assume full responsibility for the entire operation of the store - advertising and promotions, accounting, merchandising, inventory, pricing, purchasing, scheduling, and selling.

562 Social Media and Marketing

Credit: 0.5

In today's rapidly-evolving media landscape, social media has not only become a fundamental tool for communication, but a must-have skill in a multitude of industries. In this class, students will be introduced to marketing and its essential role in the operation of a business and in our economy. They will gain insight into the functions of marketing and will be introduced to basic marketing concepts including the marketing mix and target marketing. They will then dive into the role of social media in marketing communications, learning how to use social media and content marketing to grow a business and engage with customers. Students taking this course must have access to a smartphone as they will be learning to create a social media presence for businesses using popular outlets such as Facebook, Twitter, Snapchat, Pinterest, You Tube,

Grades 9 - 12 050 Study Skills

Credit: 0.5

Instagram, etc.

Study Skills is a course designed to help students acquire the necessary "student skills" to become successful in school and later in the workplace. Topics include goal setting: time management; effective study environment, learning styles; effective note taking, test preparation. and memory devices. Students will use the WIN program's soft skills to learn about the behavioral, attitudinal, and social skills employers are seeking.

Computer Science

338 **AP Computer Science Principles**

Credit: 0.5

AP Computer Science Principles is a semester course designed to introduce new and experienced programmers to all aspects of app development while helping prepare them for the AP Computer Science Principles exam. Students choose any language and complete a self-paced curriculum that involves creating apps and other programs, along with learning various aspects of computer science.

360 Coding I Grades 9 - 12

Credit: 0.5

Earn a certification in web development by completing tutorials and projects by using HTML and CSS. By the end of the course, you will be able to create various web apps that can be accessed from any device, including a personal portfolio page that can showcase your skills in coding.

Grades 9 - 12 361 Coding II

Credit: 0.5

Prerequisite: Coding 1

Earn a certification in JavaScript Algorithms by completing tutorials and tasks using the JavaScript language. You can alternatively choose another language and complete the same projects, just without certification. By the end of the course, you will be well versed in the language and you will create your own functional app, either a game or other app of choice.

Computer Animation 349 Grades 9 - 12

Credit: 0.5

Prerequisite: Coding 1

Students will use a professional computer animation tool to study two-dimensional animation as it pertains to web development. The animation will be used to enhance the content and design of a web page.

480 Drone I Grades 11-12

Credit: 0.5

Prerequisite: Algebra I

Drone I is a course designed to explore a variety of subjects as they relate to drones. This course will include elements of the following topics: Safety, Battery Chargers and Connectors. Design and Documentation, Drone Overview and Flight Basics, Common Sense Flying, Fundamentals of Flight, FAA Regulations, Beginning Flight Skills, Transmitters and Receivers, Propellers, Drone Maintenance and Battery Care. While using a real toy drone a student will then learn the basic principles of aerodynamics.

481 Drone II Grades 11-12

Credit: 0.5

Prerequisite: Algebra I and successful completion of Drone I

Drone II is a course designed to explore a variety of subjects beyond the Drone I course as they relate to drones. This course will include elements of the following tonics: Review of Flight Basics and Common-Sense Flying, Advanced Flight Skills, Electric Motors, Flight Controllers, Air Frames, Cameras and Gimbals, Efficiency versus Performance, Ground Control Stations and First-Person View. While using a real toy drone a student will then learn the basic principles of aerodynamics.

Grades 9 - 12

Grades 10 - 12

Grades 9 - 12

Credit: 0.5

Prerequisite: Art Introduction

Digital Art Illustration. In this course students will use Adobe Illustrator to create digital art Illustrations. Classes are designed to give students an understanding of composition, color, design graphics, product design, logo design, typography, character design, poster design, and how to draw digitally using vector based graphics. Students will need to take both this course along with Graphic Design-Photoshop to be eligible for the Graphic Design II course. Art Introduction is recommended prior to taking this course, but not required.

759 Graphic Design- Photoshop

Grades 9 - 12

Credit: 0.5

Prerequisite: Art Introduction

This course is an introduction to art in the digital world. Students will learn how to create digital artwork using the graphic design industry standard program Adobe Photoshop. Students will learn to manipulate photographs as well as create digital photographic artwork. Classes are designed to give students an understanding of color, design, and digital painting. This course recommends that students have a digital camera: 10.0 megapixels, 3x optical zoom or higher or students may use the school issued IPad (iPad photos will not capture the same quality as an actual camera) to capture photos for the assignments. Students will need to take both this course along with Graphic Design-Illustration to be eligible for the Graphic Design II course. Art Introduction is recommended prior to taking this course, but not required.

757 Graphic Design II

Grades 9 - 12

Credit: 0.5

Prerequisite: Graphic Design- Illustration & Graphic Design- Photoshop

This course is a continuation of the concepts learned in Graphic Designed I. Students will take their digital art creation to the more advanced level. More independent/creative projects will be encouraged. This course recommends that students have a digital camera: 10.0 megapixels, 3x optical zoom or higher.

English

168 Acting & Stage Design

Grades 9 - 12

Credit: 0.5

This course will approach acting as the realistic portrayal of emotions. Students will improve their volume, facial expressions, gestures, and movement to present real emotions to an audience. Course material includes styles and techniques of acting along with a technical knowledge of stage lighting and set design. Each student will perform five monologues and will act in several group scenes including a combat situation.

174 AP Seminar Grades 10 - 12

Credit: 1.5

Develop and practice the skills in research, collaboration, and communication that you'll need in any academic discipline. You'll investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team.

169 Creative Writing Grades 9 - 12

Credit: 0.5

This course is an introduction to creative writing. Students will be given the opportunity to experiment with a variety of forms, understanding that the creativity lies as much in the arrangement of the words, sentences, and paragraphs, as it does in the metaphors, the details, and the descriptions that they bring to the page. There will also be a strong focus on revision. Throughout the class, students will revise and polish works in preparation for a final portfolio. Assessment will be based primarily upon this final portfolio, though the students will also complete exercises and analyses throughout the course.

102E English 9 Grade 9

Credit: 1.0

English 9 is an on-level study of literature (short stories, the novel, nonfiction, and poetry); vocabulary, grammar, speech, and composition. A study of *The Tragedy of Romeo and Juliet* and the novels *A Day No Pigs Would Die, The Car, Secret Life of Bees* and *The Autobiography of Miss Jane Pittman* are included. Major emphasis is placed on the development of reading comprehension, vocabulary building and sentence/paragraph writing.

101 English 9 Advanced

Grade 9

Credit: 1.0

This course is a more intensive study of grammar, essay development, annotation and analysis of short stories, novels, and drama. Comprehension of nonfiction texts is required. Students will also study vocabulary and present performance tasks. Mastery of the parts of speech, mechanics of writing and paragraph writing is expected at this level. Composition will be in the informative, reflective, and persuasive modes. The student will also gain skill in research. The advanced course is designed to develop the skills necessary for college. Reading List: *The Tragedy of Romeo and Juliet, The Secret Life of Bees, To Kill a Mockingbird, Born a Crime, Educated, and I am Malala.* Writing Tasks: literary analysis essay, reflective writing, summaries of nonfiction texts, and annotated bibliography.

100 English 9 Accelerated

Credit: 1.0

Grade 9

English 9 Accelerated is a rigorous course designed to introduce students to literary analysis. The student will be challenged to develop skills to read, analyze and interpret a variety of literary selections from different genre. Composition study will focus on writing in a variety of discourses: narrative, informational, and persuasive. Students will also be required to write an annotated bibliography and a research paper. This course will continue student's progress in the study of grammar, usage & vocabulary. The accelerated class is designed to prepare students for advanced placement testing in their senior year. Reading List (in addition to an anthology) may include: The Autobiography of Miss Jane Pittman, The Secret Life of Bees, The Tragedy of Romeo and Juliet, I Am Malala, Narrative in the Life of Frederick Douglass, To Kill a Mockingbird, and The Odyssey.

112 English 10 Grade 10

Credit: 1.0

Prerequisite: English 9

English 10 Academic is a more intense study of grammar, short stories, drama, the novel, poetry, vocabulary, and writing. The course is designed to teach communication skills for students going immediately to the workplace or a one-two year technical training program following graduation. Reading List: (in addition to an anthology) Bless the Beast and the Children, Julius Caesar, and independent selections

111 English 10 Advanced Grade 10

Credit: 1.0

Prerequisite: English 9

English 10 Advanced allows a student to further develop writing, research and literature skills. Students explore world literature in thematic units. The purpose of the class is to build the students' abilities to identify the themes and other literary devices used in poetry, dramas, short stories, and novels and to apply these skills in their own writing assignments and speeches. Students will also write a content-related research paper. The Advanced courses are designed to develop the skills necessary for college. Reading List: Lord of the Flies, Technopoly, MacBeth, and two additional novels from a reading list.

110 English 10 Accelerated

Credit: 1.0

Prerequisite: English 9

English 10 Accelerated is a rigorous study of major world authors and thinking and writing skills. Its purpose is to build students' ability to identify the themes of dramas, short stories, essays, and novels to develop logically their own themes in writing assignments and speeches. Students will also write a literary research paper. Accelerated classes are designed to prepare students for Advanced Placement testing in their senior year. Reading List: Hamlet, Oedipus Rex, and four additional novels or plays from an outside reading list. Students will exhibit the strength of their outside reading skills in four oral exams administered outside of class.

122 English 11 Grade 11

Credit: 1.0

Prerequisite: English 10

English 11 Academic traces the development of American literature from the colonial period to the present. The students will examine the values, conflicts, and ideas within the literature that are uniquely American, and through this examination, discover that American literature is often a reflection of its political and historical geographic climate. The class will have a strong focus on writing. Students will create focused compositions that include specific, substantial, and sophisticated content. At times, they will be asked to apply ideas from the literature to their own lives. Students will also demonstrate an understanding of purpose and audience and adjust their style accordingly. Ultimately, the course is designed to develop critical thinking skills necessary for technical school, college, or the workplace. In addition to readings from the anthology, students will read contemporary nonfiction selections, as well as the following: The Scarlet Letter, The Great Gatsby, and Of Mice and Men.

121 English 11 Advanced Grade 11

Credit: 1.0

Prerequisite: English 10

English 11 Advanced provides a program designed to give the student college preparatory instruction. It gives the student a survey of American literature, analytical composition exposure, and appropriate vocabulary building. It relies on analytical thinking strategies and emphasizes themes unique to American literature. In addition to the fictional texts, students will also be exposed to appropriate and significant non-fiction historical texts. The Advanced courses are designed to develop writing and research skills necessary for college. Reading List: The Scarlet Letter, The Crucible, Walden, The Great Gatsby, The Catcher in the Rye, Tuesdays with Morrie, The Five People You Meet in Heaven, The Red Badge of Courage, and The Adventures of Huck Finn.

Grade 10

Grade 11

Credit: 1.0

Prerequisite: English 10

English 11 Accelerated traces the development of American literature from the colonial period to the present. In this class, students will examine the values, conflicts, and ideas within the literature that are uniquely American. They will recognize that American literature mirrors its political and historical climate, and they will recognize literature's influence on social and cultural parameters. The class will have a strong focus on writing. Students will be asked to form insightful discussions following preliminary reading, and they will be required to support their views with specific and substantial content. At times, they will also be asked to apply ideas from the literature to their own lives. Throughout the semester, students will complete a number of formal compositions that require them to show an understanding of purpose and audience and adjust their style accordingly. Accelerated English classes are designed to prepare students for college, post- graduate work, and in the more immediate future, Advanced Placement testing in their senior year. In addition to readings from the anthology, students will read contemporary nonfiction selections, as well as at least five of the following works: *The Crucible, Walden, The Adventures of Huckleberry Finn, Their Eyes Were Watching God, Of Mice and Men, The Great Gatsby, and The Catcher in the Rye.*

132 English 12 Grade 12

Credit: 1.0

Prerequisite: English 11

English 12 Academic is a course through which students will continue to develop reading skills and expand vocabulary skills. The course will include British Literature from the Anglo-Saxon period through the 20th Century. Expository writing skills will be reinforced and grammar usage will be integrated with the composition units. Reading List: *Macbeth, Beowulf, The Canterbury Tales, and Gulliver's Travels*.

121 English 12 Advanced Grade 12

Credit: 1.0

Prerequisite: English 11 Advanced & proficient or advanced score on PSSA/Keystone. Students moving up from English 11 must have earned an "A" or "B" in the course.

English 12 Advanced is a literature driven, writing intensive course designed to both familiarize students with the central themes at work in the development of British literature and prepare students for the demands of academic writing. The course requires that students complete daily reading assignments. Students will also frequently be called upon to write about the literature they read--both formally in essays and informally in journals. Finally, students will be given the opportunity to study the structure of the language as we conduct a review of traditional grammar. Students will read representative works from the major literary periods which may include but are not limited to Beowulf, The Canterbury Tales, Macbeth, Gulliver's Travels, Heart of Darkness, and A Portrait of the Artist as a Young Man. The course also includes selections of contemporary nonfiction and literary criticism.

173 01 AP Literature & Composition

Grade 11 - 12

Credit: 1.0

Prerequisite: English 10 Accelerated and proficient or advanced score on the Keystone. Students moving from English 11 Advanced must have earned an "A" or "B" in the course.

AP English Literature and Composition is a literature driven writing intensive course designed to both meet the curricular requirements detailed in the AP English Literature and Composition course description and prepare students for the AP English Literature & Composition test. Literature: Students will read, respond to, analyze, interpret, and evaluate works of American, British, and Continental literature from the Anglo-Saxon Period to the present, using a variety of critical approaches, all based on a close reading of the text. Our primary approach will be formal, considering ways literary structures, elements, and techniques work to convey themes. We will also consider literature in its social and historical context by considering ways it reflects the human experience within a larger process of change. Contemporary literature criticism and nonfiction works will also be included as part of the course. Writing: Students will keep an informal, exploratory reading journal, which traces key themes and ideas as the course unfolds. We will also frequently write timed, in class explications similar to the free response items on the AP exam. Students will also complete two longer, more comprehensive essays: a critical explication of a work of literature which synthesizes original insight and interpretations found researching published criticisms; also a comparative evaluation of two works, targeting specific aesthetic or rhetorical criteria. Core Skills: The course also includes an ongoing vocabulary program, a review of traditional grammar and usage, and revision and editing activities addressing style, tone, and rhetorical issues in the development of student essays.

167 Public Speaking Grades 9 - 12

Credit: .5

In this course, the student will develop skills in public speaking, debate, interpersonal communication, and oral interpretation. Students will develop their diction, volume, organization, and style. Each student will deliver a variety of speeches including, informative, persuasive, and oral interpretation.

180 SAT Prep Grades 11 - 12

Credit: .5

This course is designed for juniors and seniors planning to take the Scholastic Aptitude Test (SAT) at the conclusion of the class. Students will learn test taking strategies and will receive review in the reading, writing, and math portions of the test.

165 Yearbook Grades 10 - 12

Credit: 1.0

Prerequisite: "A" or "B" in last completed English course, preferably the advanced or accelerated levels

Yearbook is an in-depth study of all the skills needed to produce a professional journalistic-style publication. Strong emphasis is placed on writing copy, photo captions and headlines. Page design, layout, photo cropping, scheduling and financing are explored, mastered and applied to the production of the Imperator, the General McLane High School Yearbook. Because time demands exceed the classroom hours allotted, interested students should contact the teacher for schedule details. Evaluation is based on copy submissions, page designs, participation in advertising and book sales campaigns, and the ability to meet deadlines.

Family & Consumer Science

680 Child Development I

Grades 9 - 12

Credit: 0.5

Child Development and Parenting is a nine week, half credit course designed to provide students with information regarding the mental, physical, and social development of children from pregnancy through age 3. In addition, content will be taught regarding parenting such as nurturing, discipline, schooling, child abuse, and parental support systems. This course is designed for any student who desires to become a parent in the future and/or wishes to obtain a career in childcare/education.

681 Child Development II

Grades 10 - 12

Credit: 0.5

Prerequisite: Child Development I

Child Development II continues to peak your interest in the amazing growth stages and challenges of young children. While learning to encourage and engage children in physical, intellectual, social and emotional growth; this course will also explore child play, singing, reading and nutrition. Exploring career options that focus on the knowledge of Child Development is necessary component for those interested in most any career opportunity.

640 Culinary Arts I Grades 9 - 12

Credit: 0.5

Culinary Arts is a nine week, half credit course that will utilize a combination of classroom learning and kitchen laboratory experiences to provide students with a base level of knowledge in food and food preparation. Students will be able to develop and refine their culinary skills with a goal of becoming self-sufficient in the home kitchen. The hands-on component of this course will allow for students to practice the basic skills they have learned. Areas of study will include safety and sanitation, tools and equipment, small appliances, and measurement techniques and equivalents.

641 Culinary Arts II Grades 11 - 12

Credit: 0.5

Prerequisite: Culinary I

Culinary Arts II is a nine week, half credit course that will expand upon the culinary skills gained in Culinary Arts I. Students will participate in both classroom learning and laboratory experiences to gain more comfort in the field of food preparation. In addition to refining culinary skills used in the home kitchen, students will have the opportunity to experience food related careers and job opportunities. Areas of study will include tools, equipment, and appliances, cookies and cakes, cake decorating, meal planning, and catering.

694 GM Cafe Grades 11 - 12

Credit: 0.5

GM Cafe is a nine week, half credit course that will allow students to gain experience in food preparation, food service, and retail management. Students will utilize the skills learned in Culinary Arts I to successfully operate and manage the GM Cafe'. Students who are enrolled in the cafe' class will be able to develop and strengthen both culinary art skills and soft skills. Areas of study will include recipe reading, measurement techniques, menu planning, food preparation, customer service, cooperation and problem solving. The cafe is in operation each morning from 7:30-7:55 and during intersession. Students enrolled in the cafe' class must be able to arrive at school by 7:15 on assigned days.

645 Lifetime Nutrition Grades 9 - 12

Credit: 0.5

Lifetime Nutrition is a nine week, half credit course designed to assist students in developing a

foundation of basic nutritional knowledge. The goal of the course is to enable students to make healthier decisions regarding food and nutrition. Students will evaluate the role food plays in their lives and how to make positive decisions regarding food choices and eating styles. Focus will be given to learning of the essential nutrients and their functions in the human body. In addition, students will participate in cooking labs to gain exposure to various culinary techniques and foods that can be part of a healthy lifestyle. Areas of study will include nutrition basics, reading food labels, types of diets and eating patterns, health conditions, food substitutions, and meal planning.

156 Senior Seminar Grade 12

Credit: 0.5

Senior Seminar is a nine week, half credit course designed to create a smooth transition from high school into the "real world." Units of study have been selected to assist students in creating a foundation of knowledge and skills that will better equip them to handle adult challenges and obstacles. Areas of study will include Healthy & Unhealthy Relationships, Issues Affecting Young Adults, Community Involvement, Personal & Career Success, Financial Literacy, Family Studies, and Adulting 101.

Health & Physical Education

Adaptive Physical Education

Grades 9 - 12

Credit: 0.5

This course is designed to give the adaptive students a complete physical fitness experience. Teachers work in conjunction with other support staff to facilitate the needs of each individual student.

812 Extreme Fitness Grades 11 -12

Credit: 0.5

Extreme fitness is an unique opportunity for Seniors to fulfill their Physical Education credit with a consistent, challenging workout. This class is for anyone interested in a 5 day a week program to maintain or improve their fitness level. Classes will consist of workouts from popular videos including, but not limited to, Insanity, P90X, The 21 Day Challenge, and The Asylum. Be prepared to set a fitness goal and then blow it away.

Fitness & Weight Training I

Grades 9-12

Credit: 0.5

This course is designed for students to develop and implement a lifetime personal fitness plan incorporating both aerobic and anaerobic elements. Students will gain an in-depth knowledge of weight training techniques and exercise physiology. Not recommended for athletes in-season.

800 Health 9 Grade 9

Credit: 0.5

This course meets in two nine-week sessions, in conjunction with Course #799. One session will be spent on standard first aid, personal safety and CPR. The 2nd session involves the investigation, responsibility and control of the students' behavior in drugs, mental health & human growth & development.

821 Health 11 Grade 11

Credit: 0.5

This course meets every other day for two nine-week periods. Topics include physical fitness, nutrition, wellness, death & dying, substance abuse, sexuality and other current health issues.

799 Physical Education 9 Grade 9

Credit: 0.5

This course meets in two nine-week sessions, in conjunction with Health 9. The emphasis is on physical fitness and team sports taught through a development approach with the following activities: basketball, football, soccer, softball, volleyball, weight room activities, recreational games, tumbling, team handball, and physical fitness testing.

810 PE 10/Drivers Education Grade 10

Credit: 0.5

Classroom driver's education affords the students an instructional background for driving a car. This course is taken in conjunction with PE 10. The PE 10 course meets for 4 1/2 weeks and the emphasis is on physical fitness and the team sports offered in PE9. There is also more emphasis on character education, team cohesiveness and cooperative games

820 Physical Education 11 Grade 11

Credit: 0.5

This course meets every other day for two nine-week terms. The emphasis of this course is on physical fitness and refinement of team cooperation and lifetime activities taught through individual sports. Activities include archery, aerobics, basketball, golf, self defense, soccer, softball, tennis, volleyball, speedball, ultimate Frisbee, and ultimate football.

830 Physical Education 12 Grade 12

Credit: 0.5

This course meets every day for one nine weeks. The emphasis of this course is on refinement of team cooperation and lifetime activities taught through individual and recreational sports. Activities include archery, aerobics, basketball, golf, self defense, soccer, softball, tennis, volleyball, team handball, Frisbee, bowling, football, and badminton.

813 Recreational Sports Grades 9 - 12

Credit: 0.5

Recreational Sports is a Physical Education class that focuses on individual, small and large team sports that can be performed at any age. The objective of this course is to teach the rules and skills of each activity so students will have the opportunity to remain physically active throughout the rest of their lives. In this course, students will be introduced to, and will learn the basics of, Tennis, Pickleball, Disc Golf, Badminton, Nitroball, Volleyball, Basketball, and Softball among other activities. Some of these activities can not be played during the winter months.

Mathematics

301 Algebra I Grades 9 - 12

Credit: 1.0

Prerequisite: Successful completion of pre-algebra with a 70% or better

Algebra I is a one-semester, one-credit course designed as a beginning study of Algebra. The course covers real numbers, variables, linear equations and inequalities, linear systems, exponents, functions, factoring, and data analysis. Emphasis is placed on real-life problem solving strategies and graphing.

311 Algebra II Grades 9 - 12

Credit: 1.0

Prerequisite: Algebra I

Algebra II is a one semester, one credit course for students who have successfully completed Algebra I and Algebra II. The course covers functions (linear, quadratic, polynomial, rational, exponential, and logarithmic) and graphing, analysis, and matrix operations utilizing hands-on experiments, technology, creating mathematical models for real world applications and team explorations. The course is designed to introduce students to the topics needed for successful work in Geometry.

300 Algebra II Accelerated Grades 9 - 12

Credit: 1.0

Prerequisite: Algebra I, teacher recommendation

Algebra II Accelerated is a one-semester course dealing with the theory of algebra. This is a rigorous course designed to provide students with the prerequisite skills needed for the successful completion of higher level math courses. The main topics include linear systems and matrices, polynomial, exponential and rational functions and equations, a data analysis, and probability.

334_01 AP Calculus AB Grades 11 - 12

Credit: 1.0

Prerequisite: Advanced Algebra/Trig Accelerated or Trig/Precalculus with 80% or better

AP Calculus AB is a weighted, advanced placement, elective course covering the calculus of a single variable. This course has been audited and approved by the College Board as an advanced placement course and its curriculum is recognized by colleges and universities. The content covers the same content as first level college calculus classes. Numerical, graphical, analytical and verbal representations will be used to present the concepts of differential and integral calculus including rates of change, limits, derivatives and their applications, antiderivatives, techniques of integration and applications of definite integrals. Computers and graphing calculators will be utilized. The syllabus of the course satisfies the College Board's requirements for Advanced Placement Calculus AB. A Texas Instruments TI-84 Graphing calculator is required for this course.

334_02 AP Calculus BC Grades 11 - 12

Credit: 1.0

Prerequisite: AP Calculus AB and teacher recommendation

AP Calculus II BC is an advanced placement, one-credit weighted elective course designed to allow students to explore topics typically covered in second or third level college calculus classes. This course has been audited and approved by the College Board as an advanced placement course and its curriculum is recognized by colleges and universities. The course covers differential equations, hyperbolic functions, advanced techniques of integration, infinite series, complex implicit relations and their applications, parametric functions, and polar equations. Applications of calculus to other disciplines will be explored. The syllabus of this course will follow the outline of topics provided by the college board for AP Calculus BC. Students will also be provided the opportunity to prepare for the AP Calculus exam if they elect to take the exam. A Texas Instruments TI-84. Graphing calculator is required for this course.

351 Applied Algebra Part I

Credit: 1.0

Applied Algebra Part I is a one-semester, one-credit course designed as a beginning study of Algebra. The course covers operations with real numbers, solving and graphing, linear equations, statistics and probability. Emphasis is placed on strengthening basic skills, real life problem solving strategies and graphing.

Grades 9 - 10

352 Applied Algebra Part II

Credit: 1.0

Prerequisite: Successful completion of Applied Algebra Part I

Applied Algebra Part II is a one-semester, one-credit course designed as a continuation of Applied Algebra Part I. The course covers linear equations and inequalities, linear systems, functions, factoring, probability, and coordinate geometry. Emphasis is placed on real-life problem solving strategies and graphing.

356M Consumer Math Grades 9 - 12

Credit: 1.0

Prerequisite: Successful completion of Applied Algebra Part II

Applied Algebra Part III is a one-semester, one-credit course designed as a continuation of Applied Algebra Part II. The course covers applications of geometry, quadratic functions, and exponential growth and decay. Emphasis is placed on real-life problem solving strategies and graphing.

321 Geometry Grades 9 - 12

Credit: 1.0

Prerequisite: Algebra II or Applied Algebra Parts I, II, and III

Geometry is a one–semester, one–credit course for students who have successfully completed Algebra II or Applied Algebra Parts I, II and III. The course presents geometry by using a guided-discovery approach, whereby students work with the tools of geometry and discover geometric properties by experimentation and observation. Real world application, technology, mathematical models and team explorations are utilized. This course is designed to introduce students to the topics needed for successful work in Trigonometry and Pre-calculus.

310 Geometry Accelerated

Grades 9 - 12

Grades 9 - 12

Credit: 1.0

Prerequisite: Algebra II Accelerated

Geometry Accelerated is a one-semester, one-credit course for students who have successfully completed Algebra II accelerated. The course is rigorous and covers all topics of traditional plane geometry and many topics of solid geometry. Students are expected to know and apply previously learned Algebra skills in a geometric setting. Logic and problem solving is emphasized through content knowledge, formal and informal proof, utilizing manipulatives and application problems.

336 Math K-NEXtions Grades 10 - 12

Credit: 0.5

This course is a 9-week math elective class. It will use a hands-on approach to discovering engineering and mathematical concepts. Students will work on projects together in teams: brainstorming, designing, building, testing, analyzing, and rebuilding. Many projects will use K-NEX pieces to construct however other everyday objects will be used also. There will be an overarching theme of STEM (Science, Technology, Engineering, Mathematics) each project uses. Teamwork and communication are two soft skills this course will focus on.

350 Statistics Grades 11- 12

Credit: 1.0

Prerequisite: Algebra I

Students will explore contemporary issues through statistics and data analysis. Descriptive and inferential statistics will be covered in the course. Topics include measures of center, measures of variation, probability, discrete and normal probability distributions, confidence intervals, hypothesis testing, correlation and regressions. The TI-84 and statistical software will be used to analyze statistical data.

320M Trigonometry Acc Grades 10 - 12

Credit: 1.0

Prerequisite: Successful completion of Geometry Accelerated and teacher recommendation

Trigonometry Accelerated is a course that builds on the skills learned in Accelerated Algebra 1, Accelerated Algebra 2 and Accelerated Geometry. It is a fast paced and academically demanding course dealing with topics such as linear functions, quadratic functions, exponential functions, logarithmic functions, rational expressions and functions, radicals, sequences, series and the trigonometric functions and their inverse functions. This is a rigorous course designed to provide students with prerequisite skills as needed for the successful completion of calculus higher-level math courses.

Music

722 Brass Ensemble Grades 9-12

Credit: 0.5

Prerequisite: Ability to play a brass instrument

This course will allow the student to work on a solo for his/her instrument as well as perform in a small group. Students may choose to learn a second instrument. Performance may be required. Combinations of brass instruments will be explored.

730 Broadway Dinner Choir

Credit: 0.5

Prerequisite: Participating in one other elective choir

Students in this choir will prepare for and perform at the annual Broadway Dinner. Opportunities are available for solo, small group and full choir singing. To participate in this choir, you must also be registered for a large choir group. Students are required to provide their own costume(s). This may require a rental fee or purchase of materials.

726 Concert Band Grades 9 - 10

Credit: 0.5

Prerequisite: Ability to play band instrument & enrollment in marching band in 9th-grade Emphasis is placed on the development of basic skills.

724 GM Jazz I Grades 9 - 10

Credit: 0.5

Prerequisite: Audition and enrollment in concert band or symphonic wind ensemble and/or instructor permission
This band will perform big band jazz music on an intermediate level of difficulty. Performances may be required of all members including festivals, concerts and community events.

725 GM Jazz- Big Band Grades 10 - 12

Credit: 0.5

Prerequisite: Audition and enrollment in concert band or symphonic wind ensemble and/or permission of instructor. Priority will be given to students participating in marching band and concert band or symphonic wind ensemble.

Some sessions on jazz history and improvisation will be held. The band participates in competitions and numerous performances throughout the semester. Instructors may permit students based upon ability level.

738 Guitar Ensemble Grades 9 - 12

Credit: 0.5

Prerequisite: Interest to play a stringed instrument

This course will allow the student to work on a solo for his/her instrument as well as perform in a small group. Students may choose to learn a second instrument. Performance may be required. Combinations of string instruments will be explored.

723 History of Jazz Grades 9 - 12

Credit: 0.5

This course will explore the History of Jazz from its origin in Africa and the South, through the present and into the future. It will look at key persons, places and events and how they relate to other events in our country during this century. Recordings as well as live performances will be incorporated into the course format whenever possible.

732 History of Rock and Roll

Credit: 0.5

This course will explore the history of rock and roll from its origin through the present and into the future. It will look at the influence of American music, including jazz as well as key persons, places and events and how they relate to other events in our country during the 20th century and the present. Recordings, DVD's (and when possible) live performances will be incorporated into this course.

734 Holiday Choir I Grades 9-10

Credit: 0.5

This mixed choir meets during the second term and performs traditional holiday music. Performances at holiday concerts and gatherings will be part of the experience. Students signing up for this course need to have no prior singing experience.

701_1 Holiday Symphonic Winds

Grades 9-10

Grades 9 - 12

Grades 9-10

Credit: 0.5

This instrumental ensemble meets during the second term for holiday concerts and gatherings. Students will perform traditional and modern holiday music as part of their Holiday Symphonic Winds experience.

718 Jazz Improvisation I Grades 9 - 12

Credit: 0.5

Prerequisite: Instructor approval

This course will teach basic jazz improvisation and music theory and harmony as it relates to jazz performances. The lab will be used to support solos that the student will create. Where possible, combo experiences will be provided for the student.

719 Jazz Improvisation II Grades 9 - 12

Credit: 0.5

Prerequisite: Instructor approval

This course will teach advanced jazz improvisation and music theory and harmony as it relates to jazz performances. The lab will be used to support solos that the student will create. Where possible, combo experiences will be provided for the student. Arranging techniques for the jazz medium will also be explored and compositions studied.

700 Marching Band Grades 9-12

Credit: 0.5

Prerequisite: Ability to play an instrument; audition required for visual unit

The Marching Band performs at all football games, parades and competitions. Marching band members must be a member of a concert band to participate. Questions should be referred to the band director.

706 Music Theory I Grades 10-12

Credit: 0.5

Prerequisite: Instructor's Permission

Basic elements of music compositions will be taught leading to the realization of four-part harmonies. Melodic and rhythmic dictation, sight singing and ear training will be included.

720 Percussion Ensemble Grades 9-12

Credit: 0.5

Prerequisite: Ability to play a percussion instrument

This course will allow the student to work on a solo for his/her instrument as well as perform in a small group. Students may chose to learn a second instrument. Performance may be required. All percussion instruments will be taught.

710 Spring Concert Choir Grades 10-12

Credit: 0.5

Prerequisite: Instructor's Permission

Participants in Concert Choir are exposed to elements of proper vocal technique, music reading and stylistic elements of different musical periods. Students participate in the spring choral concert.

701 2 Spring Symphonic Winds Grades 9-12

Credit: 0.5

Participants in the Spring Symphonic Winds will be exposed to proper performance techniques and will perform music from different musical periods. Students will participate in the Spring Symphonic Winds concert.

714 Vocal Jazz Ensemble Grades 9-12

Credit: 0.5

Prerequisite: Instructor's Permission (Audition may be required)

This course is designed for highly motivated vocalists, looking for a more intensive, high-paced performing ensemble with a focus on vocal music.

711 Women's Ensemble Grades 9-12

Credit: 0.5

This course is designed for all high school age females enrolling in choir for the first time. Basic singing and music reading techniques are emphasized. Opportunities for performance will be part of the experience.

721 Woodwind Ensemble Grades 9-12

Credit: 0.5

Prerequisite: Ability to play a woodwind instrument

This course will allow the student to work on a solo for his/her instrument as well as perform in a small group. Students may choose to learn a second instrument. Performance may be required. Combinations of string instruments will be explored.

Science

450 Anatomy Grades 10 - 12

Credit: 1.0

Prerequisite: Biology and Chemistry

This course was developed to introduce basic human anatomy and physiology. Students planning a career in any health related field should be encouraged to take this class. The basic scope and sequence of the course will cover the following bodily systems: skeletal, muscular, cardiovascular, and nervous. Each unit will include lab explorations like monitoring blood pressure, sensory labs, dissection of the sheep brain, sheep heart, cow eye, and bullfrog's muscular system. All material covered in this class is unique to the course and is not covered in any other science class offered at GM.

429_01 AP Biology Grades 11 - 12

Credit: 1.0

Prerequisite: Biology and Chemistry

AP Biology is a course designated for the accelerated, college bound students. The course builds on the concepts learned in Biology I and II with an emphasis on laboratory explorations. By structuring the course around the four big ideas, enduring understandings, and science practices students will develop an appreciation for the study of life. This course will help students identify and understand unifying principles within a diversified biological world. In addition, this course will facilitate critical thinking skills in the process of inquiry. At the end of the course, students will have an awareness of the integration of other sciences in the study of biology, understand how the species to which we belong is similar to, yet different from, other species, and be knowledgeable and responsible citizens in understanding biological issues that could potentially impact their lives.

420_01 AP Chemistry Grades 11 - 12

Credit: 1.0

Prerequisite: A "B" average in Chemistry I and Algebra II

This course is an advanced chemistry course designed for those students who exhibit a desire and an ability to continue beyond the basic chemistry. It includes a review of major concepts from Chemistry I Accelerated and new topics in the area of nuclear reactions, rates of chemical reactions, various equilibrium types and electrochemistry. An introduction to organic chemistry is also included if time permits. Experimentation & mathematical analysis are emphasized. The syllabus of the course satisfies the College Board's requirements for AP Chemistry exam.

4011 AP Environmental Science

Credit: 1.0

Prerequisite: Biology and Chemistry

The AP Environmental Science course is a one-credit course designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural and human worlds. Students will identify and analyze environmental problems-both natural and human-made-evaluate the relative risks associated with these problems, examine alternative solutions for resolving and/or preventing these problems, and -in the process-develop and focus their own individual perspectives on the issues facing our world now and in the future. Through interdisciplinary in nature, AP Environmental Science has several cross-cutting themes: science is a process, energy, conversions underlie all ecological processes, the Earth itself is one interconnected system, humans alter natural systems, environmental problems have a cultural and social context, human survival depends on developing practices that will achieve sustainable systems.

464 Applications of Science

Credit: 1.0

Prerequisite: Biology and teacher recommendation

This course will provide students with a grounded practical experience that spans the physical science disciplines. A hands-on, laboratory-based approach is purposefully explored throughout the course. Distinct attention is paid to topics involving energy which include energy and work, heat, electricity, electricity generation, renewable and nonrenewable sources of electricity, waves, light, and optics.

460 Astrophysics Grades 10 - 12 Credit: 0.5

Astrophysics is a science course for students who desire to learn about phenomenon beyond the scope of the earth using minimal amount of mathematics. The topics that will be discussed are space flight, NASA, the solar system, black holes, UFO's, stars, comets, asteroids, galaxies, cosmology, and the universe. The course will be swayed by student interest and current events in astrophysics.

411 Biology Grades 10 - 12

Credit: 1.0

Prerequisite: Integrated Science

This course will provide students with the understanding necessary to meet the Pennsylvania Keystone standards in the discipline of biology. Specific topics discussed in this course include biochemistry, prokaryotic and eukaryotic cell structure, cellular homeostasis, cellular reproduction. photosynthesis and cellular respiration, DNA replication, transcription, and translation, genetic, mechanisms of evolution, and comparative anatomy through a series of dissections. Upon completion of Biology, the student will take the Keystone Exam in Biology.

Grades 11 - 12

Grades 11 - 12

400 Biology Accelerated Grades 10 - 12

Credit: 1.0

Prerequisite: MS Teacher Recommendation

The purpose of this course is to help students develop the concepts necessary for understanding living organisms. Course topics will be covered in a depth appropriate for the accelerated student. Upon completion of Biology I Accelerated, the student will take the Keystone Exam in Biology. Topics discussed in this course include characteristics of organisms and their levels of biological organization, life sustaining properties of water, biochemistry, mechanisms of evolution, principles of ecology, prokaryotic and eukaryotic cell structure, cellular homeostasis, the cell cycle. and cellular reproduction, photosynthesis, cellular respiration, DNA replication, transcription, translation (protein synthesis), genetics, and comparative anatomy through a series of dissections.

421 Chemistry Grades 10 - 12

Credit: 1.0

Prerequisite: Integrated Science & Algebra I

Chemistry is a physical science dealing with the structure and composition of matter, the changes matter undergoes, and the mechanisms by which these changes occur. The topics covered in this course include: bonding chemical formulas, composition and nomenclature, chemical reactions and equations, stoichiometry, solutions, and gas laws. There is a significant amount of mathematics used in Chemistry thus requiring an above average ability in mathematics.

410 Chemistry Accelerated

Credit: 1.0

Prerequisite: Biology Accelerated or Biology and Algebra I

Chemistry is a physical science dealing with the structure and composition of matter, the changes matter undergoes, and the mechanisms by which these changes occur. The topics covered in this course include: matter and its changes, scientific measurements, atomic structure, electron arrangement, the periodic table, bonding, chemical formulas, composition and nomenclature, chemical reactions, stoichiometry, solutions and gas laws. There is a significant amount of mathematics used in Chemistry thus requiring an above average ability in mathematics. Chemistry I Accelerated also places a large emphasis on high analytical skills.

437 Integrated Science Grades 10 - 12

Credit: 1.0

Integrated Science will provide students with an experience that encompasses the breadth of the natural sciences, including physics, chemistry, and biology. This course will provide foundational knowledge that will serve students well in all future science courses.

462 Nuclear Physics Grades 11 - 12

Credit: 0.5

Prerequisite: Chemistry I Accelerated or Physics I

The student will become familiar with nuclear reactions, quantum physics and atomic physics. The depth and scope of these topics will be steered by the student's interest level. The student will apply mathematical solutions to physical problems and expand his or her problem solving ability. The student will learn to communicate scientific data, results and conclusions, and to relate the concepts of physics to everyday phenomena.

433 Physics Grades 11 - 12

Credit: 1.0

Prerequisite: Biology I and Algebra II (or equivalent)

Physics is a science course that focuses on the study of matter and energy and their interactions. It provides a systematic understanding of the fundamental laws that govern physical, chemical, and biological processes. This Physics course is for students that desire to go beyond the introductory level and is designed to: instruct students in foundational physics concepts, prepare students to exist in an increasingly technological society, develop the students' analytical, problem solving, and laboratory skills and integrate math, science and technology.

440 Physics I Accelerated Grades 11 - 12

Credit: 1.0

Prerequisite: Concurrent or completed Trigonometry Accelerated

This course will provide the student with the opportunity to develop a basic understanding of the fundamental principles of physics. The course includes a thorough study of classical mechanics. A problem solving approach will be emphasized. Students will participate in a variety of classroom activities to develop confidence in their ability to understand and apply scientific concepts and principles.

441 Physics II Accelerated Grades 11 - 12

Credit: 1.0

Prerequisite: Physics I Accelerated

This course will provide the student with the opportunity to develop an advanced basic understanding of the fundamental principles of physics. The course includes a review of classical mechanics, circular motion and rotational dynamics. This course will also familiarize the student with topics of sound, light, optics, modern physics and a little magnetism. A problem solving approach will be emphasized as concepts of physics are related to everyday phenomena. Students will participate in a variety of classroom activities to develop confidence in their ability to understand and apply scientific concepts and principles. The depth and scope of these topics will be steered by the student's interest level. This course is recommended for students pursuing careers in medicine, engineering, and science fields.

Grades 10 - 12

Social Studies

231 01 AP U.S. History Grades 11 - 12

Credit: 1.0

Prerequisite: U.S. History I & U.S. History II

The advanced placement U.S. history course is an elective course of study that will prepare students to take the advanced placement exam. Successful completion of this exam provides college credit to the colleges and universities that accept the advanced placement exam results. This course will expand upon the traditional curriculum to include an in-depth study of U.S. domestic and foreign affairs up to and including present-day.

229 AP U.S. Government and Politics

Grades 11

Credit: 1.0

Prerequisite: U.S. History I & U.S. History II

Study the key concepts and institutions of the political system and culture of the United States. You'll read, analyze, and discuss the U.S. Constitution and other documents as well as complete a research or applied civics project.

232 AP World History Grades 10 - 12

Credit: 1.0

Prerequisite:

Study the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. You'll analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments.

226 Government, Civics, & Economics

Grade 11

Credit: 1.0

Prerequisite: U.S. History II

This course introduces students to the structure and workings of the American government and the political system. Students will also learn about economic systems and the role of government in the economy. Through the use of primary and secondary sources, students will examine the foundations of the American government, the United States Constitution, citizenship, and the role government has in their life. While the course emphasizes American Government, students will also have the opportunity to examine other systems of governance.

241 Current Affairs Grade 9 - 12

Credit: 0.5

Prerequisite:

Current affairs will cover issues, events, history, and geography from our local community, state, nation, and world. Each week students will examine local, state, and national news in addition to covering a region of the world.

243 Psychology of Body and Mind

Grades 11 - 12

Credit: 0.5

Prerequisite: Can be taken independent of Psychology of Development and Wellness

This course is designed to give students an overview of major topics in psychology with a focus on the relationship between physiological processes and mental processes. The goals include preparing students for an Introduction to Psychology course at the college level, providing students with a better understanding of how and why people think and behave the way they do, arming students with a better understanding of their own thoughts and behaviors, and instilling in students the ability to look at sensitive issues in the world of psychology and mental health with more sensitive eyes. The major topics covered include history of the discipline, the brain and nervous system, altered states of consciousness, perception, learning and conditioning, and memory and thought.

244 Psychology of Development and Wellness

Grades 11 - 12

Credit: 0.5

Prerequisite: Can be taken independent of Psychology of Body and Mind

This course is designed to give students an overview of major topics in psychology with a focus on the stages of development and mental health. The goals include preparing students for an Introduction to Psychology course a the college level, providing students with a better understanding of how and why people think and behave the way they do, arming students with a better understanding of their own thoughts and behaviors, and instilling in students the ability to look at sensitive issues in the world of psychology and mental health with more sensitive eyes. The major topics covered include history of the discipline, infancy and childhood, adolescence, adulthood and old age, personality, stress and health, psychological disorders, and therapy.

248 Social Conflict Grades 11 - 12

Credit: 0.5

In this course, students will investigate the dangers of ignorance, discrimination, and persecution throughout history. Through the use of films, websites, and activities, students will analyze case studies of ethnic conflict and Genocide, paying careful attention to the ways in which the forces of division contribute to these conflicts. After being exposed to various world events and human suffering, students will be expected to complete a final project related to course content, identifying their role in raising awareness and/or presenting possible solutions to world problems.

207 Struggle & Triumph: History Through Sports

Credit: 0.5

This course will focus on the struggles and triumphs of individuals, societies, and countries through the lens of sports. From the Olympics in Ancient Greece to modern day athletics, students will see how historical events have been impacted by sports and how sports have been impacted by historical events. This course is intended for all students who are interested in exploring historical events from a unique perspective. You don't need to be an athlete or love sports to learn and be engaged by this social studies course!

212 U.S. History I Grade 9

Credit: 1.0

The topics covered in the ninth grade US History course will include: Mexican War, events leading up to the Civil War, Civil War, Reconstruction Era, Indian policies, railroads, steel, oil and automobile industries, industrialization in general, urbanism, Gilded Age, expansionism, U. S. emerging as a world power, Spanish American War, Progressive Era, Wilson years and WWI. There will also be an emphasis on geography and the comparing and contrasting of events that happened throughout the world at the same time periods.

214 U.S. History I Accelerated

Grade 9

Grades 9 - 12

Credit: 1.0

Content of this course is the same as course #212, but an emphasis will be placed on higher order thinking, critical thinking, and problem solving. Alternative assessments, such as drawings, narratives, debates, group presentations, short story construction, self and group evaluations, will be used with the standard assessment techniques to determine the student's grade. There will be a more demanding writing component as well.

213 U.S. History II Grade 10

Credit: 1.0

Prerequisite: U.S. History I

The course pursues the study of modern US history and the relationship of our country to the larger world. The course begins after WWI in the year of 1920 and concluded by studying the present day US as well as its relationship to Europe, Asia, Africa and Latin America. Emphasis will be placed on the Jazz Age, the Great Depression, the struggle of WW II, battling the Cold War and transformations within the United States and the World.

216 U.S. History II Accelerated

Grade 10

Credit: 1.0

Prerequisite: U.S. History I

Content of this is the same as course #214, but an emphasis will be placed on higher order thinking, critical thinking, visual learning and the use of primary source documents, as tools for finding our place in the global society of this time period. Alternative assessments, such as drawings, narratives, debates, group presentations, and short story construction.

Technology Education

634 Architectural Design I

Grades 9 - 12

Credit: 0.5

Students will design their own residential dwelling and draw a set of working plans for that design. Drawings will be completed using an architectural design software. Drawings to be completed include floor plans, elevations and a 3-D model.

638 Architectural Design II

Grades 9 - 12

Credit: 0.5

Prerequisite: Architectural Design 1

This course is a continuation of Architectural Design I with students learning how to design individual rooms of a residential dwelling taking into consideration traffic flow through the house. Using an architectural design software, students will create a set of working drawings based on their designs. Drawings to be completed include floor plans, elevations, 3-D models and a walkthrough.

Engineering Design I

Grades 9 - 12

Credit: 0.5

This course provides an introduction to computer aided drafting, CNC machining and the engineering design process. Students will use CAD software to complete multi-view projections with dimensions as well as 3-D models. Using CAD drawings students will learn how to produce parts on CNC machines. Students will also be introduced to the engineering design process. (This course replaced CAD I.)

635 Engineering Design II

Credit: 0.5

Prerequisite: Engineering Design I

This course is a continuation of Engineering Design I with students learning more advanced CAD and CNC concepts. Students will use CAD software to complete 3-D models incorporating section views, auxiliary views and working drawings. Students will use the engineering design process to design a product to be produced utilizing advanced CNC machining concepts.

628 Robotics & CNC Technology

Grades 10 - 12

Grades 9 - 12

Credit: 0.5

In this course students examine the different types, uses, power systems, and control techniques for robotics. Through lab experiments, students use the Scorbot robot to gain experience and develop their own practical use of the robot. In the CNC unit, students develop a basic understanding of machining, processor language and programming of the CNC mill, lathe and router. The course concludes with the study of Master CAM software and how to apply it to design and machining a product.

639 Computer Animation

Grades 10 - 12

Credit: 0.5

Students will use a professional computer animation tool to study two-dimensional animation as it pertains to web development. The animation will be used to enhance the content and design of a web page.

Home Maintenance

Grades 9 - 12

Credit: 0.5

This course is designed to teach students about basic home repairs & maintenance. Items to be covered include drywall repair, painting, wallpaper, electrical and plumbing repair, furniture assembly and ceramic tile repair. These skills will be acquired through hands on technology learning activities.

610 Introduction to Metal Materials & Processes

Grades 9 - 12

Credit: 0.5

Introduction to Metals introduces students to the study of metal materials, design, tools and processes. Students will explore various aspects of metal manufacturing, including how the processing and changing of raw materials can produce desirable products. During this process they will create custom manufactured projects while learning aspects of machine safety. This course will conclude with a manufacturing unit where students mass produce a product.

600 Introduction to Wood Materials & Processes

Grades 9 - 12

Credit: 0.5

Introduction to Wood Material and Processes introduces students to wood material, tools and equipment. Students will develop an understanding of design and transform the design into a completed wood product. Students will study safety, fabrication, assembly and finishing of a wood product. The course concludes with a construction unit covering structural design and processes.

Media Arts Credit: 0.5

Grades 9 - 12

Media Arts is a communications class. We focus on storytelling with the use of cameras and editing programs. Students will also enrich their technology skills using apps such as Google Docs, Google Drive, Wordpress (web design) and YouTube. Students will have the opportunity to create a portfolio creating video stories within their interests connected to our school. School Announcement projects will be selected to be shown to the rest of the school during Advisory.

626 Power Technology

Grades 9 - 12

Credit: 0.5

Power Technology provides a broad overview of energy, control systems, and transportation. Students will explore how energy and power systems can be made and how they may be utilized for problem solving. Transportation systems will be examined by looking at their functional processes and impacts.

612 Metal Production Systems

Grades 10 - 12

Credit: 0.5

Prerequisite: Introduction to Metal

Metal Production Systems is an advanced study of metal material, design, equipment, and manufacturing processes. Students will examine the processes of manufacturing facilities and the advances that maintain manufacturing efficiency. Students will create custom metal projects through various manufacturing processes.

Wood Production Systems

Grades 10 - 12

Credit: 0.5

Prerequisite: Introduction to Wood

Wood Production Systems is a continuation of Introduction to Woods. It is an advanced study of wood material, design and equipment. This class is geared towards students with an aptitude of working with their hands in a lab based classroom. Students will work through the design process to create a project. This class will require a lab fee for any materials used.

World Languages

500 French I Grades 9-12

Credit: 1.0

French I is designed for the student who desires to learn basic French. Grammar and vocabulary will be provided with an emphasis on culture, history, geography, and daily customs of French-speaking countries.

501 French II Grades 9-12

Credit: 1.0

Prerequisite: French I

The students will continue to develop and refine their working knowledge of French. The four language skills (reading, writing, speaking, and listening comprehension) will be greatly expanded with concentration in travel and survival French.

502 French III Grades 10 - 12

Credit: 1.0

Prerequisite: French II

As a continuation of French II, the students will polish their intermediate French skills. French III is appropriate for those who are seeking to fulfill university requirements as well as those who are preparing for AP French Language and Culture.

504 French V Grades 11 - 12

Credit: 1.0

Prerequisite: AP French Language & Culture

This course will focus on higher levels of conversations in French, reading, and writing at advanced levels. The class takes place in an immersion mode.

505 1 AP French Language & Culture

Grades 11 - 12

Credit: 1.0

Prerequisite: French III

AP French Language and Culture is a challenging course that is taught almost entirely in French with an immersion-like setting. This course will allow students to improve their proficiency across the three modes of communication: Interpretive, Interpresonal, and Presentational. This course is designed to help students prepare for the AP exam and is authorized as an Advanced Placement course by the AP Course Audit created by The College Board.

548 Introduction to World Language & Culture

Grades 9 - 12

Credit: 0.5

Get ready to explore French and Spanish-speaking countries around the world! Did you know that these two language cultures make up over 700 million people on Earth? On your adventure, you will discover the food, music, art, and celebrations that make these cultures so unique. You'll also learn words and phrases to help you with real life travel and social situations. This course complements any student's schedule and will give you a better understanding of what you're learning in other classes.

510 Spanish I Grades 9 - 12

Credit: 1.0

Spanish I is an introductory language and culture course. Students will begin as Novice-Low learners. By the end of the semester, students will gain a working knowledge of the people, language, culture, history, geography, and daily customs of Hispanic countries. Students are expected to reach a proficiency level of Novice-High in preparation for Spanish II.

511 Spanish II Grades 9 - 12

Credit: 1.0

Prerequisite: Spanish I

This course will further develop and refine Spanish language proficiency. Through a continued exploration of the Hispanic world, students will be expected to reach a proficiency level of Intermediate-Low in preparation for Spanish III.

512 Spanish III Grades 10 - 12

Credit: 1.0

Prerequisite: Spanish II

As a continuation of Spanish II, students will polish their intermediate reading, writing, listening, and speaking skills. Spanish III is appropriate for those who are seeking to fulfill basic university requirements, as well as those who wish to enroll in AP Spanish.

514 Spanish V Grades 11 - 12

Credit: 1.0

Prerequisite: AP Spanish Language and Culture

This course will focus on higher levels of conversations in Spanish reading and writing at advanced levels. Students work independently, participating in a variety of reading and writing activities.

515_01 AP Spanish Language and Culture

Credit: 1.0

Prerequisite: Spanish III

This is a challenging course that is taught exclusively in Spanish with an immersion-like approach. It is appropriate for students who learn in a high energy and interactive setting. The goal of the course is to equip students with Intermediate-High to Advanced-Low presentational, interpersonal, and interpretive skills in reading, writing, speaking, and listening. By taking the AP course and earning a successful score on the AP Exam, students can stand out in college admissions and earn college credits by skipping out of introductory courses.

Grades 11 - 12