

Purchase Line Senior High School
Curriculum Guide
2023-24



Pursue
Lifetime
Success and
Development

CLASSES OF 2024, 2025, 2026, & 2027

DIRECTORY

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ACADEMIC STANDARDS

The Board of Education recognizes that education is a vital function of the state and community. The school community, through the strategic planning process, shall be encouraged to participate in the development of the educational goals and academic standards established for this district.

Academic standards shall be defined as what a student should know and be able to do at a specific grade level; they shall describe the knowledge and skills that students will be expected to demonstrate in order to graduate.

The Purchase Line School District has established the following academic standard for students to attain, in accordance with those adopted by the State Board of Education, in the following areas:

Reading, Writing, Speaking and Listening

Mathematics

Science and Technology

Environment and Ecology

Social Studies - History, Geography, Civics & Government, Economics

Purchase Line School District is an equal opportunity education institution and will not discriminate in its educational programs, activities or employment practices based on race, color, national origin, sex, disability, age, religion, ancestry or any other legally protected classification. This is in accordance with state and federal laws, including Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Americans with Disabilities Act of 1990 and the Pennsylvania Human Relations Act. For information relative to special accommodation, grievance procedures and compliance with Title VI, Title IX and Section 504, contact the Superintendent of Schools, at 16559 Route 286 Hwy E, Commodore, PA 15729 or 724-254-4312.

GRADUATION REQUIREMENTS	3
PLANNING A PROGRAM OF STUDY	5
COUNSELOR RECOMMENDATIONS	5
Education/Course Planner (Classes of 2024 & 2025)	7
Education/Course Planner (Class of 2026)	8
Education/Course Planner (Class of 2027)	8
Education/Course Planner (Class of 2028 & Beyond)	9
INITIAL AND CONTINUING ENROLLMENT CRITERIA	11
College-in-High School	14
NCAA COURSE OF STUDY FOR STUDENT-ATHLETES	15
SCHEDULE CHANGES	15
COURSE WITHDRAWALS	16
Career Pathways	18
COURSE	26
DESCRIPTIONS	26
LANGUAGE ARTS	30
SOCIAL SCIENCES	33
MATH	36
SCIENCE	38
TECHNOLOGY EDUCATION	41
FOREIGN LANGUAGES	44
FINE ARTS	46
CAREER & TECHNICAL / BUSINESS & FAMILY CONSUMER SCIENCES	49
GENERAL STUDIES	52
HEALTH & PHYSICAL EDUCATION	53

GRADUATION REQUIREMENTS

Purchase Line High School's graduation requirements are found in Pennsylvania regulation

4.24. They include:

- Course completion and grades

- Successful completion of one of the Keystone Pathways to graduation

Pennsylvania has additional expectations for students prior to graduation which includes active participation in Social-Emotional Learning (SEL) programming and completion of Chapter 339 Career Portfolio.

Students who have not completed all of the necessary requirements for graduation will not participate in baccalaureate and commencement exercises.

CREDIT REQUIREMENTS (Classes of 2024 & 2025)

- 4 credits of English

- 4 credits of Social Science

- 4 credits of Math

- 3 credits of Science

- ½ credit of Microcomputer Applications

- ½ credit of Family and Consumer Sciences Exploration

- ½ credit of Health & Wellness

- 2 credits of Physical Education

- 6 ½ credits of Electives

25 - total credits

CREDIT REQUIREMENTS (Classes of 2026)

- 4 credits of English

- 4 credits of Social Science

- 4 credits of Math

- 3 credits of Science

- ½ credit of Family and Consumer Sciences Exploration or ICTC credits

- ½ credit of Health & Wellness

- 2 credits of Physical Education

- 7 credits of Electives

25 - total credits

CREDIT REQUIREMENTS (Classes of 2027)

- 4 credits of English

- 3 credits of Social Science

- 4 credits of Math

- 3 credits of Science

- 2 credits of Arts & Humanities

- ½ credit of Health & Wellness

- 1 credit of Physical Education

- 7.5 credits of Electives

25 - total credits

Keystone Proficiency Pathway: Scoring proficient or advanced on each Keystone Exam—Algebra I, Literature, and Biology

Composite Pathway: Combined score of 4452 on Algebra I, Literature, and Biology Keystone Exams or a combined score of 2939 or greater on two exams where eligible under 121.1 (while achieving at least a proficient score on at least one of the three exams and no less than a basic score on the remaining two).

Alternate Assessment Pathway: Successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency and one of the following: Attainment of an established score on an approved alternate assessment (SAT, PSAT, ACT, ASVAB); Gold Level on the ACT WorkKeys Assessment;

Attainment of an established score on an AP or IB Program exam in an academic content area associated with each Keystone Exam on which the student did not achieve at least a proficient score;

Successful completion of a concurrent enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least a proficient score;

Successful completion of a pre-apprenticeship program; or

Acceptance in an accredited 4-year nonprofit institution of higher education and evidence of the ability to enroll in college-level coursework

Evidence Based Pathway: Successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency and demonstration of three pieces of evidence consistent with the student's goals and career plans including:

ONE of the Following: Attainment of an established score on the ACT WorkKeys assessment, a SAT subject test, and AP program or IB program exams;

Acceptance to an accredited nonprofit institution of higher education other than a 4-year institution and evidence of the ability to enroll in college-level coursework;

Attainment of an industry-recognized credential **or** Successful completion of a concurrent enrollment or postsecondary course **AND** Two additional pieces of evidence including one or more of the options listed above, **or**; satisfactory completion of a service learning project; attainment of a score of proficient or advanced on a Keystone Exam; a letter guaranteeing full-time employment; a certificate of successful completion of an internship or cooperative education program; **or** satisfactory compliance with the NCAA's core courses for college-bound student-athletes with a minimum grade point average (GPA) of 2.0.

CTE Pathway: For CTE Concentrators, successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency **AND** attainment of an industry-based competency certification related to the CTE Concentrator's program of study or demonstration of a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE Concentrator's program of Study.

PLANNING A PROGRAM OF STUDY

Students, along with help from parents and their guidance counselor, should plan a program of study that will focus on their career goals.

The guidance counselor will meet with students to provide an overview of the scheduling process and provide guidance in selection of courses. All students will provide four alternate course selections (two full-year courses and two half-year courses). The guidance office will schedule a time for the student to select courses.

The guidance counselor will give final approval of class requests based on graduation requirements, required courses, career goals, school policy and procedures.

Scheduling Requirements:

All students must schedule at least 8 full periods/week.

Required courses for graduation must be scheduled first.

Students may not schedule more than one study hall period per day in a given semester.

Students will meet with their counselor to develop a four-year plan. Each year this plan will be revisited and reviewed to ensure students are meeting graduation requirements.

****Grade level advancement is based on the number of credits earned. Credits are evaluated at the release of midterm report cards and final report cards.****

Grade 10 (Sophomore Status) = 6 credits

Grade 11 (Junior Status) = 12 credits

Grade 12 (Senior Status) = 18 credits

***Note:** Math placements are determined by math teacher recommendations based on academic data. Students may double up on mathematics courses with teacher permission.

COUNSELOR RECOMMENDATIONS

Students preparing for college should schedule higher-level mathematics and science courses, along with a foreign language.

Students interested in National Honor Society should see Mr. Thom and schedule according to the guidelines.

If you are considering collegiate athletics, please be aware of and read *The Guide for College-Bound Athletes*. This will tell you what the academic requirements are and what courses qualify toward eligibility.

Students should have met with their counselor in 8th grade to develop a four-year plan. Each year this plan will be revisited and reviewed to ensure students are meeting graduation requirements.

REQUIRED COURSEWORK

Please refer to the appropriate chart on the following pages.

Education/Course Planner (Classes of 2024 & 2025)

Courses & Credits	English (4)	Social Science (4)	Math (4)	Science (3)	Computer Applications (0.5)	FCS Exploration (0.5)	Health & Wellness (0.5)	Physical Education (2)	Electives (6.5)
GRADE 9	English 9	Civics & Government	Principles of Algebra I or higher	Physical Science 9					
GRADE 10	English 10	American History I	Pre-Algebra or higher	Biology 10					
GRADE 11	English 11	American History II	Algebra I or higher	Chemistry I					
GRADE 12	English 12 or AP English	American History III/Economics	Geometry or higher						

Education/Course Planner (Class of 2026)

Courses & Credits	English (4)	Social Science (4)	Math (4)	Science (3)	FCS Exploration (0.5)	Health & Wellness (0.5)	Physical Education (2)	Electives (7)
GRADE 9	English 9	Civics & Government	Principles of Algebra I or higher	Physical Science 9				
GRADE 10	English 10	American History I	Pre-Algebra or higher	Biology 10				
GRADE 11	English 11	American History II	Algebra I or higher	Chemistry I				
GRADE 12	English 12 or AP English	American History III/Economics	Geometry or higher					

Education/Course Planner (Class of 2027)

Courses & Credits	English (4)	Social Science (3)	Math (4)	Science (3)	Arts & Humanities (2)	Health & Wellness (0.5)	Physical Education (1)	Electives (7.5)
GRADE 9	English 9	Civics/PA History	Pre-Algebra or higher	Earth/ Environmental Science				
GRADE 10	English 10	American History I	Algebra I or higher	Biology				
GRADE 11	English 11	American History II	Geometry or Higher	Chemistry I or Physical Science				
GRADE 12	English 12 or AP English		Algebra II or higher					

Education/Course Planner (Class of 2028 & Beyond)

Courses & Credits	English (4)	Social Science (3)	Math (4)	Science (3)	Arts & Humanities (2)	Health & Wellness (0.5)	Physical Education (1)	Electives (7.5)
GRADE 9	English 9	American History I	Pre-Algebra or higher	Earth/Environmental Science				
GRADE 10	English 10	American History II	Algebra I or higher	Biology				
GRADE 11	English 11	Social Science Elective	Geometry or Higher	Chemistry I or Physical Science				
GRADE 12	English 12 or AP English		Algebra II or higher					

INITIAL AND CONTINUING ENROLLMENT CRITERIA

Initial criteria:

Coursework at ICTC and Penns Manor (Vo-Ag) may begin in grade 10 if the following conditions are met:

Required courses have been scheduled and completed.

Cumulative Grade Point Average of 2.5.

Absent less than 15 days during the previous school year.

For ICTC, One of the top two (2) shop areas must be available for student.

Continuing criteria:

Student must maintain a 2.5 GPA and less than 15 days of absence in the present school year.

ICTC Programs:

AUTOMOTIVE TECHNOLOGIES

Automotive Technology

Collision Repair Technology

CONSTRUCTION & BUILDING TRADES

Carpentry

Heating, Ventilation and Air Conditioning

Masonry

ENGINEERING TECHNOLOGIES

Machining Technology

Welding Technology

INFORMATION TECHNOLOGIES

Digital Communications

Graphics and Electronic Media

Information Technology Services

PUBLIC SERVICES

Cosmetology

Culinary Arts

Health Occupations

Dual Enrollment

Purchase Line wants to give every student the opportunity to advance academically. For this reason, we have committed the school to provide students with the opportunity to take college credits while still in high school. We have agreements with Indiana University of Pennsylvania for courses taught by the institute of higher education.

PARTICIPATION IN DUAL ENROLLMENT PROGRAMS

To participate, the following criteria must be met:

Completed sophomore year

Have a cumulative GPA of 3.0

Have less than 15 days of absences during the previous school year

Must ask and receive a recommendation to participate from their guidance counselor

In order for a student to continue in the Dual Enrollment program, they must meet the established criteria annually.

SUMMER DUAL ENROLLMENT

All participants can take courses on-line or at the college/university campus.

SCHOOL-TERM DUAL ENROLLMENT

All participants can take courses on-line.

Underclassmen will not be permitted to leave the high school during school hours to take courses on the college campus but can take classes after school.

Underclassmen that elect to take coursework on the college campus after high school hours, during the school year, will be permitted to do so.

Students participating in the Dual Enrollment program are still required to earn all credits required by Purchase Line High School in order to graduate. College coursework cannot replace required high school courses. College coursework will be listed on the high school transcript but will not be a factor in determining class rank or grade point average.

IUP Dual Enrollment Program Procedures

An announcement will be made when IUP Dual Enrollment information becomes available in the guidance office. First time students must complete an application, send a transcript along with a recommendation by the guidance counselor along with a course registration form. After review by the guidance office, if a student meets all of the criteria for enrollment, the information will be forwarded to IUP's Registrar's office. A listing of course offerings are made available through IUP's website. First time students will be required to attend an orientation at IUP as well as take any placement tests deemed necessary by the university.

Returning dual enrollment students must again meet the dual enrollment criteria. Upon meeting the criteria, the student must complete the course registration form and return it to the guidance office. The guidance counselor will sign the form if the student meets criteria and forward it to the Registrar's office.

If a student is failing (grade of D or F) in the course, the college will notify the high school. A discussion will occur as to whether the student should continue in the course. The student and parent are responsible for the cost of the course.

Dual Enrollment Costs

Each participating university determines the cost associated with any course. It is the responsibility of the parent/student to pay for the course and any related fees.

Transcripts

Students must sign a release of transcripts to the college/university in order for them to forward a copy of the transcript to the high school. The high school will not be notified of the final grade unless the release has been signed. Students completing course work at IUP will have their course and grade listed on the PL transcript. Credits and grades from coursework not taught by a PL faculty member will not be considered toward graduation requirements, class rank, or grade point average.

College-in-High School

Purchase Line wants to give every student the opportunity to advance academically. For this reason, we have committed the school to provide students with the opportunity to take college credits while still in high school. We have agreements with Saint Francis University and Mount Aloysius College which allows students the opportunity to earn college credit while taking Purchase Line High School courses.

PARTICIPATION IN COLLEGE-IN-HIGH SCHOOL PROGRAMS

To participate, the following criteria must be met:

Must be enrolled in a college-in-high school course

Have a cumulative GPA of 3.0

Have less than 15 days of absences during the previous school year

In order for a student to continue in the College-in-high school program, he/she must meet the established criteria annually.

Current and future courses taught by Purchase Line faculty that include college and high school credit will be accepted for high school credit and will be factored in for class rank and grade point average. College-in-high school courses are weighted with board approval.

Mount Aloysius College

Students enrolled in the Probability and Statistics (MATH 220), Physics (PHYS 103), Anatomy & Physiology (BIOL 201), Civil War Studies (HIST 281), Advanced Biology (BIOL 101) and Advanced Math/Trigonometry (MATH 112) courses at Purchase Line may opt to take these courses for Mount Aloysius credit. Students must follow the college's application process for college course enrollment.

Saint Francis University

Students enrolled in the Probability and Statistics (STATS 101), Calculus (MATH 112), Physics (PHYSICS 104), Anatomy & Physiology (BIO 105), Advanced Math/Trigonometry (MATH 110), AP English (WRIT 101) courses at Purchase Line may opt to take these courses for Saint Francis credit. Students must follow the university's application process for college course enrollment.

College-in-High School Costs

Each participating university determines the cost associated with any course. It is the responsibility of the parent/student to pay for the course and any related fees.

Transcripts

To transfer college credits received in high school, the student must request transcripts from the college where he/she received the credits.

NCAA COURSE OF STUDY FOR STUDENT-ATHLETES

Parents and students should understand that if a student envisions playing intercollegiate athletics at either the Division I or II level, the student must begin as a freshman to pursue an NCAA accepted course of study. If you are interested in competing at the collegiate level, please set up a meeting with your guidance counselor to guide you through the process of earning the required credits for NCAA eligibility. The guidance office annually reviews and updates the list of NCAA-approved courses from our curriculum guide. Approval of courses can be changed at the discretion of the NCAA at any time. *It is the student's responsibility* to set up a meeting and review this information with their guidance counselor to ensure NCAA compliance. Students will need to meet academic eligibility rules in order to receive athletic aid (scholarships), practice or compete during their first year. Students may be considered either a Full Qualifier, Academic Redshirt or a Nonqualifier. Please visit www.eligibilitycenter.org for more details.

SCHEDULE CHANGES

All students have an opportunity in the spring of each year to select courses appropriate to their needs. Students are also permitted to adjust their course selections prior to the building of the Master Schedule. At this time, all course selections will be considered final.

Schedule changes will be made for the following reasons:

1. Academic misplacement – Student is placed in the wrong level of class (Honors/Accelerated/AP vs. regular pace), or is placed in a class without meeting the pre--requisite (placed in chemistry without passing biology first).
2. Program change-- Student has been accepted into an academic program or the student is no longer enrolled in a specific program of study (choir, band, AP, etc.).
3. Missing an academic class-- Student is missing a core class such as English, history, math, or science.
4. Missing a graduation requirement - Student is missing a course necessary to graduate in the upcoming school year.
5. To balance classes so that overcrowding does not occur.

Course changes must be completed within the first 5 days of each semester. After 5 days, an "F" will be placed on a student's transcript if he/she drops a course. If a student adds a course after 5 days, he or she possibly would not receive full semester credit for the course. After the first 5 days of the semester, no changes will be allowed unless they are deemed necessary by the school.

Procedure for Dropping or Changing Classes Prior to the Cut-Off-Date

1. Students must request a meeting with their counselor. A form or parental permission is needed unless specified by a counselor.
2. Counselors will give studied consideration to each request. A completed request form does not guarantee a schedule change. Factors such as class size, availability of classes and/or appropriate placement supersede the request.

COURSE WITHDRAWALS

If a student wishes to withdraw from a course, the student will complete the "Course Withdrawal Request Form" that includes reason for the withdrawal, parent, student and current teacher's signature. Completed forms will then be submitted to the guidance office for review. The scheduling committee will meet to evaluate and process the request accordingly.

The scheduling committee may require the student to continue in the assigned course.

The committee and the student will develop a student improvement plan that may require additional support and extended learning time.

The scheduling committee may facilitate the withdrawal procedure.

The committee will determine the grades earned and the credit awards. Withdrawal from a class may result in a "WF" after the 10th school day.

The scheduling committee will evaluate extenuating circumstances to determine relevance pertaining to withdrawal requests. All withdrawals will appear on the student's transcript.

"WF" will be reported as a 69% and counted towards the student's GPA.



Purchase Line School District



Art & Communications Pathway

Grade	English (4 Credits)	Mathematics (4 Credits)	Science (3 Credits)	Social Studies (3 Credits)	Required Electives and other Activities
9	English 9	Pre-Algebra I or higher	Earth/Environmental Science	Civics & Government	Health (.5 Credits)
10	English 10	Algebra I or higher	Biology 10	American History I	Physical Education (1 Credit)
11	English 11	Geometry or higher	Chemistry I	American History II	Arts & Humanities (2 Credits)
12	AP English or English 12	Algebra II or other approved math class		American History III/Economics	
Electives, Dual Credit and CTE Programs					
	Sociology	Accounting I	Intro to Business	Crafts	Guitar
	Chorus	Digital Media Production	Business Math	Drawing & Painting	Music Appreciation
	Spanish I, II, III, IV	Newspaper	Advanced Art	Special Projects	World Music & History
	French I, II, III, IV	Yearbook	Accounting II	Piano	Band
	Advanced Microcomputer Applications	Probability and Statics	Speech and Creative Writing	Personal Consumer Finance	Electrical Circuits
	CMT I	CMT II	CMT III	3D Modeling and Printing	Family and Consumer Science Exploration
	Critical and Creative Thinking	Comp. Sci./Info. Tech.	Computer Applications	Career Essentials & Financial Planning	
ICTC Programs	ICTC-Digital Communications 10-12th	ICTC- Graphics and Electronic Media 10th-12th			
Curricula, Extracurricular, and CTE Activities					
	SADD	Foreign Language Club	Marching Band	Play	Jazz Band
	Community Service Club	Musical			



Purchase Line School District



Art & Communications Pathway

Sample Occupations					
Video Systems Technicians	Lithographers and Platemakers	Commercial Photographers	Cinematographers	Costume Designers	Telecommunications Technicians
Video Graphics, Special Effects, and Animation	Graphics and Printing Equipment Operators	Interior Designers	Dancers	Stagecraft Designers, Lighting, Sound Effects	Telecommunication Equipment, Cable, Line Repairers
Audio-Video Designers and Engineers	Desktop Publishing Specialists; Web Page Designers	Graphic Designs	Play Writes, Screen Writers, Screen Editors, Script Writers	Composers, Conductors, and Music Instructors	Audio/Video Operations, control room technician
Technical Computer Support Technicians, State, Film, Video	Computer Typography and Composition Equipment Operators	Textile Designers	Directors and Coaches	Broadcast Technicians	Station Managers
Production managers	Fashion Designers	Commercial Artists	Performers, Actors, Musicians	Make-Up Artists	Publisher, Editors, Journalists, and Reporters
Curators and Gallery Managers	Introduction to Technology				
Credentials					



Purchase Line School District

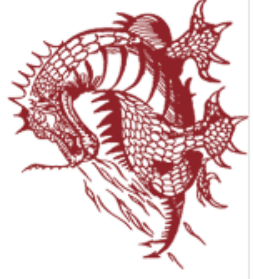


Business, Finance, & Information Technology Pathway

Grade	English (4 Credits)	Mathematics (4 Credits)	Science (3 Credits)	Social Studies (3 Credits)	Required Electives and other Activities
9	English 9	Pre-Algebra I or higher	Earth/Environmental Science	Civics & Government	Health (.5 Credits)
10	English 10	Algebra I or higher	Biology 10	American History I	Physical Education (1 Credit)
11	English 11	Geometry or higher	Chemistry I	American History II	Arts & Humanities (2 Credits)
12	AP English or English 12	Algebra II or other approved math class		American History III/Economics	
Electives, Dual Credit and CTE Programs					
	3D Modeling and Printing	Physical Science	Drawing and Painting	Advanced Manufacturing and Design	CMT I
	Probability and Statistics	Physical Science II	X Coding	Basic Home Maintenance	CMT II
	Advanced 3D Printing and Design	Newspaper	Physics	Critical and Creative Thinking	CMT III
	Electrical Circuits	Sociology	Comp. Sci./Info. Tech.	Aviation	Computer Applications
	Family and Consumer Sciences Exploration	Piano	Guitar	Career Essentials & Financial Planning	Digital Media Production
	Speech & Creative Writing	Advanced Micro Computer Applications			
ICTC Programs	Computer Systems Technologies 10th-12th	Digital Communications 10th-12th	Graphics and Electronic Media 10th-12th		
Curricula, Extracurricular, and CTE Activities					
	TSA Club			FBLA Club	



Purchase Line School District



Business, Finance, & Information Technology Pathway

Sample Occupations									
Entrepreneur	Office Manager	Customer Service	Network Designer	Resort Manager	Financial Analysts	Sales Associate	Virtual Reality Specialist		
Chief Executive Officer	Word Processor	Account Executive	Database Development	Sports & Entertainment Manager	Brokerage Representatives	Media Buyers	Web Designer		
Facilities Manager	Desktop Publisher	Advertising Manager	Steaming Specialist	Accountant	Stock brokers	Creative Directors	Systems Analyst		
Broker	Small Business Owner		Adjuster	Human Resources Manager	Credit Analysts	Product Planners	Programmer		
Store Managers	Forecasting Managers	Loss Prevention Specialists	Marketing Services Managers	Payroll Accountant	Debt Counselors	Database Managers	Operating System Manager		
Auditor	Operations Analyst	Clerk							
Credentials									



Purchase Line School District



Engineering Sciences & Industrial Technology Pathway

Grade	English (4 Credits)	Mathematics (4 Credits)	Science (3 Credits)	Social Studies (3 Credits)	Required Electives and other Activities
9	English 9	Pre-Algebra I or higher	Earth/Environmental Science	Civics & Government	Health (.5 Credits)
10	English 10	Algebra I or higher	Biology 10	American History I	Physical Education (1 Credit)
11	English 11	Geometry or higher	Chemistry I	American History II	Arts & Humanities (2 Credits)
12	AP English or English 12	Algebra II or other approved math class		American History III/Economics	
Electives, Dual Credit and CTE Programs					
	Advanced Biology	CMT I	Probability and Statistics*	Advanced 3D Printing and Design	X Coding
	Chem II	CMT II	Critical and Creative Thinking	Physics	Advanced Manufacturing and Design
	Environmental Science	CMT III	Anatomy and Physiology*	Physical Science	Basic Home Maintenance
	Accounting I	Physical Science II	Nutrition and Food Science	3D Modeling and Printing	Critical and Creative Thinking
	Probability and Statistics	Advanced Micro-Computer Applications	Foundations of Web Design	Electrical Circuits	Wildlife Ecology
	Family and Consumer Sciences Exploration	Computer Applications	Career Essentials & Financial Planning	Digital Media Production	Comp. Sci./Info. Tech.
	Introduction to Technology				
ICTC Programs	Machining Technology 10th - 12th	Welding Technology 10th-12th	Automotive Technology 10th-12th	Collision Repair 10th-12th	Information Technology Services 10th-12th
	Culinary Arts 10th-12th	Graphics and Electronics Technology 10th-12th	Carpentry 10th-12th	HVAC 10th-12th	Masonry 10th-12th
Curricular, Extracurricular, and CTE Activities					
			TSA Club		



Purchase Line School District



Engineering Sciences & Industrial Technology Pathway

Sample Occupations					
Transportation Managers	Safety Inspectors	Mason	Agricultural Sales Person	Construction Engineer	
Commercial Pilots	Carpenter	Plumber	Biochemist	Analytical Chemist	
Dispatchers	Architect	Security Alarm Installer	Bioengineer	Zoologist	
Logisticians	Drafter	Lineworker	Livestock Producer	Toxicologist	
Logistics Analysts	Civil Engineer	Roofer	Cartographers	Numerical Analyst	
Warehouse Managers	Surveyor	Landscaper	Park Managers	Pollution Prevention Managers	
Shipping Clerks	Construction Engineer	Automated Manufacturing Technician	Geologists	Demographer	
Facility Maintenance Managers	Drywall Installer	Calibration Technician	Farmer/Rancher	Mathematician	
Mobile Equipment Maintenance Technician	Heating, Ventilation, Air Conditioning and Refrigeration Mechanic	Quality Engineer	Feed and Supply Manager	Nuclear Physicist	
Urban Planners	Iron Worker	Environmental Engineer	Chemical Sales Person	Product Design Engineer	
Credentials					
OSHA Certification-Agriculture-CareerSafe		Ladder Certification-American Ladder Institute		OSHA Certification-Construction-CareerSafe	



Purchase Line School District



Health & Human Services Pathway

Grade	English (4 Credits)	Mathematics (4 Credits)	Science (3 Credits)	Social Studies (3 Credits)	Required Electives and other Activities
9	English 9	Pre-Algebra I or higher	Earth/Environmental Science	Civics & Government	Health (.5 Credits)
10	English 10	Algebra I or higher	Biology 10	American History I	Physical Education (1 Credit)
11	English 11	Geometry or higher	Chemistry I	American History II	Arts & Humanities (2 Credits)
12	AP English or English 12	Algebra II or other approved math class		American History III/Economics	
Electives, Dual Credit and CTE Programs					
	Introduction to Business	Sociology	Civil War Studies	Teen & Law	Anatomy & Physiology
	Sociology	Speech and Creative Writing	Critical and Creative Thinking	Advanced Biology	Accounting II
	Accounting I	Cooking For Special Occasions	Nutrition and Food Science	Digital Media	Wildlife Ecology
	Computer Applications	French I, II, III, IV	Spanish I, II, III, IV	Advanced Microcomputer Applications	Strength & Conditioning
	Cooking Strategies	Piano	Guitar	Military History: Battles and Leaders	Case Method History
				Career Essentials & Financial Planning	Family and Consumer Sciences Exploration
ICTC Programs	Cosmetology 10th-12th	Culinary Arts 10th-12th	Health Occupations 10th-12th		
Curricula, Extracurricular, and CTE Activities					
		Community Service Club		SADD	



Purchase Line School District



Health & Human Services Pathway

Sample Occupations					
President	Child Care Director	Consumer Goods Specialist	Medical Transcriptionist	Legal Secretary	
Cabinet Member	Teacher	Sales Consultant	Patient Advocate	Legal Assistant	
Lobbyist	School Counselor	Market Researcher	Biochemist	Forensic Specialist	
Legislative Aide	Teacher Assistant	College Professor	Lab Technician	Negotiator	
National Security Officer	Psychologists	Social Worker	Pharmaceutical Scientist	Paralegal	
Ambassador	Counselor	Financial Aid Counselor	Research Scientist	Attorney	
Census Clerk	Religious Leader	Acupuncturist	Warden	Court Reporter	
Assessor	Nutritionist	Athletic Trainer	Police Office	Food and Beverage Manager	
Tax Auditors	Barber	Doctor	Detention Officer	Personal Chef	
Border Inspector	Cosmetologist	Nurse	Emergency Management Coordinator	Tourism Marketing Specialist	
City Manager	Embalmer	Dentist	Security Assistant		
County Clerk	Banker	Radiologist	Animal Control Officer	Special Events Coordinator	
Credentials					
		OSHA Certification-Healthcare	OSHA Certification- Public Safety		

Purchase Line Senior High School

***COURSE
DESCRIPTIONS***

Grades 9-12

LANGUAGE ARTS

ADVANCED ENGLISH 9-COURSE NUMBER: 121 (Grade: 9) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th and 8th grade English

This course is NCAA approved.

Advanced English 9 is a fast-paced, academically challenging course that incorporates an enhanced study of vocabulary. The curriculum emphasizes the teaching of composition using the writing process approach. The concentration is on expository writing although other modes are addressed as well. The study of literature focuses upon classic works, drama, poetry, the novel and selected short stories; further, it fosters an appreciation of literature as art and serves as an inspiration for student writing.

ENGLISH 9-COURSE NUMBER: 122 (Grade: 9) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th and 8th grade English

This course is NCAA approved.

English 9 emphasizes the teaching of composition through the writing process approach. The concentration is on expository writing although other modes are addressed as well. The study of literature focuses upon classic works, drama, poetry, the novel and selected short stories; further, it fosters an appreciation of literature as art and serves as an inspiration for student writing.

READING AND COMPREHENSION-COURSE NUMBER:611 (Grades: 9-12) CREDIT: 1.00

Career Pathway(s): All

Subject: English

The course is designed to place students on their direct instruction level and pace according to the students' needs. Frequent review and assessment of reading skills and vocabulary direct the need for further support through differentiated instruction.

ADVANCED ENGLISH 10-COURSE NUMBER: 131 (Grade: 10) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th, 8th and 9th grade English

This course is NCAA approved.

These goals help the student to prepare for more academically challenging work. The necessary skills of reading, writing, listening and speaking are developed in this class. Units cover short stories, novels, drama, poetry and research. Students also work with vocabulary and conventions of language during the year. Students will complete persuasive, expository, descriptive and narrative writings following the writing process.

ENGLISH 10-COURSE NUMBER: 132 (Grade:10) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th, 8th and 9th grade English

This course is NCAA approved.

The necessary skills of reading, writing, listening and speaking are developed in this class. Units cover short stories, novels, drama, poetry and research. Students also work with vocabulary and conventions of language during the year. Students will complete persuasive, expository, descriptive and narrative writings following the writing process.

ADVANCED ENGLISH 11-COURSE NUMBER: 141 (Grade: 11) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th, 8th, 9th and 10th grade English

This course is NCAA approved.

Course time is used for challenging assignments, which may include advanced vocabulary, SAT practice exercises and Pre-AP materials to prepare students for the senior AP English course and college-level work. Reading, writing, listening and speaking skills are the focus of this course. Whole class, small group and independent assignments are given both for literature and for writing. The curriculum is focused on American literature with units divided into various historical time periods. Students use the writing process to complete narrative, expository and persuasive compositions, including a research project. Grammar is taught both through focused mini-lessons and through regular revisions of various writing assignments.

ENGLISH 11-COURSE NUMBER: 142 (Grade: 11) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th, 8th, 9th and 10th grade English

This course is NCAA approved.

Reading, writing, listening and speaking skills are the focus of this course. Whole class, small group and independent assignments are given both for literature and for writing. The curriculum is focused on American literature with units divided into various historical time periods. Students use the writing process to complete narrative, expository and persuasive compositions, including a research project. Grammar is taught both through focused mini-lessons and through regular revisions of various writing assignments. Occasional remediation lessons and practice for the Keystone exams may be part of the course when time permits.

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION*-COURSE NUMBER: 150 (Grade: 12) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th, 8th, 9th, 10th and 11th grade English; B+ average in Advanced English 11 and Proficient or Advanced on Keystone Literature Exam

This course is NCAA approved.

All students enrolled in the AP English Language & Composition course must complete the nationally administered Advanced Placement English Language & Composition examination in May. The student is responsible for the cost of the exam, which is lowered for students who receive free or reduced lunches.

During this course, students aim at becoming skilled readers of prose written in a variety of periods, disciplines and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The AP Language course assumes that students already understand and use standard English grammar. The intense concentration on language use in this course should enhance their ability to use grammatical conventions both appropriately and with sophistications as well as to develop stylistic maturity in their prose. Students must pass the summer reading quizzes at the beginning of the school year to stay in this course.

This course has been approved for Saint Francis University's College in High School Program. Students can opt to take this course for college credit.

ADVANCED ENGLISH 12-COURSE NUMBER: 151 (Grade: 12) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th, 8th, 9th, 10th and 11th grade This course is NCAA approved.

This course is for the college-bound senior and is dedicated to improving reading, writing, listening and speaking skills. The student will read a variety of novels, plays, short fiction and non-fiction selections. All writing modes (narrative, informative, persuasive) will be incorporated with a major focus on critical thinking – analysis, synthesis and evaluation. Lessons on the conventions of language will be incorporated on an as-needed basis. This course is designed to prepare the student for collegiate and professional writing experiences. Weekly vocabulary studies will also be incorporated.

ENGLISH 12-COURSE NUMBER: 152 (Grade: 12) CREDIT: 1.00

Career Pathway(s): All

Subject: English

PREREQUISITES: 7th, 8th, 9th, 10th and 11th grade English This course is NCAA approved.

This course is dedicated to improving reading, writing, listening and speaking skills. The student will read a variety of novels, plays, short fiction and non-fiction selections. All writing modes (narrative, informative, persuasive) will be incorporated with a major focus on critical thinking – analysis, synthesis and evaluation. Lessons on the conventions of language will be incorporated on an as-needed basis. Vocabulary studies will be incorporated through the literature and reading selections.

SPEECH AND CREATIVE WRITING-COURSE NUMBER: 160 (Grades: 9-12) CREDIT: 1.00

Career Pathway(s): Arts & Communications, Health & Human Services, Business, Finance, & Information Technology

Subject: Arts & Humanities or Elective

The number one fear among all people is speaking in front of groups, whether in a “character situation” or in a formal situation. Through repeated opportunities to perform and speak in front of an audience, students in this course will gain life-long speaking skills and self-confidence.

Students will perform individually and in groups through pantomime, improvisation, monologues and plays. Students will learn about drama and stage production. Speech will focus on format, delivery, length and content. This course also features creative writing. Students will use the writing process to develop narrative pieces along with poetry. With instructor guidance, students may explore their own writing interests as well. Furthermore, one of the intents for the creative writing course is to seek opportunities for publication.

NEWSPAPER-COURSE NUMBER: 173 (Grades: 9-12) CREDIT: 1.00

Career Pathway(s): Arts & Communications, Health & Human Services, Business, Finance, & Information Technology

Subject: Arts & Humanities or Elective

This course produces Dragon Tales, a monthly student publication. The paper's purpose is to inform readers of school events and to provide an opportunity for students to express their views and ideas. Students handle all areas of production - writing, type layout, photography and booking. Dragon Tales is a self-supporting newspaper.

YEARBOOK-COURSE NUMBER: 175 (Grades: 11-12) CREDIT: 1.00

Career Pathway(s): Arts & Communications

Subject: Elective

This course is designed to give students the opportunity to design, produce, promote and market a product. As part of the course, students encounter all aspects of running a business. They must demonstrate the ability to communicate effectively with employees of businesses that help to produce the yearbook. They learn the importance of careful planning, creative designing, drafting and editing of texts, salesmanship and responsibility in meeting deadlines. Salesmanship refers to raising funds for the yearbook through selling ads. In addition, they must be able to work both in groups and independently if necessary.

All work for the course is completed through the use of a computer program. Therefore, it is essential for the student to take a computer course prior to enrolling in this class.

Furthermore, the student will work with different methods of organization and with different points of view in the writings. The student will be required to work in peer response groups and to keep a portfolio of work.

ENGLISH 11-12 - COURSE NUMBER: 014 (Grades: 11-12) CREDIT: 1.00**

Career Pathway(s): All

Subject: English

This course will continue to build functional language arts (i.e. reading and writing) skills at a high school level. Students will continue to build reading and writing skills applicable to real life situations. Pre-vocational skills are specifically integrated into the course with crucial school-to-work activities. Increasing reading, academic and domain-specific vocabulary is a crucial component of this course. Students may take the course for one year or two as the content will alternate years. The course will provide students an opportunity to build increased confidence in reading and writing skills and will be adjusted to meet individual needs.

ENGLISH 10 - COURSE NUMBER: 015 (Grades: 9-10) CREDIT: 1.00**

Career Pathway(s): All

Subject: English

This course will continue to build functional language arts (i.e. reading and writing) skills at a high school level. A focus on literary elements, writing for specific purposes and advancing skills in writing mechanics will be the focus of the course. Increasing reading, academic and domain-specific vocabulary is a crucial component of this course. Students may take the course for one year or two as the content will alternate years. Opportunities to build related transition and pre-vocational skills will be incorporated in instruction as appropriate for the grade level. The course will provide students an opportunity to build increased confidence in reading and writing skills and will be adjusted to meet individual needs.

ENGLISH 9 - COURSE NUMBER: 016 (Grades: 9-10) CREDIT: 1.00**

Career Pathway(s): All

Subject: English

This course will continue to build functional language arts (i.e. reading and writing) skills at a high school level. A focus on literary elements, writing for specific purposes and advancing skills in writing mechanics will be the focus of the course. Increasing reading, academic and domain-specific vocabulary is a crucial component of this course. Students may take the course for one year or two as the content will alternate years. Opportunities to build related transition and pre-vocational skills will be incorporated in instruction as appropriate for the grade level. The course will provide students an opportunity to build increased confidence in reading and writing skills and will be adjusted to meet individual needs.

READING-COURSE NUMBER: 007 (Grades: 9-Graduation) CREDIT: 1.00

Career Pathway(s): All

Subject: English

The reading class utilizes the “Job Talk” program as its curriculum. This program focuses on students learning appropriate job and workplace vocabulary. Comprehension of such vocabulary is also a focus. The vocabulary within the curriculum moves from beginner to advanced.

ENGLISH-COURSE NUMBER: 002 (Grades: 9-Graduation) CREDIT: 1.00

Career Pathway(s): All

Subject: English

The English course focuses the student’s attention towards real-world applications of the written language. Students learn to fill resumes, job applications, governmental forms, timecards, etc.

SOCIAL SCIENCES

CIVICS and GOVERNMENT-COURSE NUMBER: 222 (Grade: 9) CREDIT: 1.00

Career Pathway(s): All

Subject: Social Science

Civics is a course designed to make students aware of their government: its origins, operations and application to today’s living. Students will compare our democratic form of government with

other forms of government around the world. Students will also explore the branches of government and the Constitution to learn their role in society.

AMERICAN HISTORY I-COURSE NUMBER: 232 (Grades:10) CREDIT: 1.00

Career Pathway(s): All

Subject: Social Science

This course is NCAA approved.

American History I covers the early developments of American life until the end of the Civil War. It is designed to develop, within the students, a foundation for American life and culture that they can build upon. By inquiring into the past, students can gain a fuller understanding and background knowledge of the country, so that they will be able to take their rightful place in our democracy. By investigating events, issues, and people in America's history, the student will more clearly comprehend the present and its problems. By the study of the 15th through 19th centuries, the student will begin to realize and identify with the institutions, traditions of the past, present, and future of America. By allowing the student to develop some critical thinking, he/she will be able to solve the problems that will face them in the future. Through basic understanding, critical thinking, and research, a student should be moving towards becoming a better and more responsible citizen of society. Emphasis will be placed upon the American Indians, European conditions, the Period of Discovery, Road to Revolution (French and Indian War and Revolutionary War), Constitution, and growth of America until the Civil War. The social, cultural, and governmental developments, along with national events, trends, and movements will be included. Emphasis will also be placed on how these factors influenced the growth of Pennsylvania.

AMERICAN HISTORY II- COURSE NUMBER: 242 (Grade: 11) CREDIT: 1.00

Career Pathway(s): All

Subject: Social Science

This course is NCAA approved.

Regardless of the future occupation or profession of the students, they are, first and foremost, American citizens. This course will give the subject matter background to help the students carry on the American tradition of democracy, of preserving our ideals and remedying our faults. Only the study of American History will provide the story of the inheritance that has been received from the past, and provide the information necessary for the wise preservation and improvement of our heritage. The course will cover topics and subjects that will give the student the ability to demonstrate the above criteria. Course material will begin after the Civil War to the present.

AMERICAN HISTORY III/ECONOMICS- COURSE NUMBER: 252 (Grade: 12) CREDIT: 1.00

Career Pathway(s): All

Subject: Social Science

This course is NCAA approved.

In the fall semester, students will study American History III. This is a course designed as a culmination exercise in the study of history for the exiting senior student. The course begins with the Civil Rights era and continues through modern American History with the purpose of helping the student to define their citizenship and role in the modern American society.

Students will be able to explain how world events impact the lives of current US citizens and how decisions within the US can also impact the world.

During the spring semester, students will study economics. The course will emphasize the fundamentals of economics, macroeconomics and international economics. Emphasis will be spent on some of the problems that relate most directly to the student. Because much of our life is devoted to the varied, intricate and difficult task of making a living, of procuring and spending, of understanding our rights and our government, students will be exposed to the study of economics.

American History-COURSE NUMBER: 043 (Grades: 7-12) CREDIT: 1.00**

Career Pathway(s): All

Subject: Social Science

American History covers the early developments of American life through the Civil War. By inquiring into the past, students can gain a fuller understanding and background knowledge of the country so that they will be able to take their rightful place in our democracy. Emphasis will be placed on how historical factors influenced growth in America.

SOCIOLOGY- COURSE NUMBER: 273 (Grades: 11-12) CREDIT: .50

**Career Pathway(s): Art & Communication, Business, Finance, & Information
Technology, Health & Human Services**

Subject: Arts & Humanities or Elective

This course is NCAA approved.

Sociology is the "Student of Human Relationships" with examination of the basic concepts, principles and methods central to the scientific study of Sociology. This course is designed to help the student understand society and relationships within society. They will gain an understanding of why changes occur and how he/she can help in these changes. There will be a basic development of leaders in sociology, cultural diversity and conformity and adaptations, social structure with values, norms and sanctions, along with personality development. All of this will lead the student to understand problems in today's society and how they relate or can work at solving them. The student should then appreciate the rich diversity that is possible in social life.

TEEN AND LAW - COURSE NUMBER: 275(Grades: 11-12) CREDIT: 1.00

**Career Pathway(s): Business, Finance, & Information Technology, Health & Human
Services**

Subject: Arts & Humanities or Elective

This course is NCAA approved.

This course is an attempt to have a program that clarifies the basic issue of the justice system, which is, protecting the right of an individual while safeguarding the security of society. We wish to show that the concept of law is a dynamic and changing force in society, rather than a static institution. We hope to affect student attitudes, values, skills and goals towards society. The student will be able to demonstrate his/her understanding of the above criteria through various activities from mock trials to simulation games.

MILITARY HISTORY: BATTLES AND LEADERS - COURSE NUMBER: 276 (Grades: 9-12)
CREDIT: .25

Career Pathway(s): Health & Human Services

Subject: Arts & Humanities or Elective

This course is intended to highlight military leaders and engagements that altered the course of events at a particular time. The objective of the course is to familiarize students with world renown military conflicts, major historical figures, and changing technologies in a way that teaches the importance of values and problem solving techniques that lead to success.

CASE METHOD HISTORY - COURSE NUMBER: 277 (Grades: 9-12) CREDIT: 1.00

Career Pathway(s): Health & Human Services

Subject: Arts & Humanities or Elective

This course is intended to study issues in history through examination of legal cases. In each case an essential question is posed and students will read, research, debate, and formulate a conclusion based on evidence.

CIVIL WAR STUDIES* -COURSE NUMBER: 280 (Grades: 11-12) CREDIT: 1.00

Career Pathway(s): Health & Human Services

Subject: Elective

This course is NCAA approved.

This course is an in-depth look at the Civil War time period (1850-1876) for students who have already completed American History I and II. This course is designed to help students understand why the Civil War was fought and the everlasting effects of the war. The course will look at President Abraham Lincoln and President Davis, US and Confederate Generals, battles, the common soldier, the role of women and Civil War society. The course will incorporate library research, internet research, journal writing, paper writing and basic computer skills. Through basic understanding, critical thinking and research, a student should understand why the nation was willing to rip itself apart to fight for a cause.

SOCIAL STUDIES-COURSE NUMBER: 005 (Grades: 9-Graduation) CREDIT: 1.00

Career Pathway(s): All

Subject: Social Science

Social Studies utilizes the Unique Learning and New-2-You Curriculums. These curriculums offer lessons on a variety of social studies topics. The lessons are designed to meet various student needs and levels. The lessons are available at four different levels and consist of stories, comprehension questions, activities and much more.

MATH

PRE-ALGEBRA - COURSE NUMBER: 328 (Grades: 9-11) CREDIT: 1.00

Career Pathway(s): All

Subject: Math

Pre-Algebra places emphasis on the structure and the techniques of Algebra. The course will focus on operations with real numbers and expressions, linear equations and linear inequalities. Other concepts will be rational and irrational numbers, radicals, exponents, functions, geometric transformations, Pythagorean theorem, volume and patterns of bivariate data.

ALGEBRA I- COURSE NUMBERS: 330 (Grades: 9-11) CREDIT: 1.00

Career Pathway(s): All

Subject: Math

This course is NCAA approved.

The Algebra I course places emphasis on the structure and the techniques of Algebra. The approach is not only mathematically correct, but also informal and intuitive rather than axiomatic. It encourages reasoning and discovery and the use of precise definitions. Supplemental online software will also be used.

ALGEBRA II- COURSE NUMBER: 331/332 (Grades: 9-12) CREDIT: 1.00

Career Pathway(s): All

Subject: Math

PREREQUISITE: Algebra I

This course is NCAA approved.

Algebra II is designed to provide a review of the basic terminology, notations, concepts, skills and applications of Algebra I by examining the structure of the real number system. The aim is to clarify and broaden old ideas in Algebra by introducing new concepts. Supplemental online software will also be used.

GEOMETRY- COURSE NUMBER: 333 (Grades: 10-12) CREDIT: 1.00

Career Pathway(s): All

Subject: Math

PREREQUISITE: Algebra I

This course is NCAA approved.

Geometry is taught to those students who have completed Algebra I and/or Algebra II. Geometry is taught in the hope that the students will understand the basic structure of geometry, develop powers of spatial visualization and experience the stimulation and satisfaction that comes from clear and sometimes creative thinking. Supplemental online software will also be used.

PROBABILITY & STATISTICS*- COURSE NUMBER: 334 (Grades: 11-12) CREDIT: 1.00

**Career Pathway(s): Health & Human Services, Business, Finance, & Information
Technology, Engineering Sciences & Industrial Technology**

Subject: Elective

PREREQUISITE: Algebra II and Concurrently with Geometry needs teacher recommendation
This course is NCAA approved.

Probability & Statistics covers the nature of statistics, methods of describing sample data and numerical methods for analyzing data. The basic theory of probability and some of the properties of distribution are given. Some time is spent on normal distribution and sampling. This course has been approved for Saint Francis University's College in High School Program and for Mount Aloysius's College in High School Program. Students can opt to take this course for college credit.

ADVANCED MATH/TRIGONOMETRY*- COURSE NUMBER: 336 (Grades: 11-12) CREDIT: 1.00

**Career Pathway(s): Health & Human Services, Business, Finance, & Information
Technology, Engineering Sciences & Industrial Technology**

Subject: Elective

PREREQUISITE: Algebra II and Concurrently with Geometry needs teacher recommendation
This course is NCAA approved.

Advanced Math/Trigonometry is taught to those who have successfully completed Algebra I and Algebra II. It is taught with the hope that students will further understand the structure of the number systems, review and expand their dexterity in the manipulation of algebraic expressions and understand properties of the trigonometric functions. Coordinate geometry and analytical geometry will be covered in detail. This course should give the students the background they will need in physics and more advanced math courses, such as calculus.

This course has been approved for Saint Francis University's College in High School Program and for Mount Aloysius's College in High School Program. Students can opt to take this course for college credit.

CALCULUS*- COURSE NUMBER: 338 (Grade: 12) CREDIT: 1.00

**Career Pathway(s): Health & Human Services, Business, Finance, & Information
Technology, Engineering Sciences & Industrial Technology**

Subject: Elective

PREREQUISITE: Advanced Math/Trig

This course is NCAA approved.

Calculus emphasizes the concepts of calculus most useful to students who wish to major in business, economics, life sciences or social sciences. The contents consist of a thorough presentation of the calculus for functions of a single variable (including the exponential and logarithmic functions) and an introduction to multivariable calculus. The textbook, syllabus, assignments, tests and final test are exactly the same as those used in the mathematics 0120 course at the University of Pittsburgh.

This course has been approved for Saint Francis University's College in High School Program. Students can opt to take this course for college credit.

MATH AND COMPUTER APPLICATIONS- COURSE NUMBER: 340 (Grades: 10-12) CREDIT: 1.00

Career Pathway(s): All

Subject: Math or Elective

PREREQUISITE: Successful completion of Algebra I

This course will apply mathematical concepts using a variety of computer technology. The student will be expected to use the various computer technologies to reinforce the previously learned mathematical concepts. The course will demonstrate the importance of math and how it

is used in computers. The students will learn basic computer science concepts while reinforcing the math concepts.

BUSINESS MATH- COURSE NUMBER: 341 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Business, Finance, & Information Technology

Subject: Math or Elective

Business Math is designed to provide students with basic math skills, managing money, managing expenses, making financial decisions, making business decisions and managing business finances. This course meets the Entrepreneurship business plan and the Career Retention and Advancement Budgeting Standard of the PA Career to Work Standards.

PERSONAL CONSUMER FINANCE- COURSE NUMBER: 342 (Grades: 9-12) CREDIT: .50

Career Pathway(s): All

Subject: Math or Elective

This course is designed to provide students with knowledge of economics, planning personal finance, banking and credit, investing financial resources and protecting your finances. This course meets the Career Retention and Advancement Budgeting Standard of the PA Career to Work Standards.

MATH SAT PREP- COURSE NUMBER: 343 (Grades: 11-12) CREDIT: .25

Career Pathway(s): All

Subject: Elective

This 9-week course will help prepare students to succeed on the math portion of the SAT.

CONSUMER MATH APPLICATIONS- COURSE NUMBER: 040 (Grade 12) CREDIT: 1.00**

Career Pathway(s): All

Subject: Math

This course will allow students to build real-life math application skills related to transition from school-to-work and basic home budgeting.

MATH-COURSE NUMBER: 003 (Grades: 9-Graduation) CREDIT: 1.00

Career Pathway(s): All

Subject: Math

The math course utilizes the "Money Manager" program. This program is designed to teach students about math as adults. It covers such topics as writing checks, deposits, keeping a register, balancing a checkbook, etc. Students are required to keep a checkbook and banking materials for the class.

Math 9-10-COURSE NUMBER: 045 (Grades: 9-10) CREDIT: 1.00**

Career Pathway(s): All

Subject: Math

This course is designed to provide instruction in the areas of pre-algebra and algebra skills. It places an emphasis on the structure and techniques of algebra. The course will focus on operations with real numbers and expressions, linear equations, and linear inequalities. It incorporates reasoning, problem solving and discovery and the use of precise definitions with the application of algebra to real life situations.

SCIENCE

PHYSICAL SCIENCE - COURSE NUMBER: 422 (Grade: 9-12) CREDIT: 1.00

Career Pathway(s): Engineering Sciences & Industrial, Business, Finance, & Technology, Health & Human Services

Subject: Elective

This course is NCAA approved.

This is an introductory physics and chemistry course. Math application principles will be used throughout the course. Students will be introduced to the major units of physics and chemistry, including Newtonian mechanics, chemical properties and chemical interactions. Laboratory/exploratory exercises are an integral component of this course.

EARTH/ENVIRONMENTAL SCIENCE 9 - COURSE NUMBER: 423 (Grade: 9) CREDIT: 1.00

Career Pathway(s): All

Subject: Science

Environmental Science is an interdisciplinary course that integrates topics from biology, earth science, and chemistry. Environmental Science helps students develop an awareness of and an appreciation for the processes that sustain and impact life on earth, including human life. Students explore the patterns and processes of Earth and how these are affected by natural and human impacts. Topics of study include, but are not limited to, ecology and energy flow; population dynamics; biodiversity and endangered species; energy and energy resources; air, water, and land issues; resource conservation and sustainability. Environmental Science is relevant to everyday life and helps provide students with the scientific knowledge and skills necessary to make informed decisions about the environment and their futures regardless of the career paths they may take. Students will complete projects as well as design and carry out lab and field investigations. PA Science Standards: 3.1.9-12.E-G,H-N; 3.3.9-12.E,K-S; 3.4.9-12.A-I.

BIOLOGY 10- COURSE NUMBER: 431/432 (Grade: 10) CREDIT: 1.00

Career Pathway(s): All

Subject: Science

This course is NCAA approved.

Biology 10 is the study of life and natural environments. Emphasis is on the cell as the basic unit of all life. Students are expected to develop a working understanding of why life occurs and be able to explain the basic functions of living things including cell processes. Some topics include: The chemistry of life, photosynthesis, respiration, glycolysis, and biological interactions of natural environments/ecosystems, DNA and genes, patterns of heredity and human genetics and genetic technology. Basic science process skills are emphasized in the first grading period and strengthened throughout the school year.

WILDLIFE ECOLOGY- COURSE NUMBER: 433 (Grade: 9-12) CREDIT: .25

Career Pathway(s): Engineering Sciences & Industrial Technology, Health & Human

Services

Subject: Elective

Wildlife Ecology is a project-based course that will allow students to study the wildlife of North America with an emphasis on animals from Pennsylvania. Students will explore basic forestry and tree identification as well as wildlife identification and ecology. Students will learn to identify game and nongame wildlife species, including fish, amphibians, reptiles, birds, and mammals. In addition, students will research careers related to forestry and wildlife. Students will conduct research, complete projects, deliver presentations, and design and carry out lab and field investigations. This course will provide relevant information for general students as well as those exploring careers in a biology, forestry, environmental, or wildlife-related field. PA Science Standards: 3.1.9-12.I, L-O,V-X; 3.4.9-12.A-I.

ADVANCED BIOLOGY*- COURSE NUMBER: 438 (Grade: 12) CREDIT: 1.00

Career Pathway(s): Engineering Sciences & Industrial Technology, Health & Human Services

Subject: Elective

PREREQUISITE: Chemistry I

This course is NCAA approved.

There are three primary objectives in this course: 1. The development of integrated process skills that is essential to academic achievement in higher education; 2. The development of self-learning skills; and 3. Provision for opportunities for the study of basic and advanced biological processes providing a background for advanced life science studies in higher education. Advanced Biology is designed for students interested in preparation for careers in the biological, medical and health fields. This course meets the requirements for NHS membership.

This course has been approved for Mount Aloysius's College in the High School Program. Students can opt to take this course for college credit.

ANATOMY AND PHYSIOLOGY* - COURSE NUMBER: 439 (Grades: 11-12) CREDIT: 1.00

Career Pathway(s): Human & Health Services

Subject: Elective

PREREQUISITES: Successful completion of Chemistry I

This is a full-year course exploring anatomy and physiology with an emphasis placed on human body systems. Topics covered include cells and tissues, integumentary system, digestive system, circulatory system, respiratory system, excretory system, endocrine system, reproductive systems, nervous system, muscular system, skeletal system and sensory systems. The course is designed for the college-bound student interested in a medical profession (medicine, nursing, chiropractics, physical therapy, etc.). The textbook for this course is a college text used by many universities in their first year biology courses. Students should expect a demanding workload including, but not limited to, weekly readings, weekly quizzes, homework, lab activities, chapter tests and dissection. There will be a comprehensive final exam and lab practical. This course meets the requirements for NHS membership.

This course has been approved for Saint Francis University's College in High School Program and for Mount Aloysius's College in High School Program. Students can opt to take this course for college credit.

CHEMISTRY I- COURSE NUMBER: 451 (Grades: 11-12) CREDIT: 1.00**Career Pathway(s): All****Subject: Science****PREREQUISITE:** Successfully completed Biology and Algebra I

This course is NCAA approved.

Chemistry I focuses on basic chemical principles. It is designed to give the student the opportunity to better understand his/her work by investigating, analyzing and classifying changes in matter. Topics include matter, energy, formula and equation writing, atomic structure, bonding, physical states, solutions and kinetic theory.

Laboratory is an important part of the course. It provides an opportunity for the student to investigate, analyze and interpret his/her results in terms of the concepts being presented in class. Accurate reporting and analysis of experimental data in a well-organized laboratory report is stressed.

CHEMISTRY II- COURSE NUMBER: 461 (Grade : 12) CREDIT: 1.00**Career Pathway(s): Engineering Sciences & Industrial Technology, Health & Human Services****Subject: Elective****PREREQUISITE:** Chemistry I

This course is NCAA approved.

Chemistry II is a continuation of Chemistry I. It is designed to give each student opportunities to expand understanding of chemical principles and develop more sophisticated science process skills. Topics such as oxidation-reduction, reaction rate and organic chemistry will emphasize the practical applications of chemistry. Experiments, laboratory reports and problem-solving will be stressed. The student will also have many opportunities to design and perform laboratory projects of interest throughout the course. This course does not meet the requirements for National Honor Society membership.

PHYSICS* - COURSE NUMBER: 470 (Grade : 12) CREDIT: 1.00**Career Pathway(s): Engineering Sciences & Industrial Technology, Health & Human Services****Subject: Elective****PREREQUISITES:** Algebra I and II, Advanced Math/Trig, Chemistry I This course is NCAA approved.

Physics is the study of the physical laws that govern nature and of the relationships between matter and energy. This course emphasizes mechanics, which is usually the first semester physics course in college. Thermodynamics and acoustics (sound) are studied as well. Practical applications of these topics will be explored through problem-solving, discussion and experimentation. Current technological methods will be incorporated into the classroom whenever possible. This course is designed for future engineers, medical profession occupations and science careers. This course meets the requirements for NHS membership.

This course has been approved for Saint Francis University's College in High School Program and for Mount Aloysius's College in High School Program. Students can opt to take this course for college credit.

PHYSICAL SCIENCE II - COURSE NUMBER: 475 (Grades : 12) CREDIT: 1.00

Career Pathway(s): Engineering Sciences & Industrial Technology, Health & Human Services

Subject: Elective

PREREQUISITE: Physical Science 9

Physical Science II picks up where Science 9 left off and will further the students' understanding of topics such as: Thermal Energy; Electricity; Magnetism and Its uses; Introduction to Wave; Sound; Electromagnetic Waves; Light; Mirrors and Lenses; Chemical Solution, Acids, Bases and Salts; Organic Chemistry intro; Alloys; Versatile materials; Polymers and Composites. Laboratory/exploratory exercises are an integral component of this course.

GENERAL SCIENCE II - COURSE NUMBER: 044 (Grades: 11-12) CREDIT: 1.00**

Career Pathway(s): All

Subject: Science

This course is designed to review a broad overview of general science topics. The complete curriculum covers a two-year period where students are provided a heightened view of the role science plays in everyday living. Emphasis is on Environmental Science concepts and review of Biology concepts. Work will be done to reinforce Keystone testing concepts and expand understanding of human impact on the environment.

SCIENCE-COURSE NUMBER: 004 (Grades: 9-Graduation) CREDIT: 1.00

Career Pathway(s): All

Subject: Science

Science utilizes the Unique Curriculum. This program offers lessons on a variety of science-related topics. The lessons are designed to meet various student needs and levels.

TECHNOLOGY EDUCATION

CMT I/ENGINEERING & DESIGN- COURSE NUMBER: 551 (Grades : 9-12) CREDIT: 1.00

Career Pathway(s): Business, Finance, & Information Technology, Engineering Sciences & Industrial Technology

Subject: Elective

This course will provide students with an introduction to designing and development of projects through the use of manual and CAD Drafting. They will also learn the use and operation of hand tools and basic machines in building with wood and metal. Students will also be introduced to different varieties of woods and metals and their uses. Emphasis will be on safety and orderly planning of projects.

CMT II/ENGINEERING & PRODUCT DEVELOPMENT-COURSE NUMBER: 552 (Grades : 10-12) CREDIT: 1.00

Career Pathway(s): Business, Finance, & Information Technology, Engineering Sciences & Industrial Technology

Subject: Elective

PREREQUISITE: CMT I

Construction/Manufacturing Technology II is a continuation of CMT I. The class will teach and practice the fabrication of objects in metal and wood using various machine and hand powered tools. CMT II will have a continuation of welding and the use of CNC machines for more advanced applications. This course will also introduce innovations in CAD and digital manufacturing, preparing students for the changes taking place in the workforce that are forever transforming the future of making. Safety and orderly planning of projects will be a high priority.

CMT III/ARCHITECTURAL AND CONSTRUCTION CAREERS- COURSE NUMBER: 553 (Grades : 10-12) CREDIT: 1.00

Career Pathway(s): Business, Finance, & Information Technology, Engineering Sciences & Industrial Technology

Subject: Elective

PREREQUISITE: CMT I & CMT II

CMT III will provide students with a detailed understanding of designing and development of projects through the use of manual and CAD drafting. The topics covered in this class include structures, architectural design, structural engineering and basic residential construction. This course will demonstrate how current appropriate technologies can be applied in today's society.

ADVANCED MANUFACTURING AND DESIGN- COURSE NUMBER: 576 (Grades : 10-12) CREDIT: .50

Career Pathway(s): Business, Finance, & Information Technology, Engineering Science & Industrial Technology

Subject: Elective

This course will provide participants with the knowledge and skills to prepare for and successfully compete in the State/National TSA events. Students will research, engineer and build a variety of prototypes. Individuals will also complete a portfolio for each project. Students will extend their abilities by utilizing the following technologies: CAD, CAM, woodworking and metal formation.

3D MODELING AND PRINTING- COURSE NUMBER: 575 (Grades : 10-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology

Subject: Arts and Humanities or Elective

3D Printing is used across the globe in a variety of areas. This course will provide students with an experience to learn how 3D printing works and implement STEAM based curriculum.

ELECTRICAL CIRCUITS - COURSE NUMBER: 577 (Grades : 11-12) CREDIT: .25

**Career Pathway(s): Engineering Science & Industrial Technology,
Business, Finance, & Information Technology**

Subject: Elective

Students will learn the basic components electrical circuits and electrical wiring diagrams as well as how to solder electrical circuits. Students will use representations of Coulomb's Law to describe and predict the electrostatic forces between objects as well as plan and conduct investigations to provide evidence that electric currents can produce a magnetic field and that changing a magnetic field can produce an electrical current.

CODING - COURSE NUMBER: 578 (Grades : 9-12) CREDIT: 1.00

**Career Pathway(s): Engineering Science & Industrial Technology,
Business, Finance, & Information Technology**

Subject: Elective

Students get practical experience with the tools, techniques and concepts needed to build a basic iOS app from scratch. Coding language is expanded upon and utilized throughout the course. Students will gain additional experience with Apple iPads and Mac computers. Students are evaluated on completed projects and documentation portfolios.

ROBOTICS-COURSE NUMBER: 580 (Grades : 9-12) CREDIT: 1.00

**Career Pathway(s): Engineering Science & Industrial Technology,
Business, Finance, & Information Technology**

Subject: Elective

This is a one-year course in robotics using Lego Mindstorms. Emphasis will be placed on problem solving. The student will learn the basics of robotics including behaviors, Electricity/Electromagnetism, programming sensors, mechanics and measurement. The student should have good problem solving skills and be a good independent worker.

COMP SCI/INFO TECH -COURSE NUMBER: 581 (Grades : 9-12) CREDIT: .25

**Career Pathway(s): Engineering Science & Industrial Technology,
Business, Finance, & Information Technology**

Subject: Elective

Introduction to the central ideas, practices and impact of technology and computational thinking. Covers the seven big ideas: creativity, abstraction, data and information, algorithms, programming, the internet and global impact. Computational thinking practices: connecting computing, creating computational artifacts, abstracting, analyzing problems and artifacts, communicating, and collaborating. Examines the difference between Computer Science and Information Technology.

AVIATION-COURSE NUMBER: 582 (Grades : 9-12) CREDIT: 1.00

**Career Pathway(s): Engineering Science & Industrial Technology,
Business, Finance, & Information Technology**

Subject: Elective

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

WORK EXPERIENCE- COURSE NUMBER: 060 (Grade: 12) GRADE: 12

Career Pathway(s): All

Subject: Elective

The ARIN Work Experience Program places students into part-time community jobs, 10-15 hours per week, while continuing to attend school to receive academic instruction. The jobs are generally unskilled in nature and structured to develop entry-level skills. Studies have shown that students with special needs, who are provided with a planned, guided, school-related work experience, enjoy greater success in employment following graduation.

VOCATIONAL EDUCATION-COURSE NUMBER: 010 (Grades: 9-Graduation) CREDIT: 4.00

Career Pathway(s): All

Subject: All

The vocational education class provides students an opportunity to acquire work skills and behaviors in a simulated work situation. Students in the course participate in car detailing, management of a greenhouse and run a weekly coffee shop for the faculty and staff. The activities require students to develop the ability to follow work directives, be specialized in a given task, collect and record money contributions and learn workplace conduct and social skills.

BASIC HOME MAINTENANCE-COURSE NUMBER: 009 (Grades: 9-Graduation) CREDIT: 1.00

Career Pathway(s): All

Subject: Elective

Through hands-on learning, students become familiar with the proper use of basic home tools through building of small projects.

FOREIGN LANGUAGES

It is strongly recommended that students planning on higher education complete a three-year sequence in one language.

SPANISH I - COURSE NUMBER: 621 (Grades: 9-12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology,
Business, Finance, & Information Technology, Health and Human
Services**

Subject: Arts and Humanities or Elective

This course is NCAA approved.

Spanish I begins to form the foundation that will enable students to function appropriately in a Spanish-speaking culture, build communicative competence, express themselves on a personal level and appreciate the role of Hispanic countries in a global context.

SPANISH II - COURSE NUMBER: 622(Grades: 10-12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Business, Finance, & Information
Technology, Health and Human Services**

Subject: Arts and Humanities or Elective

PREREQUISITE: Spanish I

This course is NCAA approved.

Spanish II reviews and continues to develop the five areas of foreign language competences – listening, speaking, reading, writing and cultural knowledge, working to develop conversational proficiency and appropriate grammatical usage within specific thematic areas.

SPANISH III -COURSE NUMBER: 623 (Grades: 11-12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Business, Finance, & Information
Technology, Health and Human Services**

Subject: Arts and Humanities or Elective

PREREQUISITE: Spanish I and II

This course is NCAA approved.

Spanish III continues to refine grammatical, lexical and cultural knowledge. Students work to express themselves appropriately in both spoken and written language.

SPANISH IV -COURSE NUMBER: 624 (Grades: 12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Business, Finance, & Information
Technology, Health and Human Services**

Subject: Arts and Humanities or Elective

PREREQUISITE: Spanish I, II and III

This course is NCAA approved.

Spanish IV is open to students who have successfully completed Spanish I through III with a strong foundation in the language. Students continue to study the five areas of language competence. Multiple verb tenses, advanced grammatical structures and a wide variety of vocabulary topics are studied. Independent work and research may be included.

FRENCH I - COURSE NUMBER: 631 (Grades: 9-12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology,
Business, Finance, & Information Technology, Health and Human
Services**

Subject: Arts and Humanities or Elective

This course is NCAA approved.

French I provides students with basic oral, listening, reading and writing skills in the French language that will establish a foundation of skills necessary to communicate in a French-speaking region. A variety of basic subjects and cultural aspects of various French-speaking regions are incorporated into the instruction.

FRENCH II- COURSE NUMBER: 632 (Grades: 10-12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Business, Finance, & Information
Technology, Health and Human Services**

Subject: Arts and Humanities or Elective

PREREQUISITE: French I

This course is NCAA approved.

French II continues to build on the students' oral, listening, reading and writing skills in the French language. Students work to develop conversational and reading proficiency, as well as appropriate grammar usage. Additional cultural facts and subjects providing additional vocabulary are included to broaden the students' competence.

FRENCH III- COURSE NUMBER: 633 (Grades: 11-12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Business, Finance, & Information
Technology, Health and Human Services**

Subject: Arts and Humanities or Elective

PREREQUISITE: French I and II

This course is NCAA approved.

French III reviews, applies and builds on the knowledge and skills gained in French I and II. Students work to express themselves appropriately in both spoken and written language.

FRENCH IV- COURSE NUMBER: 634 (Grades: 12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Business, Finance, & Information
Technology, Health and Human Services**

Subject: Arts and Humanities or Elective

PREREQUISITE: French I, II and III

This course is NCAA approved.

French IV is open to students who have successfully completed French I through III and have a strong foundation in the language and cultural aspects of French-speaking regions around the world. Students will be able to communicate in various tenses about a wide variety of subjects. Independent work and research may be included.

FINE ARTS

ART- COURSE NUMBER: 761 (Grades: 9-12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology,
Business, Finance, & Information Technology, Health & Human
Services**

Subject: Arts and Humanities or Elective

This course is designed for students interested in all phases of art. This year-long course covers the major areas of art. These include drawing, painting, pottery, crafts, etc. It will help prepare students who have talent and a desire to extend their development in the many areas of art. The course is designed to give basic knowledge and skill in all media to strengthen creative abilities.

THREE-DIMENSIONAL DESIGN - COURSE NUMBER: 769 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology

Subject: Arts and Humanities or Elective

This course gives students an opportunity to explore various types of media areas within three-dimensional design. The emphasis of this course is to expose students to a variety of three-dimensional art mediums and build creative skills through the elements of art and the principles of design. The projects may include but are not limited to: ceramics, cardboard greetings, soap carving, and recycled art.

CRAFTS -COURSE NUMBER: 764 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology, Health & Human Services

Subject: Arts and Humanities or Elective

This course is designed for those students who like to work with their hands. Various experiences include jewelry, enameling, batik, macramé and leather. Students will learn the techniques necessary to complete each of the various projects.

DRAWING AND PAINTING- COURSE NUMBER: 765 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology, Health & Human Services

Subject: Arts and Humanities or Elective

This course offers a wide variety of drawing and painting experiences for the beginning students as well as the advanced artist. Drawing experiences include contour (blind and controlled), gesture, and modeling, drawing from the model, portraits, still life, etc. Painting experiences will include acrylic painting, watercolor and tempera.

ADVANCED ART-COURSE NUMBER: 762 (Grades: 10-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology

Subject: Arts and Humanities or Elective

Students will continue their art studies and develop their artist skills in this advanced course. The coursework will focus on major areas of art and build upon coursework from Art (761). It will focus on advanced knowledge and skill in all media to strengthen creative abilities.

DIGITAL ART- COURSE NUMBER: 766 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology, Health & Human Services

Subject: Arts and Humanities or Elective

Students will explore art from a digital perspective with modern and basic technologies. Students will learn to create art on new platforms and utilize a variety of media such as iPads, Chromebooks, Projectors, Digital Cameras, and Drawing tablets compatible with Chromebook.

ADVANCED 3D PRINTING & DESIGN- COURSE NUMBER: 767 (Grades: 11-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology

Subject: Arts and Humanities or Elective

This class will teach students how to utilize the design and production process while creating their own projects. Students will learn that projects must have a functionality and aesthetic-based criteria that needs to be considered. Student projects will be specially designed to meet the needs of the design, the consumer, or the community.

SPECIAL PROJECTS- COURSE NUMBER: 768 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology, Health & Human Services

Subject: Arts and Humanities or Elective

Prerequisite: Completion of Sr. High Art or Drawing & Painting AND Art teacher's approval. Students will continue their art studies and develop their artistic skills in this advanced course. The coursework will focus on spatial art as a human need within a school, local community, and greater community. Students will create art responding to human needs through life experiences within images, structures, and tactile works. It will encompass skills acquired in Drawing & Painting and continue to build upon and further hone those skills. Students will create art for their school through murals, displays, and special projects. Students will create art for the community at a local, statewide, and national level.

PIANO-COURSE NUMBER: 770 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Business, Finance, & Information Technology, Health & Human Services

Subject: Arts and Humanities or Elective

Piano students are given individualized instruction based on their ability level. Students also study basic music theory, including scale and chord construction, key signatures and rhythm.

MUSIC APPRECIATION-COURSE NUMBER: 771 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Arts & Communications

Subject: Arts and Humanities or Elective

Students will explore many different aspects of music. Students will be able to gain an understanding of music from different cultures. Students will also learn many different genres of music, music technologies and time periods of music.

GUITAR - COURSE NUMBER: 773 (Grades: 9-12) CREDIT: .50

**Career Pathway(s): Art & Communications, Business, Finance, & Information
Technology, Health & Human Services**

Subject: Arts and Humanities or Elective

Students learn basic skills on guitar, including playing chords and strumming techniques, reading first position notes and constructing simple bass lines. After learning these components individually, students have the opportunity to play in ensembles.

MUSIC HISTORY-COURSE NUMBER: 780 (Grades: 11-12) CREDIT: .50

**Career Pathway(s): Art & Communications, Business, Finance, & Information
Technology, Health & Human Services**

Subject: Arts and Humanities or Elective

This course covers content and material that focuses on music from a multicultural perspective, taking a look at music from around the world. It will also cover the history of music through the various musical periods, composers and the influence that composers had on the time periods.

MUSIC THEORY- COURSE NUMBER: 781 (Grades: 11-12) CREDIT: .50

**Career Pathway(s): Arts & Communications
Subject: Arts and Humanities or Elective**

The study of music theory and basic composition will be addressed.

PERFORMING ENSEMBLES-COURSE NUMBER: 785 (Grades: 9-12) CREDIT: 1.00

**Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology,
Business, Finance, & Information Technology, Health & Human
Services**

Subject: Arts and Humanities or Elective

Performing Ensembles is for ninth to twelfth grade students interested in singing or playing an instrument in Choir, Concert Band, Jazz Band or apPLause. The Concert Band is a group of wind and percussion instrumentalists that are dedicated to enhancing understanding of the elements of music and playing quality band music in an ensemble setting. Jazz Band is open to anyone interested in playing swing, jazz, fusion, Latin or Blues music. Choir is open to students dedicated to the study and performance of choral literature. This ensemble performs all types of music: pop, classical, gospel, etc. Students may audition for apPLause, a select vocal ensemble that performs primarily a cappella choir selections and often sings for community events. Students may elect to participate in all four aspects of Performing Ensembles or certain parts of the four aspects. Students will be expected to engage in alternate musical activities, such as music theory activities, to make up full-credit work if they are not involved in all four components of this class.

CAREER & TECHNICAL / BUSINESS & FAMILY CONSUMER SCIENCES

VOCATIONAL AGRICULTURE PROGRAM- COURSE NUMBER: 801 (Grades: 10-12) CREDIT: 3.00

Career Pathway(s): Health & Human Services, Engineering Science & Industrial,
Business, Finance, & Information Technology

Subject: Elective

Students attend a neighboring school for this program.

COMPUTER APPLICATIONS- COURSE NUMBER: 832 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology,
Business, Finance, & Information Technology, Health & Human
Services

Subject: Arts and Humanities or Elective

Students will gain a fundamental understanding of computers. The course familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, presentation software, the internet), and the social and ethical aspects of the impact of computers on society.

ADVANCED COMPUTER APPLICATIONS-COURSE NUMBER: 833 (Grades: 10-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology,
Business, Finance, & Information Technology, Health & Human
Services

Subject: Arts and Humanities or Elective

PREREQUISITE: Successful completion of Microcomputer Applications

This course will provide students with a brief review of concepts learned in Microcomputer Applications and then further expand those skills using Microsoft Office, Google Applications and Online Applications. This course will also introduce Database Applications, Coding, Computer Hardware and Computer Networking.

CAREER ESSENTIALS & FINANCIAL PLANNING-COURSE NUMBER: 835 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology,
Business, Finance, & Information Technology, Health & Human
Services

Subject: Arts and Humanities or Elective

This course will provide students with an opportunity to research, prepare and plan for a future beyond high school. The curriculum will cover employee/employer relationships, preparing for a job search, the interview process and building success. We will also discuss financial planning.

ACCOUNTING I- COURSE NUMBER: 838 (Grades: 9-12) CREDIT: 1.00**Career Pathway(s): Business, Finance, & Information Technology****Subject: Elective**

Accounting provides a sound basis for managing personal finances. Accounting I presents an introduction to basic accounting. Students will be introduced to accounting concepts, principles, cycles and equations. Accounting I provides the skills, knowledge and attitudes necessary for individuals to conduct personal business or to further their education in the field of accounting.

ACCOUNTING II- COURSE NUMBER: 839 (Grades: 10-12) CREDIT: .50**Career Pathway(s): Business, Finance, & Information Technology****Subject: Elective****PREREQUISITE:** Accounting I

Accounting II is designed for students interested in pursuing the study of accounting at the post-secondary level or seeking a beginning position upon graduation from high school. The course provides the student with an opportunity for review and further develops the basic fundamental accounting principles used in accounting systems and methods commonly found in business as well as college or vocational courses.

INTRO TO BUSINESS- COURSE NUMBER: 843 (Grades: 9-12) CREDIT: .50**Career Pathway(s): Business, Finance, & Information Technology****Subject: Elective**

This course introduces students to varied areas of business. Accounting, finance, business math, banking, the business community in general, economics and insurance will be explored. Speakers from the business community will be invited to share information pertaining to current business issues. Students will gain skill, knowledge and attitudes necessary to make good business decisions and serve as a foundation for further education.

DIGITAL MEDIA PRODUCTION-COURSE NUMBER: 845 (Grades: 9-12) CREDIT: .50**Career Pathway(s): Arts & Communication, Business, Finance, & Information Technology, Engineering Sciences & Industrial Technology****Subject: Elective**

Students will become acquainted with graphic design techniques, principles of page layout and design, desktop publishing terminology and applications using selected software. Desktop publishing will assist students in the production of professional publications. This course will also utilize available computer software and other technology to produce multimedia presentations. Reports, advertisements, proposals, programs and presentations will be made.

NUTRITION AND FOOD SCIENCE -COURSE NUMBER: 820 (Grades: 9-12) CREDIT: 1.00**Career Pathway(s): Engineering Sciences & Industrial Technology, Health & Human Services****Subject: Elective**

Food science is an interdisciplinary subject that is defined as the science of production, processing, preparation, evaluation and utilization of food. Nutrition is the scientific understanding of how food is used by the body. Students in this course will apply the scientific

methods to cooking laboratory experiments and examine their own eating habits as well as design nutrition materials to educate the school community on healthy eating patterns.

FAMILY AND CONSUMER SCIENCES EXPLORATION- COURSE NUMBER: 822 (Grades: 11-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology, Health & Human Services

Subject: Elective

Students will explore the four academic areas of Family and Consumer Sciences: Child Development, Balancing Family, Work, and Community Responsibilities, Resource Management and Food Science & Nutrition. Course activities will enable students to meet the Pennsylvania Academic Standards for Family and Consumer Sciences and will introduce them to further areas of study within the field.

COOKING STRATEGIES- COURSE NUMBER: 823 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology, Health & Human Services

Subject: Elective

Cooking Strategies is a semester course designed to teach the skills required to cook for everyday living. In addition to kitchen safety, terminology, proper technique and food preparation methods, students will also study ways to use technology to improve work for today's family. Students will learn how to prevent food borne illness, use equipment correctly and safely, and measure and convert measurements accurately.

COOKING FOR SPECIAL OCCASIONS- COURSE NUMBER: 824 (Grades: 9-12) CREDIT: .50

Career Pathway(s): Health & Human Services

Subject: Elective

Cooking for Special Occasions is a semester course designed to teach the skills required to cook for family life and special occasions. In addition to applying kitchen safety, terminology, measurement, proper technique and food preparation methods, students will also study cultural food traditions and learn culinary skills.

INDIANA COUNTY TECHNOLOGY CENTER- COURSE NUMBER: 860 (Grades: 10-12) CREDIT: 3.00

Students attend ICTC in Indiana.

GENERAL STUDIES

CRITICAL AND CREATIVE THINKING- COURSE NUMBER: 901 (Grades: 9-12) CREDIT: .50
Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology,

Business, Finance, & Information Technology, Health & Human Services

Subject: Elective

In this course, students will learn how to think both creatively (fluency, flexibility, originality, elaborating, and visualizing) through various activities and projects, and critically (identifying and evaluating evidence to guide decision making). The majority of the curriculum for this course will come from the book, *James Madison Critical Thinking Course*. This book will help students: recognize ambiguity and lack of clarity in claims, distinguish between arguments and explanations; distinguish premises and conclusions in arguments; distinguish deductive and inductive arguments; evaluate deductive arguments as valid or invalid; evaluate specific reasons that make an inductive argument stronger or weaker; and evaluate common fallacies in reasoning.

Skills for Success I-VI- COURSE NUMBER: 902 (Grades: 9-12) Non-Credit Course

Career Pathway(s): Art & Communications, Engineering Science & Industrial Technology, Business, Finance, & Information Technology, Health & Human Services

Subject: Non-Credit

Skills for Success is for students in Grades 7-12. In this course, students will learn the importance of Life Ready Skills. Students will examine the 7 Habits of Highly Effective Teens: be proactive, begin with the end in mind, put first things first, think win-win, seek first to understand, and then to be understood, synergize, and sharpen the saw along with self-awareness, self-management, growth mindset, self-efficacy and social awareness. Throughout the course, students will develop their own understanding of each of these competencies, and then apply this knowledge by setting personal goals, monitoring those goals, and reevaluating their goals throughout the year.

HEALTH & PHYSICAL EDUCATION

PERSONAL HEALTH AND WELLNESS- COURSE NUMBER: 920 (Grades: 9-12) CREDIT: .50

Career Pathway(s): All

Subject: Health

The health course at the senior high level is an extensive study in personal health problems. A wide range of subject matter is studied. Students are prepared for quality living now as well as in the future. Subject matter deals with the immediate concerns of the adolescent and at the same time, lays the foundation for wise health decisions in the future. Major topics of study include: emotional stress, fitness and nutrition, sexuality, alcohol and drug abuse, chronic and infectious disease and first aid. Instruction will include hands-only CPR as well as the use of the Automated External Defibrillator.

PHYSICAL EDUCATION 9- COURSE NUMBER: 921 (Grades: 9) CREDIT: .25

Career Pathway(s): All

Subject: Physical Education

This course focuses on fitness, strength training, physical conditioning, and concepts, activities, and knowledge that promote lifelong health and wellness. The course is structured to develop students' understanding of weight training and physical conditioning for the beginning and advanced athlete.

INDIVIDUAL/DUAL SPORTS- COURSE NUMBER: 935 (Grades: 9-12) CREDIT: .50

Career Pathway(s): All

Subject: Physical Education

Students will learn a variety of rules, skills, fundamentals, and strategies in multiple individual or dual sports. Activities may include but are not limited to: badminton, pickleball, golf, tennis, ping pong, and other individual/dual sports. P.E. curriculum mandated physical fitness tests will be administered in pre- and post-test form.

TEAM SPORTS- COURSE NUMBER: 936 (Grades: 9-12) CREDIT: .50

Career Pathway(s): All

Subject: Physical Education

Students will learn a variety of rules, skills, fundamentals, and strategies in multiple team sports/activities. Safety and sportsmanship will be emphasized. Activities may include but are not limited to: basketball, volleyball, soccer, flag football, lacrosse, floor hockey, softball, and other team sports. P.E. curriculum mandated by physical fitness tests will be administered in pre- and post-test form.

LIFETIME ACTIVITIES- COURSE NUMBER: 937 (Grades: 9-12) CREDIT: .50

Career Pathway(s): All

Subject: Physical Education

PREREQUISITE: Successful completion of either 935 or 936

Students will be focusing on improving and maintaining great physical health. This course focuses on lifetime fitness and physical activity. Students will understand the benefits that regular exercise can provide for a person's mental, physical, and social health. Activities may include but are not limited to: yoga, dance, walking/jogging, bocce, cornhole, golf, horseshoes, bowling, etc.

STRENGTH AND CONDITIONING- COURSE NUMBER: 938 (Grades: 10-12) CREDIT: .50

Career Pathway(s): All

Subject: Physical Education

PREREQUISITE: Successful completion of 935 or 936

Students will learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning. The five components of physical fitness: cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition will be emphasized.

STRENGTH AND CONDITIONING- COURSE NUMBER: 939 (Grades: 9) CREDIT: .25

Career Pathway(s): All

Subject: Elective

Students will learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning. The five components of physical fitness: cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition will be emphasized.

LIFETIME ACTIVITIES- COURSE NUMBER: 940 (Grades: 9-12) CREDIT: .25

Career Pathway(s): All

Subject: Physical Education

Students will be focusing on improving and maintaining great physical health. This course focuses on lifetime fitness and physical activity. Students will understand the benefits that regular exercise can provide for a person's mental, physical, and social health. Activities may include but are not limited to: yoga, dance, walking/jogging, bocce, cornhole, golf, horseshoes, bowling, etc.

FITNESS & WELLNESS- COURSE NUMBER: 006(Grades: 7-Graduation) CREDIT: 1.00

Career Pathway(s): All

Subject: Physical Education

This course provides opportunities for physical activities and social skills development in a physical education setting. The course is primarily for students who have impairments that prevent them from participating in a traditional physical education course.