

SENIOR HIGH CURRICULUM & CAREER PATHWAYS GUIDE 2022-2023 School Year

Iroquois School District
Iroquois High School
4301 Main Street
Erie, PA 16511

Dear Student and Parent,

It is the goal of the Iroquois School District to prepare our students for their future successes. The information contained in this publication is to help our students plan for the college or career path of their choosing. This guide has been developed in conjunction with the administration, the school counselors, and teachers in order to create a viable index that will assist students to begin scheduling courses that will prepare them beyond graduation.

Considerations for scheduling choices:

- ASVAB results
- Attendance
- Career interests
- CDT results
- Course credits
- Course requirements and prerequisites
- District assessment results
- District graduation requirements
- Individual educational goals
- Keystone scores
- NOCTI scores
- Post-secondary education
- Previous academic results
- PSSA scores
- Teacher/Counselor recommendations
- Vocational participation
- WIN system

While this is a comprehensive guide, the school recommends that parents and students review all scheduling choices based upon the post-secondary goals of the student. The school counselors and teachers will periodically discuss options and opportunities for students. Student requests will dictate the availability of courses offered in the academic schedule. Please be aware that not all students will receive all of the courses that they request.

For concerns or questions, please contact the building administration or counseling office at 814-899-7643.

Not all courses in this guide will be offered this school year. Courses not listed in this guide may be developed after this publication and will be made available to the public.

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GRADUATION REQUIREMENTS

ACADEMIC AREAS	REQUIRED CREDITS	
Math	4 Credits	
English	4 Credits	
Science	4 Credits	
Social Studies	4 Credits	
Health / PE	1 Credit	
Primary Pathway Electives	4 Credits	
Secondary Pathway Electives	3 Credits	
Total	24 Credits	

COMMENCEMENT & DIPLOMA REQUIREMENTS

Students must meet **every** graduation requirement in order to participate in the Commencement exercises, as well as a successful completion of Keystone testing, and/or a local assessment, and/or remediation are required in order to receive a diploma.

SCHEDULING GUIDELINES

- 1. There are no elective scheduled study halls.
- 2. Course sequences in all curricular areas must be followed.
- 3. Courses with fewer than 10 students may not be conducted.
- 4. AP, Honors, and Dual Enrollment classes carry a "weighted" grade.
- 5. Schedules are finalized when school starts or when a student enters school for the year.
- 6. Student requested schedule changes are not permitted after the first 5 days of the school year.
- 7. All students should take two years of a foreign language, starting with Spanish I or French I in Grade 9.
- 8. Successful completion of preceding course sequence and/or prerequisite courses is required to progress.
- The school counselors and administration on a case-by-case basis will review program of study changes.
- 10. Many courses can be used as an elective after the required courses/sequences are completed.
- 11. Core courses, pathways and levels are assigned via staff and administrative review of student achievement data (Math, Science, English and Social Studies).
- 12. Most students are scheduled into physical education class each year.

GRADING SCALE

Α	93-100
В	85-92
С	77-84
D	70-76
F	0-69

RECOMMENDED COURSES

9 th GRADE		10 th GRADE			
 + English 9 or Read 180 Algebra I + Geography & Economics General Science Physical Education Computer Applications * Foreign Language I Career Pathway Electives Total 	1.00 Credit 1.00 1.00 1.00 0.50 0.50 1.00 1.00 7.00 Credits	+ English 10 Geometry + World History II Biology I Physical Education Research & Career Exp. * Foreign Language II Career Pathway Electives Total	1.00 1.00 1.00 1.50 0.50 0.50 1.00 0.50 7.00	Credit	
11 th GRADE	7.00 Ground	12 th GRADE	7.00	Cround	
 + English 11 Algebra II + US History Chemistry Health Personal Finance 	1.00 Credit 1.00 1.00 1.50 0.50 0.50	+ English 12 Trigonometry + American Government Physics Career Pathway Electives Total	1.00 1.00 1.00 1.00 3.00 7.00	Credit	
* Foreign Language I Career Pathway Electives Total	1.00 0.50 7.00 Credits				

The above-mentioned schedules are a suggested schedule of courses. Other remedial, special education, accelerated, or AP level courses could be substituted.

Students will be required to take five credits of electives from their primary career pathway and three credits from their secondary career pathway. Pathways can be flexible from year to year based on student career plans. Taking elective classes from other pathways is permitted with a recommendation from a principal or guidance counselor.

- + Honor/Weighted courses available in these subject areas.
- * Two or three years of a foreign language are recommended for learners applying to a four-year college or university. Foreign language requirements vary upon institution.

CAREER PATHWAYS

What are Career Pathways?

Each Pathway is a broad grouping of careers that share similar characteristics and whose employment requirements call for many common interests, strengths and competencies. A chosen Pathway focuses a student's elective courses toward preparing for a specific goal area.

Why should I choose a career pathway?

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

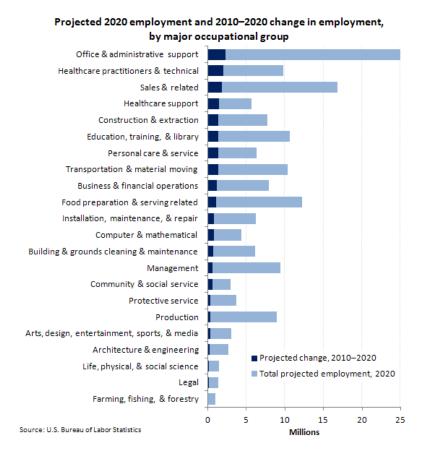
CAREER PATHWAYS Link your Know Your Major and Your Career Values CAREER Research Learn Career About **PLANNING Options** Yourself Identify Identify Your Your Skills Interests

How do I choose a career pathway?

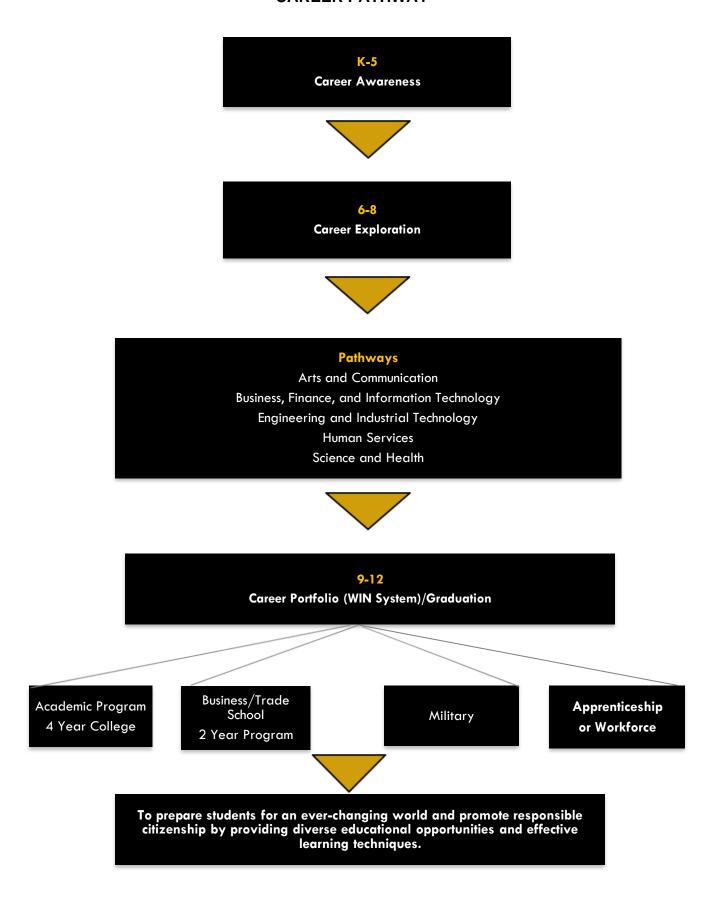
- You will research various career fields in middle school and designated career development activities
- Your counselors, parents and teachers can assist you with this choice.
- You can complete the self-assessment in the Career Planning Guide

Employment Projections by Occupational Group, 2010–2020

From 2010 to 2020, the U.S. economy is projected to add 20.5 million new jobs. Office and administrative support occupations is the occupational group projected to add the newest jobs.



IROQUOIS SCHOOL DISTRICT CAREER PATHWAY



HOLLAND TYPE AND PATHWAY MATCHES

<u>STEP ONE</u>: In each group "X" all of the items that describe you. Then, count up the number of "X" marks and fill in the total for each chart. Be as honest as you can. There are no wrong answers.

Are You?	Can You?		e To?
Practical	Fix mechanical things		Tinker with mechanics
Athletic	Solve mechanical problems		Work outdoors
Straightforward	Play a sport		Be physically active
Mechanically inclined	Read a blueprint		Use your hands
A nature lover	Work on cars		Build things
71110101010101	Trom on our		Operate tools and machinery
		R	TOTAL=
Are You?	Can You?	l ik	e To?
Inquisitive	Think abstractly		Explore ideas
Analytical	Solve math problems		Use computers
Scientific	Understand physical theories		Work independently
Observant	Do complex calculation		Perform lab experiments
Precise	Use a microscope		Read science magazines
1 100000	Analyze data		rtead science magazines
	/ maryzo data	1	TOTAL =
Are You?	Can You?	l ik	e To?
Creative	Sketch, draw, paint	LIK	Attend concerts, theater, art
Creative	Sketch, draw, paint		shows
Intuitive	Play a musical instrument		Read fiction, plays, poetry
Imaginative	Write stories. Poetry, music		Work independently
Observant	Do complex calculations		Work independently Work on crafts
Innovative	Design fashions or interiors		Take photographs
An individualist	Sing, act, dance		Express yourself creatively
All illuividualist	Ollig, act, darioe	Α	TOTAL =
Are You?	Can You?		e To?
Friendly	Teach/train others		Work in groups
Helpful	Express yourself clearly		Help people with problems
Idealistic	Lead a group discussion		Participate in meetings
Insightful	Moderate disputes		Do volunteer service
Outgoing	Plan and supervise and activity		Work with young people
Understanding	Cooperate well with others		Play team sports
Onderstanding	Gooperate well with others	S	TOTAL =
Are You?	Can You?		e To?
Self-confident	Initiate projects		Make decisions affecting others
Assertive	Convince people of your ideas		Be elected to office
Sociable	Sell or promote things		Lead people
Persuasive	Give talks or speeches		Start a project or cause
Enthusiastic	Arrange activities and events		Meet important people
Energetic	Lead a group		most important poopio
Lifeigotto	2000 a group	E	TOTAL =
Are You?	Can You?		e To?
Well groomed	Work well within a system		Follow clear procedures
Accurate	Complete paperwork		Use data processing equipment
Numerically inclined	Keep accurate records		Work with numbers
Methodical	Use a computer		Type or word process
Conscientious	Write effective letters		Be responsive for details
Efficient	Title chocare leading		20 . coponento for detaile
	· '	С	TOTAL =
		-	· - · · · -

R = Realistic

Investigate

A = Artistic

S = Social

E = Enterprising

C = Conventional

Holland Type and Pathway Matches (Continued)

<u>STEP TWO</u>: After completing the Holland Type and Pathway Matches on page 8, use your totals to identify the three letters that have the highest scores. Record the letter and number of "**X**" s in the box below.

My interest codes are:

1.	2.	3.
#	#	#

<u>STEP THREE</u>: Now, we will match your Holland Interest Type with Career Pathways. In the columns below, circle your three interest code letters wherever they appear.

Interest Codes:Pathway:A C S EArts and Communications (AC)R I S E CBusiness, Finance and Information Technology (BFIT)R IEngineering and Industrial Technology (EIT)S A E CHuman Services (HS)R I SScience and Health (SH)

STEP FOUR: Count the number of circles in each Pathway to determine your Primary and Secondary Pathways.

Primary Pathway _______ (having the greatest number of circles)

Secondary Pathway ______ (having the second greatest number of circles)

In the case of a tie, go back and review the assessment for more indicating factors or contact your school counselor for assistance.

Note: This tool, as well as a series of other types, will be used to assist students and parents in the selection process. As always, this is an ongoing process and subject to change.

THE 5 PATHWAY OPTIONS

Arts and Communications (AC)

Designed to cultivate students' awareness, interpretation, application and production of visual, verbal and written work.

Career cluster areas:

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

Business, Finance, and Information Technology (BFIT)

Designed to prepare students for careers in the world of business, finance and information services.

Career cluster areas:

- Business Management
- Entrepreneurship
- Finance
- Information Technology
- · Marketing, Sales, and Services

Engineering and Industrial Technology (EIT)

Designed to cultivate students' interest, awareness and application to areas related to technologies necessary to design, develop, install or maintain physical systems.

Career cluster areas:

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

Human Services (HS)

Designed to cultivate students' interests, skills and experience for employment in careers related to families and human needs.

Career cluster areas:

- Community Service
- Counseling and Personal Care
- Education
- · Hospitality and Tourism
- Law, Public Safety, and Government
- Leadership
- ROTC

Science and Health (SH)

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

Career cluster areas:

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

The Iroquois School District promotes well-rounded learners. When scheduling, students will be asked to designate one of the five pathways starting in ninth grade. This is done to help plan the appropriate college or career plan and to maximize each student's schedule. Students will be permitted to change their choice from year to year.

There are five distinct pathways outlined in this guide to help students plan for their future and to tailor their schedule to provide the best possible educational sequence. However, students can pick electives from other pathways to meet their personal interests.

Arts and Communications (AC) Pathway

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

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

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

SAMPLE CAREERS

Entry	Technical/Skilled	Professional (4+ college)
 Announcer Copy Person Dancer Desktop Publisher Film Loader Florist Floral Designer Model Newsroom Worker Photographer Radio Operator Sound Technician Stage Hand Stunt Performer TV, video, and movies 	 Actor Animator Artist Broadway Technician Computer Graphic Artist Choreographer Dancer Desktop Publisher Disc Jockey Fashion Designer Illustrator Jeweler Make-up Artist Musician Recording Engineer Video Manager Web Designer 	 Art and Music Teacher Art Director Advertising Creator Cinematographer Composer Curator Copy Writer Editor Fashion Designer Film Editor Interior Designer Industrial Designer Multi-media Artist Music Critic Music Director News Broadcaster News Writer Producer and Director Telecommunications Writer

Arts and Communications (AC) Pathway

Subject	Grade 9	Grade 10	Grade 11	Grade 12
English	English 9	English 10	English 11	English 12
3	English 9 Honors*	English 10 Honors*	English 11 Honors*	English 12 Honors*
	Read 180		AP Literature*	AP Literature*
	Ticad 100		AP English Language*	AP English Language*
Science	General Science	Biology	Physics	Physics
Science	Biology 9 with lab	Chemistry	Chemistry with lab	Physical Science
	Biology 5 With lab	Chemistry Honors* with lab	Applied Chemistry	Environmental Science
		V.T. Biology	AP Chemistry* with lab	Applied Chemistry
		v.i. biology	CHS Biology	AP Chemistry* with lab
			Biology Remediation	AP Physics* with lab
			Biology Remediation	
Casial Ottodias	C	Mandal Hatam	Amariaan History	CHS Biology American History
Social Studies	Geography/Economic	World History	American History	
	Geography/Economic	World History Honors*	AP Government & Politics*	AP Government & Politics*
	Honors*		AP U.S. History*	
		1	AP American History*	AP American History*
Math	Algebra A	Algebra B	Geometry	Algebra II
	Algebra B	Geometry	Algebra II	AP Stats*
	Algebra I	Algebra II	Trigonometry	Trigonometry
	Geometry 9	Trigonometry	Intro to Probability & Stats	Calculus Honors*
			Calculus Honors*	AP Calculus*
				Intro to Probability & Stats
				Consumer Math
Required	Computer Applications	Research & Career	Personal Finance	
Elective Health/PE	Dhysical Education C	Exploration	Health 11	
IEA	Physical Education 9			
		Pathway Elec		
	Art Electives	Art Electives	Art Electives	Art Electives
	Art 1	Art I Art 2	Art 1 Art 2	Art 1 Art 2
	Fam. Cons. Science Electives	Art 3	Art 3	Art 3
	Family Cons. Science	Ceramics	Ceramics	Ceramics
		Digital Art & Photography	Digital Art & Photography	Digital Art & Photography
	French French	Jewelry Making/Practical Mediums	Jewelry Making/Practical Mediums	Jewelry Making/Practical Mediums
	Spanish I	Printmaking Sculpture	Printmaking Sculpture	Printmaking Sculpture
	Music Electives	Family Consumer Science	Business Elective	Business Education Electives
	Concert Choir	Electives	Sports/Entertain/Marketing	Personal Finance II
	March/Concert Band	Family Cons. Sci.	Sperie, Ernertan , manteun g	Sports & Ent. Marketing
		Yearbook I	English Electives	CHS Leadership
	Tech. Education Electives		Creative Writing	_ ,, _, ,,
	C.A.D. I Foundations of Tech	Foreign Language Electives French I, II	Film Study Journalism	English Electives Creative Writing
	l ouridations of recir	Spanish I, II	Public Speaking	Film Study
		Spainsi i, ii	Yearbook I or II	Journalism
		Music Electives		Public Speaking
		Concert Choir	English/Math Elective	Yearbook I, II
		Marching/Conc. Band	SAT Prep. Fundamentals	English/Moth Floative
		Tech. Music Comp. Vocal Ensemble	Family Cons. Science Elective	English/Math Elective SAT Preparatory Fund.
		. Codi Encombio	Family Consumer Science	S. II Toparatory Fund.
		Tech. Education Electives		Family Cons. Science Electives
		C.A.D. I	Foreign Language Electives	Family Cons. Science
		Foundations of Tech Robotics I	French I, II, III, or IV Spanish I, II, III, or IV	Foundations of Tech.
		1.000tics i	Opanion i, ii, iii, Or iv	Foreign Language Electives
		ECTS Programs	Music Electives	French I, II, III, or IV
		Art & Design	Concert Choir	Spanish I, II, III, or IV
		Graphic Communications	Marching & Concert Band	Music Flootius
			Tech. Music Comp. Vocal Ensemble	Music Electives Concert Choir
			VOCAL ETISETTISTE	March/Concert Band
			Social Studies Electives	Tech. Music Comp.
			CHS International Relations*	Vocal Ensemble
			Mass Media & Social Influence	Social Studies Floriture
			Tech. Education Electives	Social Studies Electives CHS International Relations*
			CHS Programming in Python*	Mass Media & Social Influence
			C.A.D. I	
			Foundations of Tech	Tech. Education Electives
			Material Process I	CHS Programming in Python*
			Research & Design Robotics	C.A.D. I Material Process. I
			Adv. Robotics	Robotics I
			7.4 1000000	Adv. Robotics
			ECTS Programs	Research & Design
			Art & Design	5070 0
			Graphic Communication	ECTS Programs Art & Design
				Graphic Comm.
	1			Grapino Comm.

Business, Finance, and Information Technology (BFIT) Pathway

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

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

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

SAMPLE CAREERS

Entry	Technical/Skilled	Professional (4+ college)
 Account Executive Accounts Payable Manager Administrative Assistant Advertising Sales Agent Bank Teller Cashier Computer Operator Customer Service Data Entry Payroll Clerk Representative Retail Sales Clerk Secretary Shipping and Receiving Clerk Telemarketer Title searcher 	 Bank Collection Officer Claims Adjuster Computer Programmer Computer Salesperson Computer Support Specialist Desktop Publisher Graph Designer Legal Secretary Medial Secretary Paralegal Production Support Analyst Real Estate Agent Restaurant Manager Retail Technician Sales Representative Software Engineer Tax Preparer 	 Actuary Business Analysts Certified Public Accountant Chief Executive Officer E-commerce Analyst Economist Financial Manager Hospital Administrator Human Resources Manager Manufacturing Sales Marketing Manger Project Manager Representative Securities Sales Representative Sports and Entertainment Agent Systems Analysis Systems Software Engineer

Business, Finance, and Information Technology (BFIT) Pathway

Subject	Grade 9	Grade 10	Grade 11	Grade 12
English	English 9	English 10	English 11	English 12
g	English 9 Honors*	English 10 Honors	English 11 Honors*	English 12 Honors*
	Read 180		AP Literature*	AP Literature*
			AP English Language*	AP English Language*
Science	General Science	Biology	Physics	Physics
	Biology 9 with lab	Chemistry	Chemistry with lab	Physical Science
		Chemistry Honors* with lab	Applied Chemistry	Environmental Science
		V.T. Biology	AP Chemistry* with lab	Applied Chemistry
			CHS Biology Biology Remediation	CHS Biology AP Chemistry* with lab
			Biology Remediation	AP Physics* with lab
Social	Geography/Economic	World History	American History	American History
Studies	Geography/Economic	World History Honors*	AP Government & Politics*	AP Govt. & Politics*
	Honors*	,	AP U.S. History*	AP American History*
			AP U.S. American History*	
Math	Algebra A	Algebra B	Geometry	Algebra II
	Algebra B	Geometry	Algebra II	AP Stats*
	Algebra I	Algebra II	Trigonometry	Trigonometry
	Geometry 9	Trigonometry	Intro to Probability & Stats Calculus Honors*	Calculus Honors* AP Calculus*
			Calculus Horiors	Intro to Probability & Stats
				Consumer Math
Required	Computer Applications	Research & Career	Personal Finance	
Elective		Exploration		
Health/PE	Physical Education 9		Health 11	
		Pathway Ele		
	Art Electives	Art Electives	Art Electives	Art Electives
	Art 1	Art I	Art 1	Art 1
	Foreign Lang. Electives	Art 2 Art 3	Art 2 Art 3	Art 2 Art 3
	French I	Alto	Ait 5	AITS
	Spanish I	Business Elective	Business Elective	Business Electives
		Sports/Ent. Marketing	Sports & Ent. Marketing	Comp. Pro. & Coding
	Tech. Ed. Electives		1	Personal Finance II
	C.A.D. I	English Elective	English Electives	Sports & Ent. Marketing
	Comp. Pro. & Coding	Yearbook I	Creative Writing	CHS Leadership
	Foundations of Tech	Foreign Long Floatives	Journalism	Frantish Flactives
		Foreign Lang. Electives French I, II	Public Speaking Yearbook I or II	English Electives Creative Writing
		Spanish I, II	T CAL DOOK T OF IT	Journalism
		Spanner I, II	English/Math Elective	Public Speaking
		Music Electives	SAT Prep. Fundamentals	Yearbook I, II
		Tech. Music Comp.		
			Foreign Lang. Electives	English/Math Elective
		<u>Tech. Education Electives</u>	French I, II, III, or IV	SAT Preparatory Fund.
		C.A.D. I	Spanish I, II, III, or IV	Foreign Lang Floatives
		Foundations of Tech Comp. Prog. & Coding	Music Elective	Foreign Lang. Electives French I. II. III. or IV
		Comp. 1 rog. & Coding	Tech. Music Composition	Spanish I, II, III, or IV
		ECTS Programs		
		Computer Networking	Social Studies Electives	Music Electives
		Comp. Programming	AP Psychology *	Tech. Music Comp.
			Psychology	
			Took Education Floatius	Social Studies Electives
			Tech. Education Electives CHS Programming in Python*	AP Psychology* Psychology
			C.A.D. I	1 Sychology
			Computer Program & Coding	Tech. Education Electives
			Enterprise I	CHS Programming in Python*
			Foundations of Tech	C.A.D. I
			Material Process. I	Enterprise I
			Robotics I	Foundations of Tech
			Adv. Robotics	Material Process. I
			ECTS Programs	Robotics I
			Computer Networking	Adv. Robotics
1	1	1		FOTO Due sure mas
			LComputer Programming	LEGIS Programs
			Computer Programming	ECTS Programs Computer Networking
			Computer Programming	Computer Networking Computer Programming

^{*}Students entering this pathway should enroll in Intro to Probability and Statistics.

Engineering and Industrial Technology (EIT) Pathway

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

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

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

SAMPLE CAREERS

Entry	Technical/Skilled	Professional (4+collge)
 Apprenticeships Baggage Handler Brick Mason Carpenter Carpet Installer Diesel Mechanic Dock Worker Drywall Worker Electrician Freight Handler HVAC Industrial Machine Mechanic Laborer Machine Operator Machinist Plumber Surveyor Warehouse Worker 	 Air Traffic Controller Auto Body Repair Auto Mechanic Bus Driver CAD/CAM Technician Civil Engineering Technician Diesel Mechanic Dispatch Electrical Technician Grader and Dozer Operator Laser Technician Metal Engineering Technician Motorcycle Mechanic Robotics Technician Supervisor Taxi Driver Truck Driver Truck Terminal Manager Welder 	 Aeronautical Engineer Airline Pilot Architect Astronaut Chemical Engineer Civil Engineering Construction Manager Cost Estimator Industrial Production Manager Industrial Engineering Mechanical Engineering NASA Scientist Navigator Nuclear Engineer Petroleum Engineer Purchasing Agent Technical Writer Transportation Engineer

Engineering and Industrial Technology (EIT) Pathway

Subject	Grade 9	Grade 10	Grade 11	Grade 12
English	English 9	English 10	English 11	English 12
g	English 9 Honors*	English 10 Honors*	English 11 Honors*	English 12 Honors*
	Read 180	, and the second	AP Literature*	AP Literature*
			AP English Language*	AP English Language*
Science	General Science	Biology	Physics	Physics
	Biology 9 with lab	Chemistry	Chemistry with lab	Physical Science
		Chemistry Honors* with lab	Applied Chemistry	Environmental Science
		V.T. Biology	AP Chemistry* with lab CHS Biology	Applied Chemistry CHS Biology
			Biology Remediation	AP Chemistry* with lab
			Blology Remediation	AP Physics* with lab
Social	Geography/Economic	World History	American History	American History
Studies	Geography/Economic	World History Honors*	AP Government & Politics*	AP Govt & Politics*
	Honors*		AP U.S. History*	AP American History*
		_	AP American History*	
Math	Algebra A	Algebra B	Geometry	Algebra II
	Algebra B	Geometry	Algebra II	AP Stats*
	Algebra I Geometry 9	Algebra II Trigonometry	Trigonometry Intro to Probability & Stats	Trigonometry Calculus Honors*
	Geometry 5	Trigonometry	Calculus Honors*	AP Calculus *
				Intro to Probability & Stats
				Consumer Math
Required	Computer Applications	Research & Career Exploration	Personal Finance	
Elective	Dharias I Education 0		1110-44	
Health/PE	Physical Education 9	Dothwest Floati	Health 11	
		Pathway Electi		
	<u>Art Elective</u>	<u>Art Electives</u>	Art Electives	Art Electives
	Art 1	Art I	Art 1	Art 1
	Favaious I amangana Flantings	Art 2	Art 2	Art 2
	Foreign Language Electives	Art 3	Art 3	Art 3
	French I Spanish I	Digital Art & Photography	Digital Art & Photography	Digital Art & Photography
	opamon i	Foreign Language Electives	English/Math Elective	Business Elective
	Tech. Education Electives	French I, II	SAT Prep. Fundamentals	Personal Finance II
	C.A.D. I	Spanish I, II	·	CHS Leadership
	Comp. Pro. & Coding		Foreign Language Electives	·
	Foundations of Tech	Tech. Education Electives	French I, II, III, or IV	English/Math Elective
		C.A.D. I	Spanish I, II, III, or IV	SAT Preparatory Fund.
		Comp. Aided Manufact.		
		Comp. Prog. & Coding	Tech. Education Electives	Foreign Language
		General Rep. & Main.	CHS Programming in Python*	<u>Electives</u>
		Foundations of Tech	C.A.D. I	French I, II, III, or IV
		Intro to Engineering Material Processing I	Computer Aided Manufact. Computer Program & Coding	Spanish I, II, III, or IV
		Robotics I	Enterprise I	Tech. Education Electives
		Trobotios i	Foundations of Tech	CHS Programming in
		ECTS Programs	General Repair & Maint.	Python*
		Auto Body Repair	Intro to Engineering	C.A.D. I
		Automotive Tech	Material Process. I	Comp. Aided Manufacturing
		Computer Networking	Research & Design	Comp. Pro. & Coding
		Comp. Programming	Robotics I or Advanced	Enterprise I
		Drafting & Design		Foundations of Tech
		Construction Trades	ECTS Programs	General Rep. & Maint.
		Electrical Engineering	Auto Body Repair	Intro to Engineering
		Facility Maintenance	Automotive Technologies	Material Process. I
		Metal Fabrication Precision Machining	Computer Networking Computer Programming	Robotics I Adv. Robotics
		i recision machining	Computer Programming Construction Trades	Auv. Nobolics
			Drafting & Design	ECTS Programs
			Electrical Engineering	Auto Body Repair
			Facility Maintenance Tech	Automotive Technology
			Metal Fabrication	Computer Networking
			Precision Machining	Computer Programming
				Construction Trades
				Drafting & Design
				Electrical Engineering
				Facility Maintenance
				Metal Fabrication
				Precision Machining

Human Services (HS) Pathway

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

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

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

SAMPLE CAREERS

Entry	Technical/Skilled	Professional (4+college)
 Aerobics Instructor Baker Child Care Worker Cosmetic Representative Dry Cleaning Operator Home Health Aide Library Assistant Postal Services Worker Security Guard Teacher's Assistant Travel Agent Utility Worker Waitress 	 Barber Chef Cosmetologist Fashion Designer Firefighter Flight Attendant Manicurist Massage Therapist Mortician Personal Trainer Police Officer Postmaster Teacher's Aide Truck Driver 	 Counselor Criminologist Executive Chef FBI Agent Food Services Manger Funeral Director Hotel/Motel Management Lawyer Park Ranger Police Officer Principal Professor Teacher Therapist

Human Services (HS) Pathway

Subject	Grade 9	Grade 10	Grade 11	Grade 12
English	English 9	English 10	English 11	English 12
J	English 9 Honors*	English 10 Honors*	English 11 Honors*	English 12 Honors*
	Read 180		AP Literature*	AP Literature*
			AP English Language*	AP English Language*
Science	General Science	Biology with lab	Physics	Physics
	Biology 9 with lab	Chemistry with lab	Chemistry with lab	Physical Science
		Chemistry Honors* with lab	Applied Chemistry	Environmental Science
		V.T. Biology	AP Chemistry* with lab	Applied Chemistry
			CHS Biology	CHS Biology
			Biology Remediation	AP Chemistry* with lab
				AP Physics* with lab
Social Studies	Geography/Economic	World History	American History	American History
	Geography/Economic	World History Honors*	AP Government & Politics*	AP Government &
	Honors*	, , , , , , , , , , , , , , , , , , , ,	AP U.S. History*	Politics*
			AP American History*	AP American History*
Math	Algebra A	Algebra B	Geometry	Algebra II
	Algebra B	Geometry	Algebra II	AP Stats*
	Algebra I	Algebra II	Trigonometry	Trigonometry
	Geometry 9	Trigonometry	Intro to Probability & Stats	Calculus Honors*
			Calculus Honors*	AP Calculus*
				Intro to Probability & Stats
_				Consumer Math
	e Computer Applications	Research & Career Exploration	Personal Finance	
Health/PE	Physical Education 9		Health 11	
		Pathway Electi		
	AFJROTC	<u>AFJROTC</u>	<u>AFJROTC</u>	AFJROTC
	ROTC	ROTC	ROTC	ROTC
	Art Elective	Art Electives	Art Electives	Art Electives
	Art 1	Art I	Art 1	Art 1
	Family Come Spiemes Floatives	Art 2	Art 2	Art 2 Art 3
	Family Cons. Science Electives Family Cons. Science	Art 3 Jewelry & Pract. Mediums	Art 3	Jewelry & Pract. Mediums
	Foods I		English Electives	,
		Family Consumer Science Electives	Journalism	English Electives
	Foreign Language Electives French I	Child Development Cooking Around World	Public Speaking	Journalism Public Speaking
	Spanish I	Family Cons. Sci.	English/Math Electives	rubiic Speaking
		Foods & Nutrition I, II	SAT Prep	English/Math Elective
	Tech. Education Elective	Foreign Language Electives	Family Consumer Science Electives	SAT Preparatory Fund.
	C.A.D. I	French I, II	Family Consumer Science	Family Cons. Science Electives
		Spanish I, II	Child Development	Child Development
		Took Edwardon Floridas	Cooking Around World	Cooking Around World
		Tech. Education Electives	Foods & Nutrition I, II Living on Your Own	Family Cons. Science Foods & Nutrition I, II
		Robotics I	Living on Your Own	Living on Your Own
			Foreign Language Electives	
		ECTS Programs Cosmetology	French I, II, III, or IV Spanish I, II, III, or IV	French I, II, III, or IV
		Culinary Arts	Spanish I, II, III, Or IV	Spanish I, II, III, or IV
		Early Childhood	P.E. Electives	., .,,
		Health Assistant	Advanced Physical Ed	Health & PE Electives
		Tourism & Hospitality	Aquatics Personal Fitness	Advanced Physical Ed Aquatics
			Team Sports	Personal Fitness
			·	Team Sports
			Science Electives Anatomy & Physiology	Science Electives
			Environmental Science	Anatomy & Physiology
			Forensics	Environmental Sci.
			Social Studios Floritims	Forensics
			Social Studies Electives AP Psychology *	Social Studies Electives
			CHS International Relations*	AP Psychology *
			Ancient Greece	CHS International Relations*
			Criminal Justice Heroes/Villains in History	Ancient Greece Criminal Justice
			Local PA & US Hx	Heroes/Villains in History
			Mass Media & Social Influence	Local PA & US Hx
			Medieval Europe	Mass Media & Social Influence
			Psychology 60's, 70's, 80's	Medieval Europe Psychology
			Sociology	60's, 70's, 80's
			Women's Studies	Sociology
			Tech. Education Electives	Women's Studies
			CHS Programming in Python*	Tech. Education Electives
			C.A.D. I	CHS Programming in Python*
			Enterprise I Research & Design	C.A.D. I Enterprise I
			Robotics I or Adv. Robotics	Personal Finance II
				Research & Design
			ECTS Programs	5070 8
			Cosmetology Culinary Arts	ECTS Programs Cosmetology
			Early Childhood Educ.	Culinary Arts
			Health Assistant	Early Childhood
			Tourism & Hospitality	Health Assistant
	1		1	Tourism & Hosp.

Science and Health (SH) Pathway

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

Are you interested in	Can you	Do you enjoy
 Animals Environment and Conservation Food Production Health Care Environment Information Systems Medical Research Pharmacy Physical Therapy Radiology Science and Medicine Sports and Fitness 	 Apply scientific theory to real life problems Collect and analyze date from experiments Pay attention to detail Use a computer/technology Work in a lab setting or medical facility Work outdoors around animals and plants Work with people in need Work with science and math theories 	 Developing conclusions from a database Diagnosing and caring for sick animals Making a contribution to society Medical lab research Working on cutting edge scientific research Working on a team Working outdoors with wildlife Working with numbers

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

SAMPLE CAREERS

Entry	Technical/Skilled	Professional (4+college)
 Animal Caretaker Breeder Data Entry Dialysis Technician EEG Technician Extension Service Worker Farmer Home Health Aide Hospital Worker Nurse's Aide, Orderlies Optician Patient Care Technician Pharmacy Technician Physical Therapy Aide Wildlife Reserve Worker 	 Certified Nursing Assistant Dental Hygienist Dental Lab Technician Emergency Medical Technician Fish and Game Worker Forest Conversationalist GPS Technician Licensed Practice Nurse Medical Lab Technician Personal Trainer Radiological Technician Respiratory Therapist Surveyor Veterinary Technician 	 Athletic Trainer Chemist Dietician Environmental Scientist Marine Biologist Medical Examiner Nuclear Engineer Pharmacist Physician Physician Assistant Registered Nurse Speech/Language Pathologist Soil Conversationalist Veterinarian Zoologist

Science and Health (SH) Pathway

Subject	Grade 9	Grade 10	Grade 11	Grade 12
English	English 9	English 10	English 11	English 12
g	English 9 Honors*	English 10 Honors*	English 11 Honors*	English 12 Honors*
	Read 180		AP Literature*	AP Literature*
	11000 100		AP English Language*	AP English Language*
Science	General Science	Biology with lab	Physics	Physics
Colonido	Biology 9 with lab	Chemistry with lab	Chemistry with lab	Physical Science
	Blology & Will lab	Chemistry Honors* with lab	Applied Chemistry	Environmental Science
		V.T. Biology	AP Chemistry* with lab	Applied Chemistry
		V.T. Biology	CHS Biology	CHS Biology
			Biology Remediation	AP Chemistry* with lab
				AP Physics* with lab
Social	Geography/Economic	World History	American History	American History
Studies	Geography/Economic	World History Honors*	AP Government & Politics*	AP Govt & Politics*
	Honors*		AP U.S. History*	AP American History*
			AP American History*	
Math	Algebra A	Algebra B	Geometry	Algebra II
	Algebra B	Geometry	Algebra Íl	AP Stats*
	Algebra I	Algebra Íl	Trigonometry	Trigonometry
	Geometry 9	Trigonometry	Intro to Probability & Stats	Calculus Honors*
		,	Calculus Honors*	AP Calculus*
				Intro to Probability & Stats
				Consumer Math
Required	Computer Applications	Research & Career	Personal Finance	
Elective		Exploration		
Health/PE	Physical Education 9		Health 11	
	,	Pathway Electi	VAS	
	Art Elective	Art Electives	Art Electives	Art Electives
	Art 1	Art I	Art 1	Art 1
	Family Consumer Science Electives	Art 2 Art 3	Art 2 Art 3	Art 2 Art 3
	Family Cons. Science			
	Foods I	<u>Family Consumer Science Electives</u> Child Development	Business Elective Sports & Ent. Marketing	Business Elective Sports & Ent. Marketing
	Foreign Language Electives	Cooking Around World	,	,
	French I Spanish I	Family Cons. Science Foods & Nutrition I, II	<u>English Elective</u> Journalism	<u>English Elective</u> Journalism
	Tech. Education Electives	Foreign Language Electives	English/Math Elective	English/Math Elective
	C.A.D. I	French I, II	SAT Prep	SAT Preparatory Fund.
	Comp. Pro. & Coding Foundations of Tech	Spanish I, II	Family Consumer Science Electives	Family Cons. Science Electives
		P.E. Electives	Family Consumer Science	Child Development
		Aquatics Personal Fitness	Child Development Cooking Around World	Cooking Around World Family Cons. Science
		Team Sports	Foods & Nutrition I, II	Foods & Nutrition I, II
		Tech. Education Electives	Foreign Language Electives	Foreign Language Electives
		C.A.D. I	French I, II, III, or IV	French I, II, III, or IV
		Comp. Prog. & Coding Foundations of Tech	Spanish I, II, III, or IV	Spanish I, II, III, or IV
		Material Processing I	P.E. Electives	Health & PE Electives
		Robotics I	Advanced P.E	Advanced P.E.
		ECTS Programs	Aquatics Personal Fitness	Aquatics Personal Fitness
		Computer Networking	Team Sports	Team Sports
		Comp. Programming Early Childhood	Science Electives	Science Electives
		Health Assistant	Anatomy & Physiology	Anatomy & Physiology
			Environmental Science Forensics	Environmental Science Forensics
			AP Psychology *	AP Psychology*
			Criminal Justice	Criminal Justice
			Heroes/Villains in History Psychology	Heroes &Villains Psychology
			60's, 70's & 80's	60s, 70s, 80s
			Tech. Education Electives	Tech. Education Electives
			CHS Programming in Python*	CHS Programming in Python*
			C.A.D. I Computer Program & Coding	C.A.D. I Comp. Pro. & Coding
			Foundations of Tech	Foundations of Tech
			Material Process. I	Material Process. I
			Material Process. I Research & Design Robotics I or Advanced Robotics	Material Process. I Robotics I Adv. Robotics
			Research & Design Robotics I or Advanced Robotics	Robotics I Adv. Robotics
			Research & Design	Robotics I
			Research & Design Robotics I or Advanced Robotics <u>ECTS Programs</u> Computer Networking Computer Programming	Robotics I Adv. Robotics ECTS Programs Computer Networking Computer Programming
			Research & Design Robotics I or Advanced Robotics <u>ECTS Programs</u> Computer Networking	Robotics I Adv. Robotics ECTS Programs Computer Networking

[©] Students entering this pathway should enroll in Anatomy & Physiology along with Advanced Physical Education

AP COURSE OFFERINGS

Earn College Credit and Placement

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

AP Course Planning

Students that wish to take multiple AP courses must plan their course selections carefully. In order to achieve this goal, students will need to schedule multiple core courses in addition to AP courses concurrently, especially during their 11th and 12th grade year. The AP courses are conducted based on student interest.

Students are encouraged to pick a focus area of interest and plan multiple courses as a two-year commitment. For example, if a student excels at science and math, they may want to schedule 1 or 2 AP courses in each of those disciplines each year. Please note that it is highly unlikely a student will be able to schedule all AP course offerings prior to graduation.

Guidelines:

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

AP COURSE OFFERINGS:		
AP Chemistry	AP Literature and Composition	
AP Physics AP Language and Composition		
AP Calculus AP Government		
AP Statistics	AP Psychology	
AP U.S. History		

PROGRAM OF STUDIES

ARTS & HUMANITIES

Art			
Course No.	Subject	Grade	Credit
2598	Life Skills Art	10-11-12	0.00
2061	Art I: Fundamentals of Art	9-10-11-12	0.50
2062	Art II: Advanced Art	10-11-12	1.00
2063	Art III: Masters Art Class	10-11-12	1.00
2064	Sculpture	11-12	0.50
2065	Jewelry Making and Practical Mediums	10-11-12	0.50
2066	Printmaking	10-11-12	0.50
2067	Digital Art & Photography	10-11-12	0.50
2068	Ceramics	10-11-12	0.50

Music			
Course No.	Subject	Grade	Credit
2160	Concert Choir	9-10-11-12	1.00
2162	Marching / Concert Band	9-10-11-12	1.00
2163	Technical Musical Composition	10-11-12	1.00
2164	Vocal Ensemble	10-11-12	1.00
2597	Life Skills Music	10-11-12	0.00

Foreign Lar	guages		
Course No.	Subject	Grade	Credit
2050	Spanish I	9-10-11-12	1.00
2051	Spanish II	10-11-12	1.00
2052	Spanish III	11-12	1.00
2053	Spanish IV	12	1.00
2054	French I	9-10-11-12	1.00
2055	French II	10-11-12	1.00
2056	French III	11-12	1.00
2057	French IV	12	1.00

ENGLISH

Course No.	Subject	Grade	Credit
0900	Read 180	9	1.00
0910	English 9	9	1.00
0911	English 9 Honors* (Weighted Course)	9	1.00
1010	English 10	10	1.00
1011	English 10 Honors* (Weighted Course)	10	1.00
1110	English 11	11	1.00
1111	English 11 Honors* (Weighted Course)	11	1.00
1210	English 12	12	1.00
1211	English 12 Honors* (Weighted Course)	12	1.00
2014	AP English Literature* (Weighted Course)	11-12	1.00
2015	AP English Language* (Weighted Course)	11-12	1.00
* These cou	irses may be substituted for the grade 11 or 12 En	glish credit requirem	nent.

HEALTH & PHYSICAL EDUCATION *

2093 Aquatics 10-12 0.50 2094 Team Sports 10-12 0.50 2095 Personal Fitness 10-12 0.50	Course No. 1190 2090 2092	Subject Health 11 Physical Education 9 Advanced Physical Education	Grade 11 9 11-12	Credit 0.50 0.50 1.00
2000 1 01001141 111000		•		

Students are typically scheduled into Physical Education each year opposite a corresponding grade level cycle course.

MATHEMATICS

Course No.	Subject	Grade	Credit
0920	Algebra A	9	1.00
0921	Geometry 9 th	9	1.00
1220	Consumer Math	12	1.00
2021	Algebra B	9-10	1.00
2022	Algebra I	9-10-11-12	1.00
2023	Algebra II	9-10-11-12	1.00
2024	Geometry	9-10-11	1.00
2025	Intro. Probability & Statistics	10-11-12	1.00
2026	Trigonometry	10-11-12	1.00
2027	Calculus Honors* (Weighted Course)	11-12	1.00
3020	AP Calculus* (Weighted Course)	11-12	1.00
3021	AP Statistics* (Weighted Course)	11-12	1.00

SCIENCE

Course No.	Subject	Grade	Credit
0930	General Science	9	1.00
0931	Biology 9	9	1.50
1030	Biology	10	1.50
1031	V.T. Biology	10-11	1.00
1032	Biology Remediation	10-12	0.50
1231	Applied Chemistry	11	1.00
2030	Chemistry	10-11-12	1.50
2031	Physics	10-11-12	1.00
2032	Physical Science	11-12	1.00
2033	Environmental Science	11-12	1.00
2034	Anatomy and Physiology	11-12	1.00
2035	Chemistry Honors* (Weighted Course)	10-12	1.50
2039	Forensic Science	11-12	1.00
3031	AP Chemistry* (Weighted Course)	11-12	1.50
3032	AP Physics* (Weighted Course)	11-12	1.50

SOCIAL STUDIES *

Course No.	Subject	Grade	Credit
0940	Geography/Economics	9	1.00
0941	Geography/Economics Honors* (Weighted Course)	9	1.00
1040	World History II	10	1.00
1041	World History II Honors* (Weighted Course)	10	1.00
1140	American History II	11	1.00
1240	American Government	12	1.00
2040	Psychology	11-12	1.00
3040	AP American Govt. & Politics* (Weighted Course)	11-12	1.00
3041	AP Psychology* (Weighted Course)	11-12	1.00
3042	AP U.S. History* (Weighted Course)	11-12	1.00
* Students a	are required to take Geography, World History II, Americ ent.	an History II a	nd American

ELECTIVES

Business/Technology Electives			
Course No.	Subject	Grade	Credit
1280	Personal Finance II	12	0.50
2078	Sports & Entertainment Marketing	10-11-12	0.50

English Electives			
Course No.	Subject	Grade	Credit
2010	SAT Preparatory Fundamentals	10-11-12	0.50
2011	Creative Writing	11-12	0.50
2012	Film Study	11-12	0.50
2016	Public Speaking	11-12	0.50
2019	Journalism	11-12	1.00

Family & Co	onsumer Science Electives		
Course No.	Subject	Grade	Credit
2070	Family & Consumer Science	9-10	1.00
2071	Foods & Nutrition I	10-11-12	1.00
2072	Cooking Around the World	10-11-12	0.50
2073	Foods & Nutrition II	11-12	1.00
2074	Child Development	10-11-12	0.50
2075	Living on Your Own	11-12	0.50

General Electives			
Course No.	Subject	Grade	Credit
2017	Yearbook I	10-11-12	1.00
2018	Yearbook II	11-12	1.00

Math Electiv	ve		
Course No.	Subject	Grade	Credit
2010	SAT Preparatory Fundamentals	10-11-12	0.50

ELECTIVES (continued)

Course No.	Subject	Grade	Credit
2040	Psychology	11-12	1.00
2041	Ancient Greece to Renaissance	11-12	0.50
2042	Medieval Europe	11-12	0.50
2043	The 60s, 70s, & 80s	11-12	0.50
2044	Criminal Justice	11-12	1.00
2045	Heroes & Villains in History	11-12	0.50
2046	Women's Studies	11-12	0.50
2047	Local and PA History	11-12	0.50
2048	Sociology	11-12	0.50
2049	Mass Media Evolution and Social Influence	11-12	0.50

Science Electives			
Course No.	Subject	Grade	Credit
2033	Environmental Science	11-12	1.00
2034	Anatomy and Physiology	11-12	1.00
2039	Forensic Science	11-12	1.00

Technology Education Electives			
Course No.	Subject	Grade	Credit
0982	Foundations of Technology	9-12	0.50
2077	Computer Programming and Coding	11-12	0.50
2081	Enterprise	11-12	1.00
2082	Computer-Aided Design and Design (CADD)	9-10-11-12	0.50
2083	General Repair and Maintenance	9-10-11-12	0.50
2084	Material Processing	10-11-12	0.50
2085	Robotics	11-12	1.00
2086	Intro to Engineering	10-11-12	0.50
2087	Computer-Aided Manufacturing	10-11-12	0.50
2088	Research and Design	11-12	0.50
2088A	Wood Advanced	11-12	0.50
2089	Advanced Robotics	11-12	1.00

REQUIRED ELECTIVES*

Course No. 0980	Subject Computer Applications	Grade 9	Credit 0.50
1016	Research & Career Exploration	10	0.50
1017	Applied Research & Career Exploration	10	0.50
1180	Personal Finance	11	0.50
1190	Health	11	0.50

^{*} Most students are scheduled into these courses each year opposite a corresponding grade level physical education course. They can be used to partially satisfy elective requirements.

AP COURSE OFFERINGS

Course No. 3010	Subject AP Literature and Composition* (Weighted Course)	Grade 11-12	Credit 1.00
3011	AP Language and Composition* (Weighted Course)	11-12	1.00
3020	AP Calculus* (Weighted Course)	11-12	1.00
3021	AP Statistics* (Weighted Course)	11-12	1.00
3031	AP Chemistry* (Weighted Course)	11-12	1.00
3032	AP Physics* (Weighted Course)	11-12	1.00
3040	AP Government & Politics* (Weighted Course)	11-12	1.00
3041	AP Psychology* (Weighted Course)	11-12	1.00
3042	AP US History* (Weighted Course)	11-12	1.00

University of Pittsburgh's College in High School Coursework

Iroquois Jr./Sr. High School has proudly partnered with the University of Pittsburgh in order to bring college coursework to the high school classroom (CHS). Students have the option of three courses from which they can choose to take and potentially earn college credit and high school credit simultaneously. CHS courses are weighted courses. Additional information regarding CHS coursework can be found at:

https://www.asundergrad.pitt.edu/sites/default/files/chsstudentfaq.pdf

3141	CHS Theories of Leadership	10-12	1.00
3170	CHS Programming in Python*	11-12	1.00
3172	CHS Preparation for Biology	10-12	1.50

ERIE COUNTY TECHNICAL SCHOOL (ECTS)

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

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

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

Course No.: 2792 or 2793

Technical Training Clusters: Art & Design for Business, Computer Networking, Computer Programming, Drafting & Design, Graphic Communications.

Construction: Construction Trades, Facility Maintenance Technologies

Human Services: Cosmetology, Culinary Arts, Early Childhood Education, Health Assistant, Tourism & Hospitality Management

Manufacturing: Electrical Engineering, Metal Fabrication, Precision Machining

Transportation: Auto Body Repair, Automotive Technologies

ECTS COURSE SEQUENCING & CREDIT REQUIREMENTS

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

- Once enrolled in ECTS, students earn 10.00 credits via ECTS and 14.00 credits via IHS for a minimum total of 24.00.
- AM ECTS students earn 4.00 credits in 10th grade.
- PM ECTS students earn 3.00 credits in 11th and 12th grade.
- Please note that if a student is placed in AM ECTS in 11th or 12th grade, he/she will earn 4.00 credits that year via ECTS.

English: 4.00 credits
Math: 3.00 credits
Science: 3.00 credits
Amer. Gov't: 1.00 credits

Electives/Fine Arts: 3.00 credits (minimum)

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

Grade 9 Grade 10 <u>Grade 11</u> Grade 12 English English English English Math Math Math Amer. Gov't Science Science Math Science Social Studies Health 11/PE Elective **ECTS ECTS**

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RESERVE OFFICER TRAINING CORPS (ROTC)

Course No.: 8100

Board Approved: 3/22/2022

Subject: Air Force Junior Reserve Officers Training Corps

Grades: 9-12

Credits Earned per Year: 3.00

Through an agreement with Wattsburg Area School District, students in grades 9-12 in the Iroquois School District can participate in ROTC. The program is run by the Air Force and housed at Seneca High School. Students must maintain good academic, behavioral, and attendance standing within the program and home school to continue to be eligible for the ROTC program. Students will earn 3.0 credits per year for participation in ROTC. These credits are typically applied as follows to the Iroquois School District Graduation requirements.

AFJROTC CREDIT APPLICATION

Students should earn the following credits via AFJROTC:

 Science:
 2.00 Credits

 Social Studies:
 2.00 Credits

 Math:
 1.00 Credit

 PE:
 1.00 Credit

 Electives:
 6.00 Credits

 5.00 Core Credits

 +7.00 Electives

 12.00 Credits

DUAL ENROLLMENT

Dual Enrollment, referred to as "concurrent enrollment" in the Pennsylvania School Code, is an initiative to allow a broader range of students to experience post-secondary coursework and its increased academic rigor, while still in the supportive environment of their local high school. The intent is to increase the number of students that go on to post-secondary education and to decrease the need for remedial coursework at post-secondary institutions. All post-secondary courses carry a weighted grade.

Dual Enrollment is a locally administered program that allows a secondary student to concurrently enroll in post-secondary courses (college) and to receive both secondary and post-secondary credit for that coursework. The local programs are run through partnerships between school entities and eligible post-secondary institutions. Students can take collegiate level courses at local participating colleges. Colleges in our area that participate are Penn State Behrend, Gannon University, Edinboro University and Mercyhurst College.

DUAL ENROLLMENT CRITERIA & PROCEDURE

- 1. The student is a high school junior or senior.
- Complete a Dual Enrollment application through the counseling office prior to scheduling dual enrollment classes.
- 3. The student is making satisfactory progress toward fulfilling graduation requirements as determined by the school district, including progress on the Career Portfolio (CP).
- 4. The student has scored at least proficient on the Keystone assessment.
- The student demonstrates readiness for college-level coursework in the intended subject area of study, as determined by the college. The college will determine readiness based on high school GPA, SAT scores, and/or completed specific college level courses.
- 6. Case by case review by home school principal/school counselor using grades, curriculum, and completed Keystone scores along with recommendation of core curriculum course teacher.
- 7. Maintenance of a secondary school grade point average of 3.0 or above in the applicable area of study. Maintenance of 3.0 GPA in each dual enrollment course from prior semesters.
- 8. No disciplinary referrals year prior to application.
- 9. If IHS is offering an AP Course of similar name or curriculum, dual enrollment will be denied.
- 10. Allowable collegiate courses:
 - a. English, Reading, Language Arts
 - b. Mathematics
 - c. Science
 - d. Social Sciences
 - e. Foreign Language
 - f. Civics, Government, Economics
 - g. Arts
 - h. Geography
 - i. History
- 11. Once approved by the high school administration, it is the student/parent responsibility to complete the college enrollment process including all financial obligations. Transportation is the parent/student responsibility.

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COURSE DESCRIPTIONS

ART

2598 LIFE SKILLS ART

Grades 9-12

Credits: 0.00

This course is designed to allow students to fully immerse themselves in a differentiated visual arts curriculum. Students will use various materials to create pieces of artwork that include drawing materials, watercolor and acrylic, clay and so on. They will have this time to work on individual goals throughout the year while being able to express themselves through the different materials used to create their projects.

2061 ART I: FUNDAMENTALS OF ART

Grades 9-12

Credit: 0.50

Prerequisite for any other visual arts class offered

This course is designed to introduce fundamental principles and a variety of materials that are a necessary foundation in order for students to take the other visual arts courses offered. Students will learn how to use a variety of techniques including drawing, painting, ceramics, sculpture, and more. Movements and artists in Art history as well as critiques will also be discussed throughout the year.

2062 ART II: ADVANCED ART

Grades 10-12

Credit: 1.00

Prerequisite: Art 1 Fundamentals of Art or a teacher recommendation

This course is a combination of previous coursed composed of drawing and painting. Students in Art II will explore more advanced 2D materials and concepts. They will focus on a variety of drawing and painting techniques throughout the year. The first half will focus on using drawing materials like graphite, charcoal, colored pencil, and pastels. The second half of the year will focus on using watercolor, acrylic and oil paints to create works of art. Students will also dive into art movements and artists throughout art history along with key concepts like critiques and how to present and show their work.

2063 ART III: MASTERS ART CLASS

Grades 11-12

Credit: 1.00

Prerequisite: Art I and II or a teacher recommendation

This course is designed for the serious art student looking to explore a variety of materials and build an art portfolio. Students will be able to use 2D and 3D art materials in depth in order to create and organize a body of work. They will also look at artists from different art movements including more contemporary artists to help shape their work. Frequent critiques will also be a focus throughout the course.

2064 SCULPTURE Grades 11-12

Credits: 0.50

Prerequisite: Art I Fundamentals of Art and Ceramics

Students will take concepts learned in ceramics and apply it to creating 3D sculptures. Students will be able to use a variety of materials to create relief sculptures and sculptures in the round. They will focus on the elements of art and principles of design to create different projects throughout the year. Students will have the opportunity to create different sized sculptures that are inspired by various artists studied throughout the year.

2065 JEWELRY MAKING & PRACTICAL MEDIUMS

Grades 10-12

Credits: 0.50

Prerequisite: Art I Fundamentals of Art

This course is designed to look at creating art using practical materials in the arts. Students will look at different fabrication techniques in jewelry making along with weaving and other crafts found in a variety of cultures. Students will look at the impact that these types of art have had throughout time and different societies.

2066 PRINTMAKING

Grades 10-12

Credits: 0.50

Prerequisite: Art I Fundamentals of Art

This course is designed to introduce students to different techniques in printmaking. Students will look at intaglio, relief printing, monoprints and silkscreen prints. They will be able to learn the history of printmaking to give a basis of how it came to be as well as how it transformed into an art form over time. Students will use the printing press as well as other techniques to create their prints. They will also have an opportunity to make paper.

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2067 DIGITAL ART & PHOTOGRAPHY

Credit: 0.50

Prerequisite: Art I Fundamentals of Art

This course is designed to explore different types of digital art emphasizing digital photography. Students will also spend time being introduced to the dark room. They will learn how to use tools in Photoshop along with using different software made available. The latter half of the year will be dedicated to working in the dark room and learning how to take and develop film.

2068 CERAMICS Grades 10-12

Credit: 0.50

Prerequisite: Art I Fundamentals of Art

This course will introduce hand-building techniques as well as, the wheel to students interested in 3D art. Students will learn how to form pieces of pottery as well as how to glaze them. Projects will range from looking at the earliest pinch pots from the Prehistoric Era to contemporary artists using both hand-building and throwing techniques. Students will be able to complete pinch pots, coil pots, slab lanterns, thrown cups and bowls, etc.

BUSINESS

0980 COMPUTER APPLICATIONS

Grade 9

Grades 10-12

Credit: 0.50

Computer Applications focuses on the Microsoft Office Suite and its major applications. Students will be introduced to Microsoft Excel while reinforcing and expanding on their knowledge of Microsoft Word and Power Point. Consumer mathematics concepts will be covered using Excel formulas and functions. Students will also complete the Soft Skills courses in the WIN learning program along with soft skills workshops to enhance skills needed in any career. Skills reinforced include teamwork, time management, communication, and problem solving.

1180 PERSONAL FINANCE

Grade 11

Credit: 0.50

A course taken by most juniors. Personal Finance helps students understand issues and situations he/she will face when living independently. They will learn concepts for using credit wisely, money and banking, taxes, setting financial goals and much more. During the career research and development portion of the course, students will use the WIN Learning program, an interactive website with college/career readiness modules, as well as a resume writing tool and abundance of career related information. Also, included in this course are basic accounting principles, balancing a checkbook, and the basics of renting/owning your residence.

1280 PERSONAL FINANCE II

Grade 12

Credit: 0.50

Prerequisite: Teacher Recommendation and an 85% or above in Personal Finance

This course is an elective for seniors who have taken Personal Finance as juniors. Students will expand on what they learned in Personal Finance by learning about investing their financial resources. Units will cover investments like stocks, bonds, and saving for retirement. Personal Finance II will also teach students necessary information on different types of insurance including home, auto, health, disability, and life.

2078 SPORTS AND ENTERTAINMENT MARKETING

Grade 10-12

Credit: 0.50

This course will give students an introduction to marketing, advertising, retail, and public relations with a special emphasis on sports and entertainment marketing. Students will learn the role marketing plays in how we research and buy products and services on a daily basis. The course will consist of group discussion, research, and analysis-based projects to create marketing plans for businesses in the sports and entertainment worlds.

ENGLISH

0900 READ 180

Grade 9

Credit: 1.00

Read 180 Level C-Next Generation is a comprehensive system of curriculum, instruction, and assessment developed to raise reading achievement for struggling readers. Read 180 Next Generation-Level C is directly linked to the Read 180-Level B program used in grade 8 The program/course is designed to focus on comprehension, vocabulary development, fluency practice, decoding and word recognition, to practice spelling and common patterns, and develop skills for writing through teacher-led instruction and individualized practice. This course is designed to align with the Pennsylvania Common Core Standards requirements in reading, writing, speaking, and listening.

0910 ENGLISH 9 Grade 9 Credit: 1.00

English 9 is a fundamentals of writing and reading course aligned to the Pennsylvania Common Core Standards. It is designed to include the writing of various forms and functions of narrative, informational, and persuasive compositions. Students will improve the effectiveness of their writing by studying focus, organization, content, style, and conventions. Additionally, students will learn to analyze and decipher both fiction and non-fiction texts, studying grade level vocabulary in conjunction with reading.

0911 ENGLISH 9 HONORS*

Grade 9

Credit: 1.00 (Weighted Course)

Prerequisite: Teacher Recommendation and an 85% or above in Grade 8 English and Reading

English 9 Honors is a more advanced writing and reading course aligned to the Pennsylvania Common Core Standards including the various forms and functions of narrative, informational, and persuasive compositions aligned to the Pennsylvania Academic Standards. Much of the student writing involves critical essays written in response to class reading and seminars. Reading selections will include fiction and non-fiction, poetry, essays, and articles. Students read, discuss, interpret, and write at a much faster pace interacting with the text to use a higher level of critical thinking. An advanced vocabulary program is part of the course.

1010 ENGLISH 10 Grade 10

Credit: 1.00

This course is designed to further enhance the students' writing skills, as well as give them opportunities to apply those skills based on the literature covered in class and writing prompts. In addition, the study of vocabulary, mechanics, and usage will be incorporated into the readings that will be covered including poetry, the novel, and short stories. The purpose of this course is to prepare students to handle communication skills in the world today. This course is designed to align with the Pennsylvania Common Core Standards requirements in reading, writing, speaking, and listening.

1011 ENGLISH 10 HONORS*

Grade 10

Credit: 1.00 (Weighted Course)

Prerequisite: Teacher recommendation and an 85% or above in Grade 9 English

Advanced writing skills acquired in previous honors courses will be applied to persuasive and informative writing prompts. Students will also write critical response essays for novels applying proper research and source documentation. The course also includes short stories in which literary criticisms, analysis of themes, and application of elements of short stories are required. Critical analysis will be applied to different styles of poetry including dramatic, narrative, free verse, and sonnets. Research skills will further be applied to the career paper required for the class. Grammar and mechanics are reviewed on an as-needed basis. All of the objectives in the course are geared to the reading and writing standards for Pennsylvania Common Core Standards. This course is designed to align with the Pennsylvania Common Core Standards requirements in reading, writing, speaking, and listening.

1110 ENGLISH 11 Grade 11

Credit: 1.00

English 11 is designed to further enhance the students' reading, writing, speaking, and listening skills. The curriculum is aligned with the Pennsylvania Common Core Standards which focus on the improvement of reading independently and critically; reading, analyzing and interpreting fiction & informative texts; writing persuasive and informative pieces including the research paper; and public speaking in both formal and informal situations. All genres of American writing will be studied.

1111 ENGLISH 11 HONORS*

Grade 11

Credit: 1.00 (Weighted Course)

<u>Prerequisite</u>: Teacher recommendation and an 85% or above in Grade 10 English. Score Proficient or Advanced on the Keystone Exams.

English 11 Honors is a course that emphasizes the critical reading of major works in American literature. Students in this course must be capable of completing demanding work independently. Unabridged primary texts and critical reviews are the basis of seminars and critical essays. The curriculum is aligned with the Pennsylvania Common Core Standards which focus on the improvement of reading independently and critically; reading, analyzing and interpreting fiction & informative texts; writing persuasive and informative pieces including the research paper; and public speaking in both formal and informal situations. Recommended pre-requisites for the course include teacher recommendation and students maintaining an 85% or above in Grade 10 English.

1210 ENGLISH 12 Grade 12 Credit: 1.00

English 12 is designed for students with fundamental reading and writing skills as determined by the Keystone assessment, as well as teacher recommendation and student interest. The curriculum aligns with the reading, writing, speaking, and listening Pennsylvania Common Core Standards with focus on improving student achievement of the Academic Standards. Students will practice and develop reading, listening and speaking, and writing skills. The purpose of this course is to prepare students to enter the world of work and to function at a competent level in reading, writing, and speaking.

1211 ENGLISH 12 HONORS*

Grade 12

Credit: 1.00 (Weighted Course)

Prerequisite: Teacher recommendation and an 85% or above in Grade 11 English

English 12 Honors is designed for students with advanced reading and writing skills as determined by the Keystone assessment, teacher recommendation and student interest. The curriculum aligns with the reading, writing, speaking, and listening Pennsylvania Common Core Standards on a post-secondary level. Unabridged primary texts and critical reviews are the basis for in-depth discussion and written assignments. After in-depth seminars analyzing the work for its literary devices, elements and impact on society, students will write a literature analysis paper with in-text documentation for some of the texts.

3010 AP LITERATURE AND COMPOSITION*

Grades 11-12

Credit: 1.00 (Weighted Course)

<u>Prerequisite</u>: Grade 9 and 10 Honors English with a grade of 93% or above and/or teacher recommendation. Teacher recommendation for students currently taking an AP English course.

The AP English Literature and Composition course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Extensive reading, oral presentations, in–depth class discussion and high caliber writing are necessary skills for the class.

3011 AP LANGUAGE AND COMPOSITION*

Grades 11-12

Credit: 1.00 (Weighted Course)

The AP English Language and Composition course is designed to help students become skilled readers of prose written in a variety of rhetorical contexts and to become skilled writers who compose for a variety of purposes. Both the writing and the reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects and enable students to analyze the way generic conventions and the resources of language contribute to effectiveness in writing. Extensive reading, oral presentations, in-depth discussion, and high caliber writing are skills expected. The recommended pre-requisites for the class are 9th & 10th grade Honors English, wherein students maintained a 93% or above, and/or be recommended by teachers because of the pacing and rigor of the course. If students are currently taking an AP English course, a recommendation from the current AP instructor is a required pre-requisite.

ENGLISH ELECTIVES

1016 RESEARCH & CAREER EXPLORATION

Grade 10

Credit: 0.50

This course is designed to teach students the steps to properly identify valid sources and incorporate them into assignments where research is required. Students will learn both MLA and APA format in order to create a proper works cited page and incorporate in text citation within assignments involving their research. The class will culminate with a career paper in which students will explore various career possibilities and include the research format in their paper to show proper understanding of the process.

1017 APPLIED RESEARCH & CAREER EXPLORATION

Grade 10

Credit: 0.50

This course is designed to teach students the basic steps to properly research, identify valid sources and incorporate them into writing assignments where research is required. Students will learn both MLA and APA format in order to create a proper works cited page and learn how to incorporate and properly use in text citation within assignments involving research. The class will culminate with a career paper in which students will explore various career possibilities and include the research format to demonstrate proper understanding of the process.

2010 SAT PREPARATORY FUNDAMETALS

Grades 10-12

Credit: 0.50

*Recommended for Juniors, but available for Sophomores and Seniors.

The SAT Fundamentals class is designed for students who are planning to take their SATs in order to gain college admittance. Students in the class must sign up to take the SATs during one of test sessions the year they take the class. The curriculum for this class will rely on Khan Academy, a website that is directly correlated with the official SAT exam. Students in the class will learn the make-up of the test, test-taking tips, and review and practice strategies for the reading, writing, language, and math portions of the exam. They will also complete timed practice tests in order to replicate the testing environment in which they will experience.

2011 CREATIVE WRITING

Grades 10-12

Credit: 0.50

Creative writing is designed for students who are interested in participating in a creative approach to writing. Students will read and analyze various types of prose and poetry models and write their own prose and poetry incorporating the techniques studied. Through constant practice of various literary techniques, students will develop their own writer's voice. The items produced will be incorporated into a writing portfolio. Students will also work together to produce a literary magazine of their best pieces.

2012 FILM STUDY Grades 11-12

Credit: 0.50

Film study will offer an introduction to film from its beginning to how it has evolved throughout the years. Films will be studied through both time and genre, including but not limited to, production of movies, casting of movies and the analysis of different genres. Students will apply knowledge gained about style and structure to analyze movies in the form of movie reviews. In addition, students will become familiar with movie directors and producers. Novels may be read to do a book to film comparison. Film Study requires a signed parent permission form to view all or parts of films with R ratings.

2016 PUBLIC SPEAKING

Grades 11-12

Credit: 0.50

Speech is a course designed for students to improve their communication and public speaking skills. The areas covered include listening, speaking, and research as aligned with the reading, writing, speaking, and listening Pennsylvania Academic Standards 1.6 and 1.8. The primary focus is on effective listening and speaking, with special emphasis on successful delivery techniques. Several speeches place emphasis on research skills such as the location, organization, and acknowledgment of sources. Five types of these speeches are mandatory (introduction, informational, persuasive, demonstration, and personal experience), and students may select from a list of optional types of speeches for the five remaining.

2019 JOURNALISM Grades 11-12

Credit: 1.00

Prerequisite: Teacher recommendation and an 85% or above in current English class.

Journalism is a course designed to foster positive learning experiences while teaching journalistic writing and production of a real-life newspaper. The course is designed to involve students in writing, design, and photography assignments, as well as collaborative projects. Students will learn how to properly write for print journalism, photojournalism, lead-writing, media ethics, the parts of a newspaper, how to properly interview someone, fact attribution, and more. The class is designed to provide the necessary knowledge to run a school-based newspaper that will be circulated around the school. Students will be expected to be active participants in all aspects of the newspaper production and will be responsible for producing and keeping on record a portfolio of all their work. Portfolios will include written assignments, transcripts of interviews, photographs, and notes.

FAMILY & CONSUMER SCIENCES ELECTIVES

2070 FAMILY & CONSUMER SCIENCES

Grades 9-10

Credit: 1.00

A comprehensive course for 9th grade students includes a full introduction to the overall Family & Consumer Science curriculum. Students will build skills in applying basic academics, problem solving, decision making, creative and critical thinking. Areas such as self-concept, sewing, clothing construction, consumer issues, financial planning, childcare, foods and nutrition are explored.

2071 FOODS & NUTRITION I

Grades 10-12

Credit: 1.00

Students in Foods & Nutrition prepare food items according to various units of study. Students complete a food safety unit that will allow them to earn a food safety certification from eFoodHandlers that is recognized by the Pennsylvania Health Department for food service workers. Students then work in small groups to prepare and then sample and evaluate their products. Proper nutrition, good meal planning and careful food buying habits are stressed. Students design a plan to equip their own kitchen with the resources needed to plan and prepare nutritious meals.

2072 COOKING AROUND THE WORLD Grades 10-12

Credit: 0.50

Prerequisite: A final grade of C or better in Foods I and/or teacher recommendation.

Students will review food and kitchen safety principles, then learn basic cooking techniques and customs of regions around the world including Latin America, North America and Canada, Europe, Asia, Africa, Australia and Oceania. Students will learn to make shopping lists for their labs and create foods within a specified budget.

2073 FOODS & NUTRITION II

Grades 11-12

Credit: 1.00

Prerequisite: A final grade of C or better in Foods I and/or teacher recommendation.

Students will review food and kitchen safety principles, then study advanced cooking techniques including the 5 basic sauces, making noodles, baking quick breads and yeast breads, cakes and pies. Students will learn to make shopping lists for their labs and create foods within a specified budget.

2074 CHILD DEVELOPMENT

Grades 10-12

Credit: 0.50

Child development offers a complete background of child development from birth through school age plus a look at the human lifecycle. Child psychology and methods of parenting are studied while the students obtain real life experience with an infant simulator. A unit that includes the use of the infant simulator by each student is a course requirement.

2075 LIVING ON YOUR OWN

Grades11-12

Credit: 0.50

This course will allow students to explore the financial decisions made when living on their own. Students will learn how to rent, initiate utility service (gas, electric, sewer, water, cable, internet), and furnish an apartment or a home. Students will learn to shop for a bank to secure and maintain a checkbook, and shop for health, vehicle, and home or renter's insurance. Students will also set up and follow a budget that includes weekly expenses such as transportation, food, and personal care costs in a class simulation.

FOREIGN LANGUAGES ELECTIVES

2050 SPANISH I

Grades 9-12

Credit: 1.00

Spanish I builds oral proficiency using mainly the present tense. Students will be able to conjugate verbs, utilize various grammar structures and build a working vocabulary. Listening skills and reading skills are also developed. Some cultural similarities and differences among the United States, Latin America, and Spain are also emphasized to enhance student appreciation for other cultures. Students will converse at a minimum level of proficiency. Students will work towards the Pennsylvania Academic Standards for foreign language: communication, culture, and community.

2051 SPANISH II Grades 10-12

Credit: 1.00

Spanish II is a continuation of Spanish I. Reading, grammar, listening, and vocabulary become more challenging at this level. Cultural lessons are interspersed throughout the various lessons. Students begin to move from a minimum level to an intermediate level of oral proficiency.

2052 SPANISH III Grades 11-12

Credit: 1.00

Spanish III is a continuation of Spanish I and II. Additionally, vocabulary and grammar structures are introduced, as well as polishing of previously learned concepts. Students will read plays, short stories, poems, and essays to synthesize previously learned material. Oral proficiency will be at an intermediate level.

2053 SPANISH IV Grade 12

Credit: 1.00

Spanish IV is the continuation and completion of the previous courses in Spanish. Oral proficiency, listening skills, grammar structures, and vocabulary terms are taught at an intermediate to advanced level.

2054 FRENCH I Grades 9-12

Credit: 1.00

French I builds oral proficiency using mainly the present tense. Students will be able to conjugate verbs, utilize various grammar structures and build a working vocabulary. Listening skills and reading skills are also developed. Some cultural similarities and differences among the United States, Canada, and France are also emphasized to enhance student appreciation for other cultures. Students will converse at a minimum level of proficiency.

2055 FRENCH II Grades 10-12

Credit: 1.00

French II is a continuation of French I. Reading, grammar, listening, and vocabulary become more challenging at this level. Cultural lessons are interspersed throughout the various lessons. Students begin to move from a minimum level to an intermediate level of oral proficiency.

2056 FRENCH III Grades 11-12

Credit: 1.00

French III is a continuation of French II. Additionally, vocabulary and grammar structures are introduced, as well as polishing of previously learned concepts. Students will read plays, short stories, poems and essays to synthesize previously learned material. Oral proficiency will be at an intermediate level.

2057 FRENCH IV Grade 12

Credit: 1.00

French IV is the continuation and completion of the previous courses in French. Oral proficiency, listening skills, grammar structures, and vocabulary terms are taught at an intermediate to advanced level.

GENERAL ELECTIVES

2017 YEARBOOK I Grades 10-12

Credit: 1.00

Students will be REQUIRED to cover events outside of regular school day and PARTICIPATE IN YEARBOOK FUNDRAISERS. Yearbook I is designed to give students the opportunity to prepare and produce a high quality historical publication. Students will learn the basics of yearbook production including organizing theme, designing layouts, writing copy, taking photos, and meeting a budget. Students in Yearbook I will be REQUIRED to: (1) contribute to the completion of layouts; (2) take quality photos to be used in the yearbook; (3) interview students and staff; (4) write captions and story copy; (5) collaborate with other staff members.

2018 YEARBOOK II Grades 11-12

Credit: 1.00

Prerequisite: Completion of Yearbook 1 with an 85% or above and teacher recommendation.

Students will be REQUIRED to cover events outside of regular school day and PARTICIPATE IN YEARBOOK FUNDRAISERS. Yearbook II is a follow-up course to Yearbook I. Students who take Yearbook II will be given increased responsibilities and duties including editing copy and layouts, choosing photos to be used for layouts and budget preparation and planning. Students in Yearbook 2 will be REQUIRED to: (1) contribute to the completion of the ladder and layouts; (2) take quality photos to be used in the yearbook; (3) interview students and staff; (4) write captions and story copy; (5) edit copy of other staff members; (6) guide Yearbook 1 students in basic publication strategies.

HEALTH & PHYSICAL EDUCATION

1190 HEALTH 11 Grade 11

Credit: 0.50

This course will meet every other day (A/B) for the entire school year. The health topics included in this course, taken by most juniors, include:

Character

- Decision and Goal Setting Skills
- Being a Health-Literate Consumer
- Managing Stress and Anxiety
- Mental and Emotional Problems
- · Body Systems
- · Growth and Development
- · Tobacco, Alcohol, and Other Drugs
- · Diseases and Disorders
- · STIs and HIV/AIDS

Students enrolled in Health 11 WILL BE responsible for having a notebook, completing assignments, and completing projects.

2090 PHYSICAL EDUCATION 9

Grade 9

Credit: 0.50

This course will meet every other day (A/B) for the entire school year. The students will set long and short-term fitness goals based on their assessments. Students will be given the tools to pursue an active lifestyle through incorporating skills learned in class. Units in team sports including soccer, football, basketball, team handball, floor hockey, basketball, CPR, volleyball and softball/baseball games will be used to incorporate the physical education state standards.

2092 ADVANCED PHYSICAL EDUCATION

Grades 11-12

Credit: 1.00

Prerequisite: Biology

Advanced Physical Education is designed to give students a strong knowledge base in physiological, anatomical, biomechanical, and nutritional aspects of human physical activity. Students will be examining the body's responses to exercise. Topics will include exercise metabolism, respiration, heart rate, circulation, neuromuscular, hormonal, and environmental influences on exercise. Students will be designing exercise programs for apparently healthy individuals, including adolescence and adults.

2093 AQUATICS Grades 10-12

Credit: 0.50

This course will meet in the Natatorium every other day (A/B) for the entire school year. This class is designed to provide the student with intermediate level swimming skills. Each student will be instructed in all swimming strokes, surface dives, survival float, treading water, PFD use, throwing and reaching assists, and other safety techniques. Students will have an opportunity to learn a lifetime sport as well as be educated in necessary skills to be in and around water. Each student will have the opportunity to enhance his or her skills through individual and group socialization activities. All physical activities that are taught and participated in will be developmentally appropriate.

2094 TEAM SPORTS Grades 10-12

Credit: 0.50

This course is designed for the competitive student. This course will meet every other day (A/B) for the entire school year. The course will continue to develop skills that have been taught in previous years. An emphasis will be placed on "Team Sports". This course is designed for the competitive student who enjoys team sports. The sports that will be the main focus include:

Soccer

Basketball

Football

Floor Hockey

Team Handball

Various other "team" sports

Volleyball

2095 PERSONAL FITNESS

Grades 10-12

Credit: 0.50

This course is designed for the NON-competitive student. This course will meet every other day (A/B) for the entire school year. The course will continue to develop skills that have been taught in previous years. An emphasis will be placed on "Personal Fitness". Students will determine short and long-term goals based on their fitness assessments. Each student will have their own personal workout routine that will include the five components of fitness. Students will work individually or with a partner to attain goals using the tools available to them (fitness center, gymnasium, etc.)

MATH

0920 ALGEBRA A Grade 9

Credit: 1.00

Prerequisite: Successful completion of Pre-Algebra or teacher recommendation

This course is designed in combination with Algebra B to cover all concepts in a traditional Algebra I course. Students who successfully complete this course, will take Algebra B the following year. At the conclusion of Algebra B, students will take the Algebra Keystone exam. This year long course will include the concepts of real numbers and simplifying radicals; writing and simplifying algebraic and exponential expressions; writing and solving one variable multi-step equations, including absolute value and solving systems of linear equations using various methods. There will be a focus on modeling real-world applications through linear functions both graphically and algebraically.

0921 GEOMETRY 9 Grade 9-12

Credit: 1.00

Prerequisite: Successful completion of Algebra I in 8th grade and Keystone Proficiency

Prerequisite for dual enrollment in Geometry and Algebra II: Minimum of 85% in Algebra I.

This course is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. It includes the study of right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. It also emphasizes writing proofs to solve (prove) properties of geometric figures. This is a rigorous course that establishes a faster pace for learners.

1220 CONSUMER MATH Grade 12

Credit: 1.00

Prerequisite: Teacher recommendation

This course is designed primarily for seniors who want to learn how to handle money. Students will build on previously learned math skills and apply them to banking, budgets, borrowing and investing. Students will solve problems related to, but not limited to, managing a household, buying and maintaining a car, home improvements, computing expenses related to rent, mortgages, utility expenses, and taxes.

2021 ALGEBRA B Grades 9-10

Credit: 1.00

Prerequisite: Successful completion of Algebra A or Algebra I

This yearlong course will include an extensive review of one variable and two variable equations. This will extend into writing, solving and graphing one variable multi-step inequalities, including compound inequalities. Two variable inequalities and systems of inequalities will be solved graphically. It will also include simplifying polynomial, exponential and radical expressions; solving linear, quadratic, rational and radical equations. Probability and statistics in various forms will be covered as well as using linear patterns in data to make predictions. The content in Algebra A and Algebra B combine to cover all concepts in a traditional full year Algebra I course. The Algebra Keystone exam will be taken at the conclusion of this course.

2022 ALGEBRA I Grades 9-12

Credit: 1.00

Prerequisite: Successful completion of Pre-Algebra

This year long course will include the concepts of real numbers and simplifying radicals; writing and simplifying algebraic and exponential expressions; writing and solving one variable multi-step equations, including absolute value and solving systems of linear equations and linear inequalities using various methods. There will be a focus on modeling real-world applications through linear functions both graphically and algebraically. It will also include simplifying polynomial, exponential and radical expressions, solving linear, quadratic, rational and radical equations. Probability and statistics in various forms will be covered as well as using linear patterns in data to make predictions. The Algebra Keystone exam will be taken at the conclusion of this course.

2023 ALGEBRA II Grades 9-12

Credit: 1.00

Prerequisite: Successful completion of Algebra I or Algebra B.

This course builds on topics learned in Algebra I with an emphasis on applications and word problems. This course takes an investigative approach toward new topics such as operations with rational expressions and polynomials as well as an introduction to transformations, roots, complex numbers, quadratic functions, logarithms and combinatorics. Students will be asked to problem solve and are required to apply algebra to real-life situations. As this class contains topics that are more abstract than those in Algebra I, a solid foundation in Algebra I is required.

2024 GEOMETRY Grades 9-12

Credit: 1.00

Prerequisite: Successful completion of Algebra I or Algebra B

Prerequisite for dual enrollment in Geometry and Algebra II: Minimum of 85% in Algebra I.

This course is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. It includes the study of right triangle trigonometry. Inductive and deductive thinking skills are used in problem solving situations, and applications to the real world are stressed. It also emphasizes writing proofs to solve (prove) properties of geometric figures.

2025 INTRODUCTION TO PROBABILITY & STATISTICS

Grades 10-12

Credit: 1.00

Prerequisite: Successful completion of Algebra II or teacher recommendation.

The purpose of the course is to expose students to the theory and applications of probability and statistics. Probability is the study of chance and prediction. Statistics is the study of data expressed in quantitative form. Probability and statistics are useful in making informed decisions in everyday life and are used extensively in the natural and social sciences, medicine, business, and other areas. The curriculum of this course resembles an introductory college course in probability and statistics.

2026 TRIGONOMETRY

Credit: 1.00

<u>Prerequisite</u>: (A minimum of 85% in Algebra II) -or teacher recommendation.

The purpose of this course is to integrate techniques from algebra and geometry in a trigonometric setting. Special emphasis is placed on functions, the Unit Circle, trigonometric identities, trigonometric equations, Law of Sines and Cosines, and graphs of the trigonometric functions. Exploring problem solving strategies and the graphing calculator are integral parts of the course.

2027 CALCULUS (HONORS)*

Grades 10-12

Grades 11-12

Credit: 1.00 (Weighted Course)

Prerequisite: (A minimum of 85% in Trigonometry)- or teacher recommendations.

This Honors level course will expose the college-bound student to the rigors of calculus and analytic geometry. The purpose is to better prepare the academic student for work encountered in pure and applied science curricula at institutions of higher learning. Differentiation and integration are major cornerstone topics of this course; functions, relations, and graphing are discussed throughout the course. Many applications of skills to problem solving are also involved in the course work.

3020 AP CALCULUS*

Grades 11-12

Credit: 1.00 (Weighted Course)

<u>Prerequisite</u>: Successful completion of Trigonometry with a minimum of 90% or teacher recommendation. This course will allow students to extend their mathematical knowledge, and to further prepare those who are college bound to the rigors of calculus. This will further enhance the academic student for work encountered in, but not limited to, fields in pure and applied science at higher level institutions of learning. The purpose of this class is to cover the essential and extended topics of calculus including limits, integration, and differential equations as well as specific applications of each topic.

3021 AP STATISTICS*

Grades 11-12

Credit: 1.00 (Weighted Course)

Prerequisite: A minimum of 90% in Algebra II and a minimum of 85% in most recent English course.

The advanced placement statistics course covers four themes: 1) Exploratory analysis of data makes use of graphical and numerical techniques to study patterns and departures from patterns. Emphasis is placed on interpreting information from graphical and numerical displays and summaries. 2) Data must be collected according to a well-developed plan if valid information on a conjecture is to be obtained. This plan includes clarifying the question and deciding upon a method of data collection and analysis. 3) Probability is the tool used for anticipating what the distribution of data should look like under a given model. 4) Statistical inference guides the selection of appropriate models. Graphing calculators and statistical software will be used on a regular basis to understand and make connections with the four stated themes. Simulations will be incorporated throughout the course to allow students to develop the necessary knowledge applicable to various concepts. Students must have completed Probability & Statistics and/or have instructor approval.

3120 CHS BASIC APPLIED STATISTICS*

Credit: 1.00 (Weighted Course)

Prerequisite: A minimum of 90% in Algebra II. A minimum of 85% in most recent English class

or teacher recommendation.

This course is designed to provide a thorough investigation of beginning statistical concepts at the college level. To assist students in making connections and drawing inferences, this course makes extensive use of projects, simulations, and real-world situations/data. Major topics include the organization and exploration of collected data, descriptive statistics, probability, and inferential statistics. Each group of chapters is geared towards clearly teaching, then reinforcing the course requirements established by the University of Pittsburgh. Each group of chapters will include at least one student driven assignment or activity. Review of previously learned material is ongoing and a diverse number of topics will be revisited on a regular basis. Students may concurrently earn University of Pittsburgh Credits for a fee.

MATH/ENGLISH ELECTIVE

2010 SAT PREPARATORY FUNDAMETALS

Grades 10-12

Grades 11-12

Credit: 0.50

*Recommended for Juniors, but available for Sophomores and Seniors.

The SAT Fundamentals class is designed for students who are planning to take their SATs in order to gain college admittance. Students in the class must sign up to take the SATs during one of test sessions the year they take the class. The curriculum for this class will rely on Khan Academy, a website that is directly correlated with the official SAT exam. Students in the class will learn the make-up of the test, test-taking tips, and review and practice strategies for the reading, writing, language, and math portions of the exam. They will also complete timed practice tests in order to replicate the testing environment in which they will experience.

MUSIC

2160 CONCERT CHOIR

Grades 9-12

Credit: 1.00

Concert choir is a performing organization in which students will learn the basic techniques of singing including quality tone production, proper breathing techniques and posture, and stage etiquette. Students will perform in three concerts throughout the year including the holiday and spring concert. Students will be exposed to a variety of stylistic differences in choral music and learn the essentials of performing and understanding those styles. The class is open to any student who is interested in learning how to sing in a quality choral ensemble.

2162 MARCHING/CONCERT BAND

Grades 9-12

Credit: 1.00

Prerequisite: Instructor Approval

The Symphonic Band is the top-performing band at Iroquois. Instruction concentrates on advanced technical and expressive skills in soloistic, chamber and full ensemble settings. Instruments include brass, woodwinds, and percussion. Advanced music reading, musicianship, responsibility, and experience are basic necessities.

2163 TECHNICAL MUSICAL COMPOSITION

Grades 9-12

Credit: 1.00

Students will explore music composition and arranging through the use of technology. This course will provide an overview of basic music composition theory including harmony, melody, form, rhythm, and timbre. Students will explore factors that influence music composition and production including the music industry and copyright laws. Students will create musical compositions while learning to use a variety of music composition software including, but not limited to sound editors, audio looping programs, and music sequencers.

2164 VOCAL ENSEMBLE

Grades 9-12

Credit: 1.00

Vocal Ensemble is an organization in which students perform a higher level of repertoire in the school and community. The group will focus study on varied genres of music. Emphasis will be placed on quality singing and performance techniques on an intensified level. Multiple performances will be scheduled throughout the year, many of which will be outside of school. After school practice will also be scheduled as needed throughout the year. Vocal Ensemble requires a high level of commitment as all performances are mandatory and each individual student is necessary for the success of the program. Students may need to take at least one year of Concert Choir prior to auditioning for the class. All Vocal Ensemble members MUST audition with the Instructor.

SCIENCE

0930 GENERAL SCIENCE

Credit: 1.00

Grade 9

General Science 9 is a required course for all students in secondary school who do not advance to Biology after Grade 8. Students in the course will be able to describe and interpret relationships between biological structures and their functions at various levels of organization, with a focus on the twelve human systems. General Science 9 introduces the students to basic concepts relating to the world of science. Students will be able to apply the scientific method by designing experiments and collecting, analyzing, and interpreting data. Additionally, students will study the modern Linnaean Classification System and be able to classify all living things into one of its five kingdoms. In the course, students will be introduced to concepts of ecology, including levels of organization in the biosphere, biotic and abiotic components, interactions in an ecosystem, energy flow through an ecosystem, how matter recycles through an ecosystem, and how ecosystems change. The course builds on acquired science skills by utilizing many laboratory activities, which includes the study of prepared micro-slides, as well as constructing models and performing simulations of life processes. Students are required to keep a notebook containing all notes and other class materials.

0931 BIOLOGY 9 with lab

Grade 9

Credit: 1.50

Prerequisite: Successful completion of Algebra I

Biology is a required course in the science sequence and is designed to provide students with a comprehensive understanding of and an appreciation for the living world around them. A heavy emphasis is placed on conceptual understanding and development of a "big picture" view of how living systems are interconnected. The course builds on strong science process skills by utilizing many laboratory activities. Students are required to keep a binder in order to keep track of all necessary resources and are required to take the PA State Keystone Assessment at the conclusion of this course.

1030 BIOLOGY with lab

Grade 10

Credit: 1.50

Biology is a required course in the science sequence and is designed to provide students with a comprehensive understanding of and an appreciation for the living world around them. A heavy emphasis is placed on conceptual understanding and development of a "big picture" view of how living systems are interconnected. The course builds on strong science process skills by utilizing many laboratory activities. Students are required to keep a binder in order to keep track of all necessary resources and are required to take the PA State Keystone Assessment at the conclusion of this course.

1031 V.T. BIOLOGY

Grades 10 and 11

Credit: 1.00

V.T. Biology is a required course, in the science sequence, for students who attend technical school. The purpose of this course is to give students a better understanding of living organisms, from their inner workings to their interactions within the living and non-living world. A variety of learning methods including lecture notes, demonstrations and activities, and discussions will be utilized, with a common emphasis on collaborative learning. Students are required to take the PA State Keystone Assessment at the conclusion of this course.

1032 BIOLOGY REMEDIATION

Grades 10-12

Credit: 0.50

This course is designed for students who have not demonstrated proficiency on the Keystone Biology exam. This course will identify strengths and weaknesses in specific Biological Concepts and review those areas identified as needing improvement with a focus on increasing student readiness for the keystone exam.

1231 APPLIED CHEMISTRY

Grade 11

Credit: 1.00

This course will expand upon nature of science concepts and continued application of the Scientific Method while uncovering the basic structure and interactions of matter. Students will discover atoms, their bonding to form molecules, and how they interact and transform through chemical reactions. This course covers the required basic concepts of Chemistry with some hands-on learning, via mini-lab activities, for the student who may not be planning to enter into a science field after graduation.

2030 CHEMISTRY with lab

Grades 10-12

Credit: 1.50

Prerequisite: Successful completion of Algebra I and a passing score on the Algebra Keystone

After successful completion of Biology and Algebra I, students will take Chemistry. The course will expand upon nature of science concepts and continued application of the Scientific Method while uncovering the structure and interactions of matter. Students will discover atoms and their basic structures, how they bond to form molecules, and how they interact to create chemical reactions. Numerous lab activities throughout the course will allow students to gain hands-on experience and solve problems directly using experimental data, better illustrating the concepts of the course. Chemistry precedes Physics and science electives.

2031 PHYSICS Grades 10-12

Credit: 1.00

With teacher approval, students may take Physics to fulfill their science requirement. Physics is the study of the physical world: matter, energy, space and time. Units covered include motion, forces, momentum, energy, electricity, magnetism, waves, sound, light and states of matter. An emphasis is placed on the development of problem-solving skills and the application of mathematical skills. The nature of science is fully integrated into this course, which will also incorporate laboratory activities with class time spent on discovering or applying basic physics concepts.

2032 PHYSICAL SCIENCE

Grades 11-12

Credit: 1.00

Students in grades 11 or 12, with teacher approval, may substitute Physical Science to fulfill their science requirement. It is recommended for the non-college bound student. The Physical Science course is designed to enable the student to develop a general knowledge of the concepts, vocabulary and applications of science. The student will leave the activity-oriented course with a basic knowledge of the science field and technologically oriented world.

2035 CHEMISTRY HONORS* with lab

Grades 10-12

Credit: 1.50 (Weighted Course)

Prerequisite: 85% in Biology 9 and Algebra I and a passing score on the Algebra I Keystone

This course will expand upon nature of science concepts and continued application of the Scientific Method while uncovering the structure and interactions of matter. Students will discover atoms and their structures, how they bond to form molecules, and how they interact and transform through chemical reactions. Numerous lab activities throughout the course will allow students to gain hands-on experience and solve problems directly using experimental data, better illustrating the concepts of the course. This course follows the same major topics that make up the backbone of the Chemistry course for tenth and eleventh grade students; however, concepts will be covered in greater detail, and additional supplemental topics may be covered as well (time-permitting), in preparation for future AP science courses.

3031 AP CHEMISTRY* with lab

Grades 11-12

Credit: 1.50 (Weighted Course)

Prerequisite: 90% in Chemistry and 85% in Algebra II

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first year of college. Students attain a depth of understanding of fundamentals of chemistry, matter, and its interactions, and a reasonable competence in dealing with chemical problems. They will be introduced to the areas of organic, inorganic, biological, physical, nuclear, and electrochemistry. The course is laboratory-based, and it contributes to the development of a student's ability to think clearly and to express their ideas, orally and in writing, with clarity and logic. The course is highly recommended for students planning to study science and mathematics at the collegiate level.

3032 AP PHYSICS* with lab

Grades 11-12

Credit: 1.50 (Weighted Course)

Prerequisite: Currently enrolled or completion of Trigonometry

The AP Physics course is designed to be the equivalent of the general physics course usually taken during the first year of college. AP Physics is highly recommended for any student planning to attend college or medical technology school. It reviews and expands upon the main principles of physics while striving to develop the student's conceptual and problem-solving abilities.

SCIENCE ELECTIVES

2033 ENVIRONMENTAL SCIENCE

Credit:1.00

Prerequisite: Teacher recommendation

This course is an in-depth study of the interrelationships of the natural world. A focus will be placed on science as a process with a collaborative inquiry approach that is laboratory centered with a goal of developing students' experience in scientific inquiry and critical thinking skills. An emphasis will be placed on the analysis of current societal and global issues, as alternative solutions and ramifications of human-made and natural environmental problems are explored. A required component of this course is that students participate in the Erie County Conservation District's Envirothon.

2034 ANATOMY AND PHYSIOLOGY

Grades 11-12

Grades 11-12

Credit: 1.00

<u>Prerequisites</u>: A grade of 85% or better in Biology and Chemistry, and proficiency on the Biology Keystone are required.

This is a yearlong course for those interested in a medical related field. Anatomy and Physiology focuses on the intricate relationship between the structures and functions of the human body. In depth studies will range from molecules and cells to a detailed understanding of human body systems that includes diseases and homeostatic mechanisms. Dissection of a cat and other appropriate organs will compliment course work. This course is designed for college preparation, especially for biology and health career majors.

2039 FORENSIC SCIENCE

Grades 11-12

Credit: 1.00

<u>Prerequisite</u>: Chemistry or current enrollment in Chemistry

Forensic Science is a comprehensive subject incorporating a myriad of scientific fields (biology, chemistry, physics, entomology, earth science, and anatomy and physiology) and their application within the context of the criminal justice system. Major topics of this course include processing a crime scene, collecting and preserving evidence, identifying types of physical evidence, organic and inorganic analysis of evidence, hair, fibers, paint, toxicology, arson, ballistics and firearms, serology, DNA, fingerprints, and document analysis. The main focus of this course will be to emphasize the value of crime scene and related evidence, and to familiarize students with the services of the crime laboratory. This course combines basic criminal theory with hand-on laboratory experiments.

3172 CHS PREPARATION FOR BIOLOGY

Grades 10-12

Credit: 1.50

College Credits: 3.00

Prerequisite: A grade of 85% in Biology

This course focuses on a subset of major topics covered in the University of Pittsburgh courses Foundations of Biology I and II (BIOSC 0150, 0160), including a review of chemistry as it applies to biology, the structure and function of macromolecules, the basic structure of cells, energy and cellular respiration, introduction to genetics and molecular biology, and development. While these topics are covered in high school Biology courses, Preparation for Biology delves deeper and applies chemistry concepts to achieve a more complete understanding of Biology

SOCIAL STUDIES

0940 GEOGRAPHY AND ECONOMICS

Grade 9

Credit: 1.00

The geography part of this course is designed to develop and enhance the geography skills of the students. It will build on the geography skills developed in grades 7 and 8. Students will work extensively with map making, building their knowledge of countries, their capitals, culture and topography. Students will also develop their computer skills as they incorporate using the internet into their learning of geography. In the economics part of the course, students will learn basic economic ideas like supply and demand, scarcity and choice, opportunity cost, the Federal Reserve System, etc. Comparisons of various economic systems will also take place.

0941 GEOGRAPHY AND ECONOMICS HONORS*

Grade 9

Credit: 1.00 (Weighted Course)

Prerequisite: A grade of 90% in American History & Geography I and an 85% in English 8

This course covers the same content as Geography, but will require more critical thinking, reading and extended verbal responses.

1040 WORLD HISTORY II

Credit: 1.00

Grade 10

This course is designed to explore the major people, ideas, and events that have shaped the global community throughout history, beginning with the Enlightenment and continuing through modern times. The cultural, political and economic histories of Europe, Asia, Africa, and the Arab world will be studied in detail. This course will allow students to develop an understanding of how the events of the past, including major wars and political movements, influence current events. The knowledge gained in this course will provide students with a solid foundation of modern world history and will serve as a building block for understanding issues facing the world today.

1041 WORLD HISTORY II HONORS*

Grade 10

Credit: 1.00 (Weighted Course)

<u>Prerequisite</u>: A grade of 90% in Geography and an 85% in English 9, or a C or better in Geography Honors and English 9 Honors.

The content for this course is the same as World History II, but greater emphasis will be placed on reading beyond the textbook, extended written responses and class discussion and presentations. A deeper understanding of the "why" of historical events will be required.

1140 AMERICAN HISTORY II

Grade 11

Credit: 1.00

This course continues the journey through our nation's history started in American History I, beginning with the era of industrialization through the modern history of our nation. In accordance with the PA state standards for history, our focus is the major political, economic, cultural and technological developments that define the United States during this time period. Students will gain a basic understanding of the nation's current position in the world by studying the laws, reforms, leaders and events that have shaped it. Emphasis is also placed on the historical thinking, analysis and writing skills that are key to understanding history and serve as a solid foundation for the twelfth grade American Government course.

1240 AMERICAN GOVERNMENT

Grade 12

Credit: 1.00

This course is an introductory course on the essentials of American national government and Pennsylvania state government that satisfies the state requirements for instruction in the constitutions of the United States and the State of Pennsylvania. This course will serve as an introduction to the structure, process and functions of modern American Government. The purpose of this course is to familiarize students with the basic principles of the American system of government and its impact on people and society.

3040 AP GOVERNMENT AND POLITICS*

Grades 11-12

Credit: 1.00 (Weighted Course)

<u>Prerequisite</u>: 85% in most recent English course and successful completion of the ELA Keystone examination

The AP course in United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will learn important facts, concepts, and theories pertaining to U.S. government and politics, understand typical patterns of political processes and behavior and their consequences (including the components of political behavior, the principles used to explain or justify various government structures and procedures, and the political effects of these structures and procedures), be able to analyze and interpret basic data relevant to U.S. government and politics (including data presented in charts, tables, and other formats), be able to critically analyze relevant theories and concepts, apply them appropriately, and develop their connections across the curriculum.

3042 AP U.S. HISTORY*

Grades 11-12

Credit: 1.00 (Weighted Course)

<u>Prerequisite</u>: 85% in most recent English course and successful completion of the ELA Keystone examination.

Advanced Placement U.S. History is the equivalent to a college level American History course. This is a rigorous and challenging course that covers ALL of American History from 1492- 2017. It is intended to provide the scope and level of accomplishment expected in a college setting. The curriculum is determined by the College Board and places an emphasis on reading text and historical documents and completing writing assignments and independent projects along with frequent tests intended to prepare students for the AP U.S. History exam. The course is organized around seven themes and nine time periods with a special focus on historical thinking skills.

SOCIAL STUDIES ELECTIVES

2040 PSYCHOLOGY

Credit: 1.00

Grades 11-12

This course is a yearlong introduction to the science of psychology. Students will explore the brain and how it works, the major theories of personality development, learning, psychological research, abnormal psychology and therapy.

2041 ANCIENT GREECE TO RENAISSANCE

Grades 11-12

Credit: 0.50

This course examines the genesis of the ancient civilizations that centered on the Mediterranean, their collapse and replacement by feudal kingdoms, and the origins of the great powers of 20th Century Europe. Particular attention is devoted to understanding the dynamics of long-term success and failure, and the interaction of religious and political institutions.

2042 MEDIEVAL EUROPE

Grades 11-12

Credit: 0.50

This course plots Western European History between the collapse of the Roman Empire and the 14th Century. Featured topics include the Carolingians, the Crusades, the dramatic conflict of Popes and Kings and the origins of modern warfare.

2043 THE 60's, 70's & 80's

Grades 10-12

Credit: 0.50

This is a semester-long course. It will be a detailed analysis of major events from 1960 to the end of the 1980's. Among the topics are: Kennedy's assassination, the Vietnam War and the social unrest of the 1960's, The Great Society, The Civil Rights Movement, Nixon's Presidency and Watergate, The Iran Hostage Crisis and The Reagan Administration. Students will make connections between these events and the country today.

2044 CRIMINAL JUSTICE

Grades 11-12

Credit: 1.00

This course is designed to give students a background into the components of the Criminal Justice system. This course will begin with the Constitution as the foundation of law in the United States followed by the concepts of civil and criminal law. Students will delve into crime in America and how our justice system functions, including an indepth analysis of each step of the process. There will be an emphasis on evaluating current issues facing Criminal Justice as well as women and minorities in the system.

2045 HEROES & VILLAINS IN HISTORY

Grades 10-12

Credit: 0.50

This is a semester-long course. It will analyze how and why historical figures are classified as either heroes or villains. Students will explore the lives of various people who have affected history. They will evaluate their impact on history and determine why history judges them the way it does.

2046 WOMEN'S STUDIES

Grades 11-12

Credit: 0.50

The main focus of this course will be women and their societal advancement through American History. Discussion of the status of women in a more global perspective will occur. Women's Studies examine the experiences and contributions of diverse groups of women in American society. This course will provide knowledge about the social role of women and their involvement in areas such as health, history, and political activism. The course will also provide knowledge about gender stereotypes and how this affects the learning process

2047 LOCAL AND PA HISTORY

Grades 11-12

Credit: 0.50

The main focus of this course is to provide students with a historical, cultural, and geographical understanding of their local community. The course will also examine the role their society has played in the greater development of Pennsylvania's social, political, historical, and cultural development as the "keystone" state. This course will include several specific topics of study including: early history, the five themes of PA geography, topography, early founders, Native American contributions, early settlements, indigenous habitats, conflicts, regional societies, the History of PA in the 20th century, PA recreation and entertainment, and current topics.

2048 SOCIOLOGY

Grades 11-12

Credit: 0.50

Sociology is the study of human behavior in group situations. Its focus is on the dynamics of group behavior and on the interactions of individuals in groups. This course illustrates how the groups, or social structures, that one belongs

to have a profound influence on the way you think, feel, and act. This course covers basic sociological theory and analytical tools and shows their relationship to other behavioral science disciplines, such as anthropology and psychology. The class will examine the effect of social structure, practices, and institutions upon the individual in everyday life. Topics will include, but are not limited to culture, socialization, and society.

*This is changing from a full year course to a semester elective.

2049 MASS MEDIA EVOLUTION AND SOCIAL INFLUENCE

Grades 11-12

Credit: 0.50

This course is dedicated to investigating mass media in American society, its nature and role in our lives, and its relation to American notions around race, class and gender, and how media influences the behavior of social groups. This course will heavily stress the ability to engage critically with the products of mass media from news' broadcasts to advertising, from television to the Internet. We will explore how the media influences the behavior of social groups in the United States.

3041 AP PSYCHOLOGY*

Grades 11-12

Credit: 1.00 (Weighted Course)

Advanced Placement Psychology is the equivalent to a college level introductory psychology course. This is a rigorous and demanding course, intended to provide the scope and level of accomplishment expected in a college setting. The curriculum for this course is determined by the College Board and places an emphasis on essential readings, writing assignments, independent projects and frequent tests intended to prepare students for the AP Psychology exam. Fifteen units are covered throughout the course with topics ranging from various subfields in psychology and research methods through psychological disorders and therapy.

3141 CHS THEORIES OF LEADERSHIP

Grades 10-12

Credit: 1.00

College Credits: 3.00

This course is designed to acquaint students with multiple theories and practices associated with effective leadership all while answering the question, "What is leadership?" The course covers various theories, analyzes modern day views, describes relationships, analyzes current events, discusses necessary skills for effective leadership and more. This engaging and relevant course is designed to be personal and applicable to all students' development and everyday life and also prepare them for the future. The course goals will be accomplished using guest speakers, community services, class discussions, book studies, video presentations, current events and much more. Students can earn college credits for this course.

TECHNOLOGY EDUCATION

0982 FOUNDATIONS OF TECHNOLOGY

Grades 9-12

Credit: 0.50

This course is designed to give students a fundamental experience in all components of Industrial Arts Education. This course will serve as the prerequisite for all other technology education courses. Students will learn basic skills and knowledge in the STEM.

2077 COMPUTER PROGRAMMING & CODING

Grades 11-12

Credit: 0.50

This course has been designed to teach students with little or no coding experience the basics of computer programming. Students will learn skills that will help them create programs, applications, and web pages. It will also enhance their problem-solving skills through trial and error during the process of running programs as well as enhance their logical reasoning abilities.

2081 ENTERPRISE Grades 11-12

Credit: 1.00

<u>Prerequisite</u>: Foundations of Technology and CADD or Material Processing or Instructor Recommendation

This course will help "put it all together". Students will study various technical careers, experience co-operative learning within a work environment, develop good work habits, and build a strong foundation in various technical areas which will enable them to become on the job problem solvers and adaptable to an ever changing technological society. Through work experience, the mission of this course is to help students develop the necessary skills, attitudes and abilities necessary to be successful in the workplace. Students will form a company to manufacture products ordered from customers. After receiving job descriptions for positions available, students will decide which job(s) they wish to interview for. The students will design, produce and distribute their product. Students will change jobs periodically throughout the manufacturing of products to enable them to receive a well-rounded experience.

2082 COMPUTER AIDED DRAFING AND DESIGN (CADD)

Grades 9-12

Credit: 1.00

This course is designed for students to learn the fundamentals of technical drawing through Computer Aided Drafting and Design (CADD). Students will learn the basics of measuring, 3-D drawing, and 3-D modeling on the computer. The second part of this course shows students how to use their acquired skills to solve challenges.

2083 GENERAL REPAIR & MAINTENANCE

Grades 9-12

Credit: 0.50

Students receive real practice on how to do basic home and other maintenance and repairs. Topics studied will include electrical, plumbing, construction, power equipment, and more. Students will learn about the topic and practice it, leaving the course with experience and a portfolio to reference in the future.

2084 MATERIAL PROCESSING

Grades 10-12

Credit: 0.50

Prerequisite: Foundations of Technology or CADD

Students focus on industrial/technical materials and processes as they fabricate usable products and conduct experiments. Learning experiences include career analysis as well as the use of tools and equipment related to analysis, testing, and processing of metals, plastics, woods, ceramics, and composite materials. This single period laboratory course is recommended for students interested in technical careers and others wishing to improve their consumer knowledge and technological literacy.

2085 ROBOTICS Grades 11-12

Credit: 1.00

Prerequisite: Foundations of Technology and CADD or Material Processing or Instructor

Recommendation

Students will study robotics and its function in society. Students will also practice building, programming, and competing with robots in class and against other schools. Projects that are created within this course are also worked on during other times including tutorial and after school along with events that take place on weekends.

2086 INTRO TO ENGINEERING

Grades 10-12

Credit: 0.50

<u>Prerequisite</u>: Foundations of Technology and CADD or Material Processing or nstructor Recommendation Students will study what it takes to be an engineer, what an engineer does, and the different types of engineers. Students will use science, math, and problem-solving skills to face engineering challenges.

2087 COMPUTER-AIDED MANUFACTURING

Grades 10-12

Credit: 0.50

Prerequisite: CADD

Students will study what manufacturing is and how computers make it better. Students will practice CAM by taking computer creations and designs to machines to physically create inventions.

2088 RESEARCH & DESIGN

Grades 11-12

Credit: 0.50

<u>Prerequisite</u>: Foundations of Technology and CADD or Material Processing or Instructor Recommendation Students will use their skills from all of the other technology and engineering courses to research, design, and build their own project(s). The student will carefully navigate through the entire design process and document it completely. The end result will be a completed and functioning project with a portfolio detailing its creation.

2088A WOOD ADV Grade 11-12

<u>Prerequisite</u>: Foundations of Technology and CADD or Material Processing or Instructor Recommendation

Advanced wood is an in-depth study of woodworking techniques. The purpose is to allow a junior or senior student who has completed most technology education electives to specialize in a woodworking area of his/her choice. Wood Technology I & II precedes this course. Math aptitude and competency is also required. All students must have instructor recommendation.

2089 ADVANCED ROBOTICS

Credit: 1.00

Prerequisite: Robotics

In advanced robotics, students are the leaders of various design teams that work to build various competition robots and challenges. This course runs with the regular robotics course and the advanced students will focus on the leadership and management of robotic teams in addition to the regular designing, programming, and construction.

3170 CHS PROGRAMMING IN PYTHON*

Grades 11-12

Grades 11-12

Credit: 1.00 (Weighted Course)

Prerequisite: Grade of 85% or higher in either Algebra I or Algebra II

Intro to Computer Programming with Python will give you the tools you need to think like a computer scientist. We will utilize the Python programming language to introduce a wide range of coding concepts. Python provides a way to develop code that is easy to create and understand. Participants of this course will master essential programming techniques including basic graphics, decisions, loops, lists, and files, as well as event-based programming. The course will also develop computational thinking, consider the global impact of computing on society, and research current topics in technology and computing. Students will have the opportunity to earn college credit for the course.

STATEWIDE HIGH SCHOOL GRADUATION REQUIREMENT GUIDANCE ACT 158 of 2018

Introduction and Background:

Act 158 of 2018 (Act 158), which was signed into law by Governor Tom Wolf on October 24, 2018, shifts Pennsylvania's reliance on high stakes testing as a graduation requirement to provide alternatives for high school students to demonstrate readiness for postsecondary success. Formerly, Act 158, in conjunction with Act 6 of 2017 (Act 6), expands the options for students to demonstrate postsecondary readiness through four additional pathways that more fully illustrate college, career, and community readiness. The statewide graduation requirement outlines in Act 6 and Act 158 takes effect for the graduating class of 2022. Keystone Exams will continue as the statewide assessment that Pennsylvania uses to comply with accountability requirements set forth in the federal Every Student Succeeds Act (ESSA).

Requirements:

For students graduating in 2022 and beyond, the following options exist to meet the statewide graduation requirement:

- Keystone Proficiency Pathway: Scoring proficient or advanced on each Keystone Exam- Algebra I, Literature, Biology.
- Keystone Composite Pathway: Earning a satisfactory composite score on the Algebra I, Literature, and Biology Keystone Exams (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 to academic content areas associated with each Keystone Exam on which the student did not achieve proficiency

Established cut scores for alternate assessments and guidelines to define pathway evidence will be released in the 2019-2020 school year.

Advanced Placement Program (AP) - Qualified score on the course-related Advanced Placement Exam. For AP Literature or AP Biology.

Approved Industry-Based Competency Assessment - A NOCTI exam, NIMS assessment or other industry-based competency assessment identified by the Secretary of Education.

• **NOCTI Exam-**A National Occupational Competency Testing Institute exam.

Postsecondary Course - A course in which a secondary student is enrolled and upon successful completion, postsecondary credit is earned in Literature and Biology.

Please contact the counseling office with any question regarding your child's pathway to graduation.

