

Octorara Area Junior-Senior High School



Program of Studies **2022-2023**

Career Pathways

Business, Marketing, Finance
& Information Technology



Arts & Communication

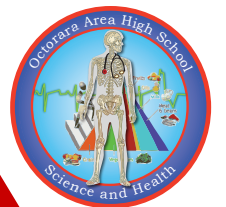
Social & Human Services



Engineering, Industrial
Technology & Agriculture



Science & Health



MAXIMIZING OPPORTUNITIES FOR SUCCESS

Career Pathways

Career Pathways categorize fields of work into broad clusters with common themes. Octorara Area Junior-Senior High School's five Career Pathways are based on the 16 career clusters adopted by the PA Department of Labor and Industry and the PA Department of Education. After examining aptitudes, abilities, and interests, students are encouraged to take courses in high school to pursue a Career Pathway that is right for them.

The Career Pathways at Octorara Area Junior-Senior High School are:



Business, Marketing, Finance & Information Technology

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



Arts & Communication

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



Social & Human Services

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



Engineering, Industrial Technology & Agriculture

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



Science & Health

Designed to cultivate students' interests in the life, physical, and behavioral sciences. Also designed for the planning, managing, and providing of therapeutic services, diagnostic services, health information, and biochemistry research development.

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Steps to finding your Career Pathway . . .

Changing jobs or career paths can be an exciting adventure which can lead you to new and rewarding work opportunities. It can also be confusing and frustrating if you do not know where to begin. The 2022-2023 Program of Studies will help students choose a career pathway using six steps. Here is a simple self-assessment you can take to help determine which career might be a good fit for you. This information can be used to help clarify your Career Pathway. Also consider your skills, talents, aptitudes, and abilities.

STEP 1:

Take the RIASEC Inventory. In each section, check the items that best describe you. Then add up the number of items you checked under each letter.

R

Are You?		Can You?		Do You Like To?	
<input type="checkbox"/>	Practical	<input type="checkbox"/>	Fix electronic equipment	<input type="checkbox"/>	Hunt or fish
<input type="checkbox"/>	Athletic	<input type="checkbox"/>	Solve mechanical problems	<input type="checkbox"/>	Work outdoors
<input type="checkbox"/>	Reliable	<input type="checkbox"/>	Start a campfire	<input type="checkbox"/>	Be physically active
<input type="checkbox"/>	Mechanically inclined	<input type="checkbox"/>	Play a sport	<input type="checkbox"/>	Use your hands
<input type="checkbox"/>	A nature lover	<input type="checkbox"/>	Read a blueprint	<input type="checkbox"/>	Build or repair things
<input type="checkbox"/>	Shy or modest	<input type="checkbox"/>	Work on cars	<input type="checkbox"/>	Operate tools & machinery
					R Total =

I

Are You?		Can You?		Do You Like To?	
<input type="checkbox"/>	Curious	<input type="checkbox"/>	Think abstractly	<input type="checkbox"/>	Use a telescope
<input type="checkbox"/>	Analytical	<input type="checkbox"/>	Solve math problems	<input type="checkbox"/>	Use computers
<input type="checkbox"/>	Scientific	<input type="checkbox"/>	Conduct research	<input type="checkbox"/>	Work independently
<input type="checkbox"/>	Observant	<input type="checkbox"/>	Do complex calculations	<input type="checkbox"/>	Play chess
<input type="checkbox"/>	Precise	<input type="checkbox"/>	Perform laboratory work	<input type="checkbox"/>	Read scientific magazines
<input type="checkbox"/>	Self-motivated	<input type="checkbox"/>	Analyze data	<input type="checkbox"/>	Experiment or observe events
					I Total =

A

Are You?		Can You?		Do You Like To?	
<input type="checkbox"/>	Sensitive or emotional	<input type="checkbox"/>	Work independently	<input type="checkbox"/>	Collect artwork
<input type="checkbox"/>	Creative	<input type="checkbox"/>	Sketch, draw, paint	<input type="checkbox"/>	Attend concerts or plays
<input type="checkbox"/>	Intuitive	<input type="checkbox"/>	Play a musical instrument	<input type="checkbox"/>	Read fiction, plays, poetry
<input type="checkbox"/>	Imaginative	<input type="checkbox"/>	Write stories or poems	<input type="checkbox"/>	Work on crafts
<input type="checkbox"/>	Independent	<input type="checkbox"/>	Act or perform	<input type="checkbox"/>	Take photographs
<input type="checkbox"/>	Romantic	<input type="checkbox"/>	Dance	<input type="checkbox"/>	Decorate
					A Total =

S

Are You?		Can You?		Do You Like To?	
	Friendly or cheerful		Teach others		Be the center of attention
	Helpful		Offer others guidance		Organize parties
	Idealistic		Lead a group discussion		Attend meetings
	Generous		Mediate disputes		Do volunteer work
	Cooperative		Plan or supervise an activity		Babysit or work with children
	Responsible		Work with others		Play team sports
					S Total =

E

Are You?		Can You?		Do You Like To?	
	Self-Confident		Entertain guests		Make decisions affecting others
	Ambitious		Convince others to see things your way		Belong to clubs
	Sociable		Sell things or promote ideas		Win awards
	Persuasive		Give talks and speeches		Run a political campaign
	Witty		Manage people or products		Meet important people
	Argumentative		Lead a group		Start or lead a social organization
					E Total =

C

Are You?		Can You?		Do You Like To?	
	Orderly		Work well within a system		Play board games
	Accurate		Make charts and graphs		Collect items
	Careful		Keep accurate records		Work with numbers
	Methodical		Use a computer		Build models
	Conscientious		Write a business report		Be responsible for details
	Efficient		Operate office machines		Work on home improvement projects
					C Total =

Note: Dr. John Holland's RIASEC model of occupations is the basis of most contemporary career inventories. Portions of this inventory are taken from the *26th Edition Pennsylvania Career Guide*.

STEP 2:

Transfer your letter totals here:

R = _____ I = _____ A = _____ S = _____ E = _____ C = _____

Write the three letter RIASEC code beginning with the highest number you had.

If you had a “tie” in the numbers, mix them up and see what combinations you come up with to create alternative codes.

Your RIASEC Code: _____

Alternative Codes: _____, _____, _____

STEP 3:

Below is a list of the RIASEC categories. Read through the ones that are found within your RIASEC code. Also take note of the Career Pathways that are related to your categories.

REALISTIC – Realistic occupations frequently involve work activities that include practical, hands-on problems and solutions. They often deal with plants, animals and real-world materials like wood, tools, and machinery. Many of the occupations require working outside and do not involve a lot of paperwork or working closely with others.

Related Pathways:

Business, Marketing, Finance, and Information Technology
Engineering, Industrial Technology, and Agriculture
Science and Health

INVESTIGATIVE – Investigative occupations frequently involve working with ideas and require an extensive amount of thinking. These occupations can involve searching for facts and figuring out problems mentally.

Related Pathways:

Business, Marketing, Finance, and Information Technology
Engineering, Industrial Technology, and Agriculture
Science and Health

ARTISTIC – Artistic occupations frequently involve working with forms, designs and patterns. They often require self-expression, and the work can be done without following a clear set of rules.

Related Pathways:

Arts and Communication
Social and Human Services

SOCIAL – Social occupations frequently involve working with, communicating with, and teaching people. These occupations often involve helping or providing service to others.

Related Pathways:

Business, Marketing, Finance, and Information Technology
Social and Human Services
Science and Health

ENTERPRISING – Enterprising occupations frequently involve starting up and carrying out projects. These occupations can involve leading people and making many decisions. Sometimes they require risk taking and often deal with business.

Related Pathways:

Business, Marketing, Finance, and Information Technology
Social and Human Services

CONVENTIONAL – Conventional occupations frequently involve following set procedures and routines. These occupations can include working with data and details rather than ideas. Usually there is a clear line of authority to follow.

Related Pathways:

Business, Marketing, Finance, and Information Technology
Arts and Communication
Social and Human Services

Source: US Department of Labor Website: O*NET ONLINE

STEP 4:

Find the list of sample occupations for each Career Pathway and look at the occupations that may be of interest to you. Sample occupations for each Career Pathway are found on the following pages:

Page 6 = Business, Marketing, Finance & Information Technology

Page 8 = Arts & Communication

Page 10 = Social & Human Services

Page 12 = Engineering, Industrial Technology & Agriculture

Page 14 = Science & Health

STEP 5:

Review the Career Pathway pages found on page 7, 9, 11, 13, and 15 that list suggested electives within your chosen pathway. Reference this information when selecting your courses for next year.

STEP 6:

Use the resources on page 59 to do research about your selected occupation and Career Pathway. Shadow at a work site that has an occupation that interests you. Talk to your parents and others who are currently working in the field. Find out what education or training you need after high school to achieve your career goals.

Business, Marketing, Finance & Information Technology Pathway



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

SAMPLE OCCUPATIONS

Occupation	CERT	2-YEAR	4-YEAR	GRAD	RIASEC CODE
Accountant			X		CE
Auditor			X		CE
Business Teacher			X	X	SAI
Chief Executive			X	X	ECS
Computer Software Engineer			X		IRC
Computer Support Specialist	X	X	X		ICR
Computer System Analyst			X		ICR
Cost Estimator			X		CE
Credit Checker		X	X		CE
Customer Service Representative		X	X		CES
Economist			X	X	IEC
Financial Analyst			X		ICE
Financial Manager			X		ECS
General and Operations Manager			X		ERC
Insurance Sales Agent		X	X		ESC
Lawyer			X	X	EC
Loan Counselor		X	X		ESC
Marketing Manager			X		EC
Network & Computer Systems Administrator			X		ECI
Operations Research Analyst			X		ICR
Personal Financial Advisor			X		SEC
Post-Secondary Education Administrator			X	X	ESC
Public Relations Specialist			X		EAS
Purchasing Agent & Buyer	X	X	X		ECR
Sales Agent & Representative	X	X	X		ECS
Sales Manager			X		EC
Treasurer and Controller			X	X	EC

Legend: CERT = On the Job or Certificate Program | 2-YEAR = Community College or Trade School
 4-YEAR = 4-Year College | GRAD = Graduate School

Business, Marketing, Finance & Information Technology Pathway

ELECTIVES

Please Note: Before selecting any elective, be sure all prerequisites have been met.
Check the course description pages of this booklet for elective requirements.

9th

10th

11th

12th

Spanish I or II French I or II	Spanish II or III French II or III	Spanish III or Honors Spanish IV French III or Honors French IV	Honors Spanish IV or V Honors French IV or V
Public Speaking	Public Speaking AP Psychology	Public Speaking Psychology AP Psychology	Creative Writing Public Speaking Psychology AP Psychology Calculus
Intro to Business	Intro to Business Personal Finance	Personal Finance	Accounting I Economics Business & Personal Law
Accounting I	Accounting I	Accounting I Economics Business & Personal Law Dual Credit Honors Foundations of Business Dual Credit Honors Financial Accounting	Accounting I Economics Business & Personal Law Dual Credit Honors Foundations of Business Dual Credit Honors Financial Accounting
Computer Science Principles Intro to Computer Science - Python Coding	Computer Science Principles Intro to Computer Science - Python Coding Intro to Drone Operations	Computer Science Principles Intro to Computer Science - Python Coding Intro to Drone Operations	Computer Science Principles Intro to Computer Science - Python Coding Intro to Drone Operations
Photography I	Photography I Photography II/III	Photography I Photography II/III	Photography I Photography II/III
Graphic Design & Printing I	Graphic Design & Printing I Graphic Design & Printing II/III	Graphic Design & Printing I Graphic Design & Printing II/III	Graphic Design & Printing I Graphic Design & Printing II/III
Illustration/Graphic Design I Illustration/Graphic Design II	Illustration/Graphic Design I Illustration/Graphic Design II	Illustration/Graphic Design I Illustration/Graphic Design II	Illustration/Graphic Design I Illustration/Graphic Design II
Broadcast Communications	Broadcast Communications FFA Leadership/Supervised Ag Exp	Broadcast Communications FFA Leadership/Supervised Ag Exp	Broadcast Communications FFA Leadership/Supervised Ag Exp
I.T. Work Experience	I.T. Work Experience TCHS	I.T. Work Experience TCHS Career Pathways Work Experience	I.T. Work Experience TCHS Career Pathways Work Experience Diversified Occupations Experience (D.O.)
	OACTEP - Business Academy OACTEP - Computer Technology	OACTEP - Business Academy OACTEP - Computer Technology	OACTEP - Business Academy OACTEP - Computer Technology

Arts and Communication Pathway



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

SAMPLE OCCUPATIONS

Occupation	CERT	2-YEAR	4-YEAR	GRAD	RIASEC CODE
Air Traffic Controller	X	X	X		CRE
Art Director			X		AE
Art, Drama, and Music Teacher (Post-Secondary)			X	X	ASI
Audio-Visual and Media Arts Specialist	X	X	X		CS
Audio-Visual Collections Specialist			X	X	CS
Communications Teacher			X	X	SAI
Craft Artist		X	X		AE
Desktop Publisher	X	X	X		RA
Elementary School Teacher			X		SAI
Emergency Management Specialist			X		SER
English Language and Literature Teacher			X	X	ASI
Film and Video Editor	X	X	X		A
Fine Artist (Painter, Sculptor, and Illustrator)	X	X	X		AR
Graphic Designer		X	X		AE
Historian			X	X	IA
Journalist			X		AIE
Model	X	X			AES
Multi-Media Artist and Animator			X		AE
Museum Technician and Conservator	X	X	X		AR
Music Director			X		ASE
Photographer	X	X	X		AR
Police, Fire, and Ambulance Dispatcher	X	X			SCR
Pre-press Technician	X	X			RC
Printing Machine Operator	X	X			RC
Public Relations Manager			X		EAS
Recreation Therapist			X		SAR
Set and Exhibit Designer			X		AR
Social Science Teacher			X		ESR

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Arts and Communication Pathway

ELECTIVES

Please Note: Before selecting any elective, be sure all prerequisites have been met.
Check the course description pages of this booklet for elective requirements.

9th	10th	11th	12th
Spanish I or II French I or II Public Speaking	Spanish II or III French II or III Public Speaking	Spanish III or Honors Spanish IV French III or Honors French IV Public Speaking	Honors Spanish IV or V Honors French IV or V Public Speaking Creative Writing
Intro to Business	Intro to Business Personal Finance AP Psychology	Personal Finance Psychology AP Psychology	Psychology AP Psychology Intro to Philosophy
Chorus Band	Chorus Band	Chorus Band	Chorus Band
Solo & Chamber Performance Guitar I Guitar II Piano Lab Music Appreciation	Solo & Chamber Performance Guitar I Guitar II Piano Lab Music Appreciation Intro to Music Theory	Solo & Chamber Performance Guitar I Guitar II Piano Lab Music Appreciation Intro to Music Theory	Solo & Chamber Performance Guitar I Guitar II Piano Lab Music Appreciation Intro to Music Theory
Broadcast Communications Theatre Intro to Art Art Major I	Broadcast Communications Theatre Intro to Art Art Major I Art Major II Pop Art	Broadcast Communications Theatre Intro to Art Art Major I Art Major II Pop Art	Broadcast Communications Theatre Intro to Art Art Major I Art Major II Pop Art
Illustration/Graphic Design I Illustration/Graphic Design II Ceramics I Ceramics II	Illustration/Graphic Design I Illustration/Graphic Design II Ceramics I Ceramics II Ceramics III	AP Studio Art (2-D, 3-D, Drawing) Illustration/Graphic Design I Illustration/Graphic Design II Ceramics I Ceramics II Ceramics III	AP Studio Art (2-D, 3-D, Drawing) Illustration/Graphic Design I Illustration/Graphic Design II Ceramics I Ceramics II Ceramics III
Photography I	Photography I Photography II/III	Ceramics - Wheel Throwing Studio Studio Art/Fine Arts Studio Art/Graphic Design Photography I Photography II/III	Ceramics - Wheel Throwing Studio Studio Art/Fine Arts Studio Art/Graphic Design Photography I Photography II/III
Graphic Design & Printing I	Graphic Design & Printing I Graphic Design & Printing II/III TCHS	Graphic Design & Printing I Graphic Design & Printing II/III TCHS Career Pathways Work Experience	Graphic Design & Printing I Graphic Design & Printing II/III TCHS Career Pathways Work Experience Diversified Occupations Experience (D.O.)
	OACTEP - Graphic Design & Illustration	OACTEP - Graphic Design & Illustration	OACTEP - Graphic Design & Illustration

Social and Human Services Pathway



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

SAMPLE OCCUPATIONS

Occupation	CERT	2-YEAR	4-YEAR	GRAD	RIASEC CODE
Child Care Worker		X	X		SA
Child, Family, and School Social Worker			X	X	S
Counseling Psychologist			X	X	SIA
Education Administrator (Post-Secondary)			X	X	ESC
Educational and Vocational Counselor			X	X	SA
Elementary & Secondary School Administrator			X	X	SEI
English as a Second Language (ESL) Teacher			X		SAI
Food and Nutrition Worker	X	X			RC
Human Resource Manager and Training Specialist			X		ESC
Kindergarten Teacher			X		SA
Librarian			X	X	AC
Local, State, and Federal Employee			X	X	SEC
Marriage and Family Therapist			X	X	SAR
Math, Science, Foreign Language & FACS Teacher			X		SAI
Medical and Health Services Manager			X	X	ES
Mental Health and Substance Abuse Counselor and Worker			X	X	SI
Mental Health Counselor			X	X	SI
Pre-School and Child Care Center Administrator			X		SEI
Pre-School Teacher	X	X	X		SA
Rehabilitation Counselor			X	X	SI
Social and Human Service Assistant	X	X	X		SC
Social Scientist			X		SEA
Sociologist			X	X	IAS
Special Education Teacher (K-12)			X		SA
Speech-Language Pathologist and Teacher			X	X	SI
Teacher Assistant	X	X	X		SC

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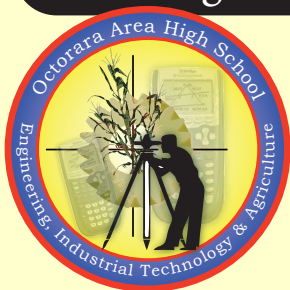
Social and Human Services Pathway

ELECTIVES

Please Note: Before selecting any elective, be sure all prerequisites have been met.
Check the course description pages of this booklet for elective requirements.

9th	10th	11th	12th
Spanish I or II	Spanish II or III	Spanish III or Honors Spanish IV	Honors Spanish IV or V
French I or II	French II or III	French III or Honors French IV	Honors French IV or V
Public Speaking	Public Speaking	Public Speaking	Public Speaking
Broadcast Communications	Broadcast Communications	Broadcast Communications	Broadcast Communications
		Statistics	Creative Writing
		AP Statistics	Statistics
		Psychology	AP Statistics
	AP Psychology	AP Psychology	Psychology
			AP Psychology
Intro to Business	Intro to Business		Intro to Philosophy
	Personal Finance	Economics	Economics
		Personal Finance	
		Business and Personal Law	Business and Personal Law
		Dual Credit Honors Foundations of Business	Dual Credit Honors Foundations of Business
	Strength & Conditioning	Strength & Conditioning	Strength & Conditioning
	Advanced Physical Education	Advanced Physical Education	Advanced Physical Education
	Yoga	Yoga	Yoga
FACS	FACS	FACS	FACS
Learning to Cook	Learning to Cook	Learning to Cook	Learning to Cook
	Food & Nutrition	Food & Nutrition	Food & Nutrition
Early Childhood Development	Early Childhood Development	Early Childhood Development	Early Childhood Development
	TCHS	TCHS	TCHS
		Career Pathways Work Experience	Career Pathways Work Experience
	OACTEP - Culinary and Baking/Pastry Arts	OACTEP - Culinary and Baking/Pastry Arts	Diversified Occupations Experience (D.O.)
	OACTEP - Child Care Education	OACTEP - Child Care Education	OACTEP - Culinary and Baking/Pastry Arts
	OACTEP - Homeland Security & Protective Services	OACTEP - Homeland Security & Protective Services	OACTEP - Child Care Education
			OACTEP - Homeland Security & Protective Services

Engineering, Industrial Technology & Agriculture Pathway



This Pathway is designed to cultivate students' interests, awareness and application to areas related to technologies necessary to design, develop, install or maintain physical or agricultural systems.

SAMPLE OCCUPATIONS

Occupation	CERT	2-YEAR	4-YEAR	GRAD	RIASEC CODE
Agriculture Engineer			X		IR
Agriculture Equipment Operator		X	X		R
Agriculture Inspector			X		RIC
Biomedical Engineer			X		IRE
Carpenter and Cabinet Maker	X	X			R
Civil Engineer & Technician		X	X		RIC
Computer Software Engineer			X		IRC
Construction Manager	X	X	X		ERC
Consumer Information Specialist			X		EAS
Crop and Livestock Manager			X		ERC
Electrical and Electronics Repair Technician	X	X			RIC
Electrical Engineer & Technician	X	X	X		RI
Electronics Engineer & Technician	X	X	X		RI
Environment Engineer & Technician	X	X	X		IR
Farm & Home Management Advisor		X	X		SRE
Farm Worker and Laborer	X	X			RE
General Maintenance and Repair Worker	X	X	X		RC
Heating, Ventilation, and Air Conditioning (HVAC)	X	X			RC
Heavy-Truck and Tractor Trailer Driver	X				RC
Immigration and Customs Inspector			X		CER
Industrial Engineer & Technician	X	X	X		IC
Industrial Machinery Mechanic	X	X			R
Industrial Safety and Health Engineer			X		IE
Mechanical Drafter		X	X		RCI
Mechanical Engineer & Technician	X	X	X		RI
Metal and Sheetmetal Worker	X	X			R
Soil and Water Conservation			X		IRC
Surveyor	X	X			IE
Veterinarian and Veterinary Technician	X	X	X		IRS
Vocational Education Teacher			X		SAI
Welder, Cutter, Solderer and Brazier	X	X			RC

Legend: CERT = On the Job or Certificate Program | **2-YEAR** = Community College or Trade School
4-YEAR = 4-Year College | **GRAD** = Graduate School

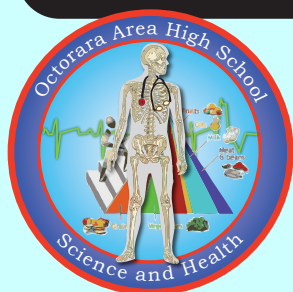
Engineering, Industrial Technology & Agriculture Pathway

ELECTIVES

Please Note: Before selecting any elective, be sure all prerequisites have been met.
Check the course description pages of this booklet for elective requirements.

9th	10th	11th	12th
Spanish I or II	Spanish II or III	Spanish III or Honors Spanish IV	Honors Spanish IV or V
French I or II	French II or III	French III or Honors French IV	Honors French IV or V
Intro to Technology	Intro to Technology Woodworking Tech I	Woodworking Tech I Woodworking Tech II/III	Woodworking Tech I Woodworking Tech II/III
	Architectural Drafting I	Architectural Drafting I Architectural Drafting II/III	Architectural Drafting I Architectural Drafting II/III
	CAD & Engineering I	CAD & Engineering I CAD & Engineering II/III	CAD & Engineering I CAD & Engineering II/III
Computer Science Principles	Computer Science Principles	Computer Science Principles	Computer Science Principles
Intro to Computer Science - Python Coding	Intro to Computer Science - Python Coding	Intro to Computer Science - Python Coding	Intro to Computer Science - Python Coding
	Intro to Drone Operations	Intro to Drone Operations	Intro to Drone Operations
		Plant Science	Plant Science
		Animal Science	Animal Science
	FFA Leadership/Supervised Ag Exp	FFA Leadership/Supervised Ag Exp	FFA Leadership/Supervised Ag Exp
Public Speaking	Public Speaking	Public Speaking	Public Speaking
	Physics	Physics	Physics
	Earth & Space Science	Earth & Space Science	Earth & Space Science
	Chemistry	Chemistry	Chemistry
Intro to Business	Intro to Business	Business & Personal Law	Business & Personal Law
		Dual Credit Honors Foundations of Business	Dual Credit Honors Foundations of Business
	Personal Finance	Personal Finance	
	TCHS	TCHS	TCHS
I.T. Work Experience	I.T. Work Experience	I.T. Work Experience	I.T. Work Experience
		Career Pathways Work Experience	Career Pathways Work Experience
			Diversified Occupations Experience (D.O.)
	OACTEP - Animal & Plant Science Tech	OACTEP - Animal & Plant Science Tech	OACTEP - Animal & Plant Science Tech
	OACTEP - Mechanical Systems Tech	OACTEP - Mechanical Systems Tech	OACTEP - Mechanical Systems Tech
	OACTEP - Woodworking Tech	OACTEP - Woodworking Tech	OACTEP - Woodworking Tech
	OACTEP - Engineering Tech	OACTEP - Engineering Tech	OACTEP - Engineering Tech
	OACTEP - Computer Technology	OACTEP - Computer Technology	OACTEP - Computer Technology

Science and Health Pathway



This Pathway is designed to cultivate students' interests in the life, physical, and behavioral sciences. It is also designed for the planning, managing, and providing of therapeutic services, diagnostic services, health information and biochemistry research development.

SAMPLE OCCUPATIONS

Occupation	CERT	2-YEAR	4-YEAR	GRAD	RIASEC CODE
Agriculture Science Teacher			X		SAI
Cardiovascular Technician	X	X	X		IRS
Computer Science Teacher			X		IC
Dental Hygienist	X	X	X		SC
Dental Laboratory Technician	X	X	X		RIC
Dentist			X	X	IRS
Food Science Technician	X	X	X		RIC
Health Educator			X		SEI
Laboratory Technician		X	X		RIC
Licensed Practical Nurse (LPN)		X	X		SRI
Life, Physical, and Social Science Technician			X		EIE
Math and Science Teacher (all levels)			X	X	ISC
Medical Doctor (Generalist & Specialist)			X	X	IR
Medical Librarian			X	X	IRS
Medical Scientist			X	X	IRS
Medical Secretary & Medical Records Technician		X	X		C
Medical Social Worker			X	X	SI
Medical Transcriptionist		X	X		CSE
Mental Health and Substance Abuse Worker			X	X	SI
Nuclear Medicine & X-Ray Technician		X	X		IR
Nursing Assistant	X	X			SR
Occupational Health and Safety Specialist			X		SEI
Occupational Therapist			X	X	SR
Personal and Home Health Aide		X	X		SR
Pharmacist and Pharmacy Technician		X	X		CR
Physical Therapist and PT Assistant			X	X	SRI
Physician Assistant			X	X	IS
Radiology Technologist & Technician		X	X		RIS
Registered Nurse (RN)		X	X		SI
Respiratory Therapist		X	X		IRS
Soil and Plant Scientist			X	X	IR
Speech and Language Pathologist			X	X	SI
Statistician			X	X	IC

Legend: CERT = On the Job or Certificate Program | **2-YEAR** = Community College or Trade School
4-YEAR = 4-Year College | **GRAD** = Graduate School

Science and Health Pathway

ELECTIVES

Please Note: Before selecting any elective, be sure all prerequisites have been met.
Check the course description pages of this booklet for elective requirements.

9th

10th

11th

12th

Spanish I or II French I or II Public Speaking	Spanish II or III French II or III Public Speaking AP Psychology Strength and Conditioning Yoga Chemistry Earth & Space Science Physics Environmental Science Climate Science	Spanish III or Honors Spanish IV French III or Honors French IV Public Speaking Psychology AP Psychology Strength and Conditioning Yoga Chemistry Earth & Space Science Physics Plant Science Animal Science Environmental Science Climate Science Human Anatomy Biological Techniques in Forensic Science Physical Techniques in Forensic Science Advanced Topics in Microbiology FACS Learning to Cook Food & Nutrition Early Childhood Development	Honors Spanish IV or V Honors French IV or V Public Speaking Psychology AP Psychology Strength and Conditioning Yoga Chemistry Earth & Space Science Physics Plant Science Animal Science Environmental Science Climate Science Human Anatomy Biological Techniques in Forensic Science Physical Techniques in Forensic Science Advanced Topics in Microbiology FACS Learning to Cook Food & Nutrition Early Childhood Development
FACS Learning to Cook Early Childhood Development Intro to Business	FACS Learning to Cook Food & Nutrition Early Childhood Development Intro to Business Personal Finance TCHS OACTEP - Animal & Plant Science Tech	Business & Personal Law Dual Credit Honors Foundations of Business Personal Finance TCHS Career Pathways Work Experience OACTEP - Animal & Plant Science Tech	Business & Personal Law Dual Credit Honors Foundations of Business TCHS Career Pathways Work Experience Diversified Occupations Experience (D.O.) OACTEP - Animal & Plant Science Tech

Octorara Area Junior-Senior High School

Promotion and Retention Policy

The Octorara Area Junior-Senior High School Promotion and Retention Policy has been developed in accordance with the Pennsylvania State Department of Education Regulations governing the graduation of students.

Graduation Requirements:

Beginning with Class of 2023

English	4 credits
Social Studies	3 credits
Science	3(4) credits*
Mathematics	4(3) credits*
PE/Health	1/.5 credits**
Personal Finance	.5 credit
Electives	9 credits
Keystone Exams ***	
TOTAL	25 credits

- * Total of 7 credits from Mathematics and Science
- ** Students with an athletic exemption only need .5 PE/.5 Health credits, and subsequently must then complete 8 elective credits. (Students may only use an athletic exemption for PE once in grades 10, 11, or 12.)
- *** Students must pass the identified Keystone Exams, which currently include Algebra I, Literature, and Biology; or complete one of the other Pathways to Graduation (see page 20).

Definition of Credits

Credit value is given to courses based on the duration of the course (full year, semester).

Full year course = 1.0 credit | Semester course = 0.5 credit

Promotion Requirements

Students shall meet the following minimum academic standards to be promoted from one grade to the next.

Credits required:

Promotion from grade 9 to 10.....	6.0 credits
Promotion from grade 10 to 11.....	12.0 credits
Promotion from grade 11 to 12.....	18.0 credits

Gifted Program

The Gifted Education program consists of state and federally-mandated adherence to Gifted Individualized Education Plan (GIEP) goals and objectives, which are established yearly with the gifted support teacher, student, parent(s), and classroom teacher(s). The GIEP will challenge students in their area(s) of giftedness by establishing enriched curriculum (e.g., independently planned projects or independent curriculum) and/or course acceleration, according to student needs. Students are encouraged to enroll in Advanced Placement (college-level), Dual Credit, and Honors classes in the subject areas of their choice. Additionally, students may participate in extracurricular activities that challenge the students' abilities and talents (if qualified). Continued participation in the gifted program (GIEP) is not necessary in order to participate in any extracurricular activities or advanced level coursework.

Grading and Marking System

Student progress can be monitored via Powerschool, the online student data system. Parents who have not already accessed Powerschool should contact Robert Steffy (rsteffy@octorara.org) to obtain their log-in and password information. Report cards will only be printed by parent request throughout the school year, except for the final report card, which will be mailed home. This report will show the student's achievement in academics. For each academic rating, there may be a favorable or unfavorable comment entered by the teacher to provide additional information for the parent.

For each report card period, the student will be issued a letter grade for each subject that may include a (+) or (-) rating. The letter grade corresponds to a percentage score for the marking period. A numeric value is assigned to each grade in order to calculate a student's GPA. Letter grades and numeric values will be issued based on the following conversion chart:

Grade	% Equiv.	Numeric Value	Grade	% Equiv.	Numeric Value
A+	97-100	4.33	C+	77-79	2.33
A	93-96	4.00	C	73-76	2.00
A-	90-92	3.67	C-	70-72	1.67
B+	87-89	3.33	D+	67-69	1.33
B	83-86	3.00	D	63-66	1.00
B-	80-82	2.67	D-	60-62	.67
			E	50-59	.00
			F	0-49	.00

Each AP/Honors/Dual Credit course grade will be weighted with one additional point before the GPA is calculated. The numeric value for an A+ will be 5.33; an A will be 5.0; an A- will be 4.67, etc.

Sample GPA Calculation

	Grade	x	Points	x	Credits	=	Value
Honors English 9	A-		4.67		1.0		4.67
Academic World History	B		3.00		1.0		3.00
Honors Biology	B+		4.33		1.0		4.33
Geometry	A		4.00		1.0		4.00
P.E. 9	A		4.00		0.5		2.00
Spanish II	A		4.00		1.0		4.00
Band	B+		3.33		1.0		3.33
Public Speaking	A		4.00		0.5		2.00
TOTAL					7.0		27.33
GPA							27.33 ÷ 7.0= 3.90

Honor Roll Criteria

Students attaining academic success will be recognized in the Octorara Area Junior-Senior High School Honor Roll. There are three categories of honors:

Distinguished Honor Roll status will be awarded to students attaining all "A's".

High Honor Roll status will be awarded to students with a GPA of 3.5 (with no incomplete grades, no withdraw/failing grades and no grades lower than a "B-").

Honor Roll status will be awarded to students earning a GPA of 3.0 (with no incomplete grades, no withdraw/failing grades, and no more than one "C").

Honors Courses

The following courses are considered “Honors” courses and are more heavily weighted when Grade Point Average is calculated:

- Honors English 9, 10, 11
- Honors World History
- Honors Biology
- Honors Chemistry
- Honors Earth & Space Science
- Honors Spanish IV, V
- Honors Algebra II
- Honors Geometry
- Honors Pre-Calculus
- Honors Financial Accounting
- Honors Foundations of Business
- Honors French IV, V

Advanced Placement Program

The following subject areas offer Advanced Placement courses: English, U.S. History, U.S. Government and Politics, Psychology, Calculus, Statistics, Biology, Physics, Chemistry, Business, and Art. Summer enrichment work is assigned and recommended to be completed in order to be successful in the course. At the completion of the course, students are expected to take the Advanced Placement Examination given in May of each year. The fee for the exam is paid for by the district. Colleges may accept test scores as completed college level work.

- Advanced Placement English Lit. and Composition
- Advanced Placement Psychology
- Advanced Placement U.S. History
- Advanced Placement U.S. Government & Politics
- Advanced Placement Calculus
- Advanced Placement Statistics
- Advanced Placement Chemistry
- Advanced Placement Biology
- Advanced Placement Physics 1: Algebra Based
- Advanced Placement Physics 2: Algebra Based
- Advanced Placement Physics C
- Advanced Placement Studio Art (2-D, 3-D, Drawing)

Dual Credit

Dual credit partnerships provide high school students the opportunity to take college credit courses taught by college-approved high school teachers. Dual credit is for qualified students, as determined by the colleges. Students will be responsible for the application process. All dual credit fees are paid for by the district. The post-secondary institution will make the final decision on enrollment.

Octorara Area Junior-Senior High School in cooperation with Delaware County Community College (DCCC) and *St. Joseph's University (St. Joe's) offer college courses at Octorara during the school year, which include the following:

Octorara Course

DCCC/St. Joe's Course

Dual Credit United States Government & Politics (156DC)	DCCC - American National Government (POL 120)
Dual Credit Honors Foundations of Business (441DC)	DCCC - Introduction to Business (BUS 100)
Dual Credit Honors Financial Accounting (463DC)	DCCC - Financial Accounting (ACCT 111)
OACTEP - Engineering Technology (814)	DCCC - CADD Graphics (TCC 112)
OACTEP - Engineering Technology (814)	DCCC - CADD 2-D (TCC 122)
Dual Credit Physics 1 - Algebra Based (243DC)	*St. Joe's - Intro to Physics 1 (Algebra Based)
Dual Credit Physics 2 - Algebra Based (244DC)	*St. Joe's - Intro to Physics 2 (Algebra Based)
Dual Credit Physics C (242DC)	*St. Joe's - Physics I (Calculus Based)



*These courses were originally offered by the University of the Sciences, which is now part of St. Joseph's University. Dual credit agreements with St. Joseph's have not yet been finalized.

Dual Enrollment

Dual enrollment between post-secondary schools (community colleges, four-year colleges, trade and technical schools) and Octorara Area Junior-Senior High School occurs when students are permitted to take courses through a post-secondary institution, in addition to the courses students take at Octorara. This could be online or through brick and mortar schools and may occur during the school day or even at night or on weekends. Dual enrollment gives Octorara students the chance to earn college credits as well as high school credits simultaneously. These high school credits will be weighted more heavily (equivalent to honors and AP) when the GPA is calculated. Students who participate in dual enrollment with post-secondary schools will be responsible for their own transportation and the cost of tuition, books and associated fees for courses. Students will be responsible for the application process (fees, application, transcript, and other necessary supporting materials). The individual post-secondary institution will make the final decision on whether or not a student has been admitted. Octorara currently has dual enrollment partnerships at a reduced cost with Delaware County Community College and West Chester University. Students may also seek opportunities offered through other post-secondary institutions. However, students must receive administrative approval and have a dual enrollment contract on file prior to registering for college courses. Students interested in exploring this opportunity should schedule an appointment with their high school counselor prior to registering for college classes in order to discuss course selections, to complete the dual enrollment contract, and to ensure that all high school graduation requirements are met.

Octorara Area Career and Technical Education Programs (OACTEP) (Formerly known as CTP courses)

The Octorara Area School District is unique to other districts in Chester County in that the Senior High School includes a school within a school model by incorporating eleven Career and Technical Education (CTE) Programs. OACTEP courses allow students to combine both college preparation and real-world workforce skills development into one customized education program. OACTEP courses encourage students to explore and prepare for careers in engineering, industrial technology, and agriculture; social and human services; arts and communication; science; and business, marketing, and finance.

Programs of study are organized by career clusters, which include distinct groupings of occupations and industries based on the knowledge and skills they require. Academic and practical training keeps pace with post-secondary institutions and business/industry. Students are well prepared for continued education at entry-level positions or continued education at technical schools and colleges.

Career and technical programs are aligned to the Pennsylvania State Standards and focus on national industry certifications. OACTEP courses are elective courses. Depending on the program, students receive 3 or 4 elective credits. Each program meets 3 periods per day. Upon successful completion of a career and technical education course of study, students may receive industry level certifications and college credits.

OACTEP - Woodworking Technology (CIP 48.0703)

OACTEP - Animal & Plant Science Technology (CIP 01.0301)

OACTEP - Mechanical Systems Technology (CIP 01.0201)

OACTEP - Homeland Security & Protective Services (CIP 43.9999)

OACTEP - Engineering Technology (CIP 15.1301)

OACTEP - Culinary and Baking/Pastry Arts (CIP 12.0501)

OACTEP - Child Care Education (CIP 19.0708)

OACTEP - Graphic Design & Illustration (CIP 50.0402)

OACTEP - Business Academy (CIP 52.0701)

OACTEP - Computer Technology (CIP 15.1202)

OACTEP - Diversified Occupations (CIP 32.0105)

Octorara Virtual Academy

The Octorara Virtual Academy (OVA) is designed to give students and families a learning option to meet individual student needs.

The OVA provides online learning opportunities for:

- The PM Program for students in grades 11-12 (requires administrative placement)
- Credit Recovery (summer school, *students must pay for these courses)
- Students to take additional courses that either are not offered at OASD or courses that do not fit into a student's schedule
- Homebound instruction
- Students who are unable physically to attend school for part of the day (blended learning opportunities)
- Blended scheduling (for OACTEP or TCHS only), one course, or full-time cyber school (grades 7-12)
- Full-time cyber option

Students who enroll in OVA full time have access to all the same services, events, and extracurricular activities that all other Octorara

students receive. Some of the other OVA benefits include:

- School district issued diploma
- Participation in graduation ceremony
- Participation in sports and band
- Attendance at homecoming, prom, and other school dances
- Accessibility to Career and Technical Programs
- Accessibility to counselor services
- Flexibility to the standard school day

If you are interested in hearing more about online programming or what the OVA program has to offer, please email mpeticca@octorara.org or call 610-593-8238, ext. 5510.

Summer School/Credit Recovery

If a student does not pass a course during the regular school year, he or she may participate in summer school (credit recovery) through the Octorara Virtual Academy (OVA). Upon successful completion of the OVA credit recovery course, the course credit will be added to the student's transcript. Students and parents are required to pay for all credit recovery courses. To register for a credit recovery course, please visit <https://www.octorara.k12.pa.us/domain/68> no later than June 15, 2022. All credit recovery courses must be paid for in advance and completed by August 11, 2022.

Summer Reading

All students who have completed grades 8-11 are required to complete a summer reading assignment. The summer reading assignment will enable students to demonstrate their understanding of two self-selected books. More detailed information can be found on the JSHS website. Students will turn their summer reading assignments into their English Teacher on the first day of school.

Digital Career Readiness Portfolio (Career Artifacts)

The Pennsylvania Department of Education requires all learners to meet the full continuum of career readiness expectations as defined for each grade span indicated below. Specifically, evidence (career artifacts) shall be collected in a manner which validates that all four strands of the Career Education and Work standards have been meaningfully addressed. Grade span requirements are as follows:

Grade 5 Benchmark — 6 pieces of evidence between grades K-5

Grade 8 Benchmark — 6 pieces of evidence between grades 6-8, including individualized career plan

Grade 11 Benchmark — 8 pieces of evidence between grades 9-11, including 2 pieces of evidence that demonstrate career plan implementation

The four Career Education and Work standards (strands) must be addressed at least once in the benchmark pieces of evidence listed above:

13.1 - Career Awareness and Preparation

13.2 - Career Acquisition

13.3 - Career Retention and Advancement

13.4 - Entrepreneurship

Here at Octorara, career artifacts will be collected within Naviance. Naviance is a comprehensive K-12 college and career readiness platform that helps students align their strengths and interests with careers and postsecondary education. Octorara students each have their own account that can be accessed on their Chromebooks under Octorara Links. After completing a career related activity, students are expected to log into Naviance and upload their career artifact or complete a survey which explains what activity they engaged in and how that information relates to their future career plans. Many of the career activities will take place within classes such as Technology in Your Future (8th grade) and Personal Finance (10th grade). Students who attend the Technical College High School (TCHS) will complete a majority of their career artifacts at TCHS. However, those students are still responsible for uploading their artifacts into their Naviance account at Octorara. If you have additional questions, contact your child's school counselor for more information.

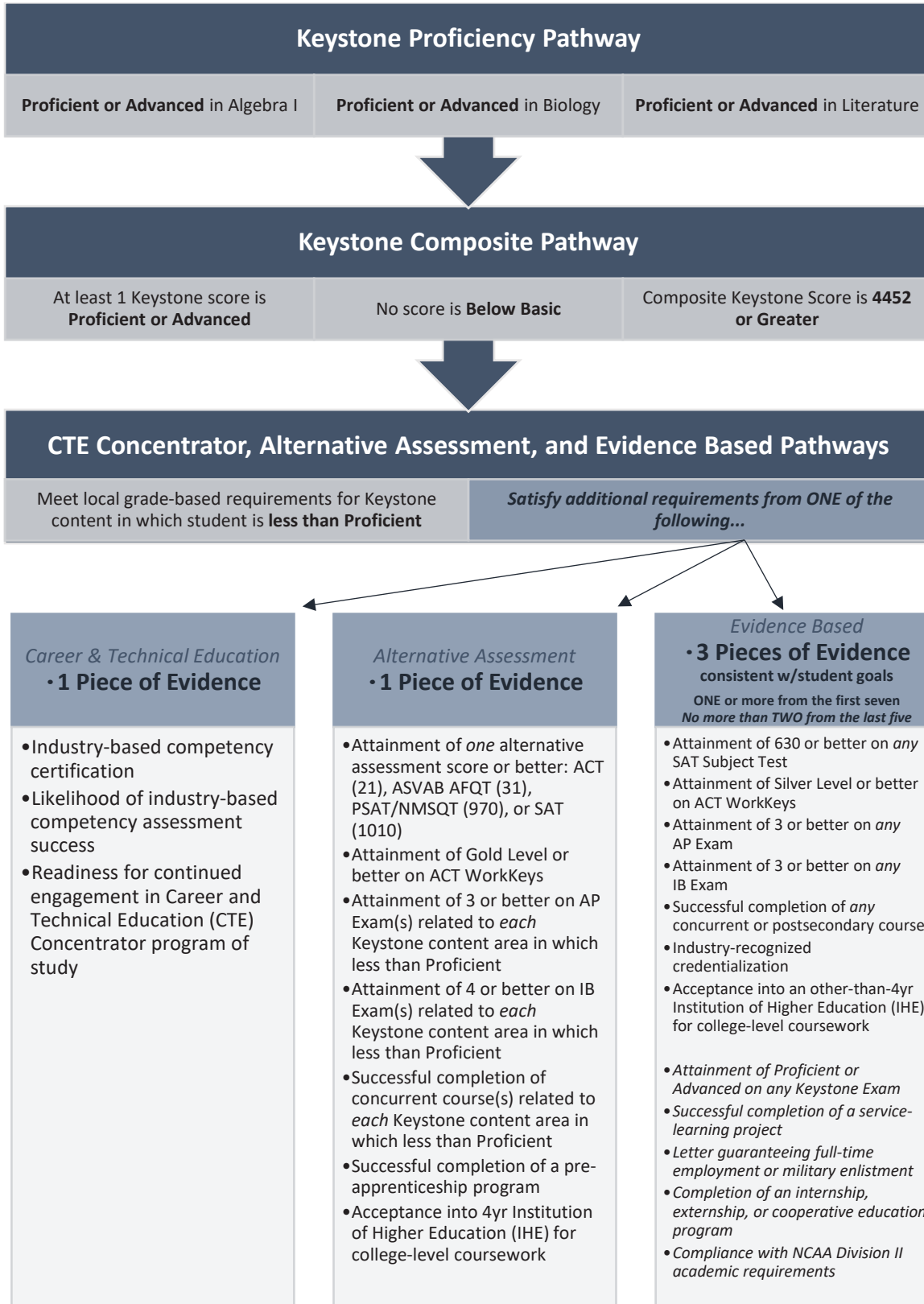
Act 158: Pathways to Graduation

Act 158 provides alternatives to Pennsylvania's statewide requirement of attaining proficiency on the three end-of-course Keystone Exams (Algebra I, Literature, and Biology) in order for a student to achieve statewide graduation requirements. Effective with the graduating class of 2023, students have the option to demonstrate postsecondary preparedness through one of the four additional pathways that more fully illustrate college, career, and community readiness. Further details on each of the five Pathways to Graduation are provided within the graphic shown on page 21.

Pathways To Graduation

(Beginning with the Class of 2023)

Act 158 Pathway Graphic



NCAA Eligibility Information for Student-Athletes

If students are planning to enroll in a Division I or Division II college and wish to participate in athletics, they must be certified by the NCAA Eligibility Center. Student-Athletes should inform their school counselors of their college athletic plans and should be aware of NCAA requirements starting with eighth grade courses.

To be certified by the Eligibility Center, students must:

- ✓ Have a core curriculum of at least 16 (Div. I and Div. II) academic courses between ninth and twelfth grade.
 - Only courses that satisfy the NCAA definition of a core course may be used. The counseling office updates qualifying core courses annually and maintains a list that interested students/parents should review. Course lists can be found on the NCAA website: www.eligibilitycenter.org
 - A core course is a recognized academic course.
 - Independent study and correspondence courses may not be used as core courses.

Division I		Division II	
2008 and after	16 Core Courses:	2018 and after	16 Core Courses:
4 years of English	(Academic or higher)	3 years of English	(Academic or higher)
3 years of mathematics	(Algebra I or higher)	2 years of mathematics	(Algebra I or higher)
2 years of natural/physical science	(1 year of lab if offered by high school)	2 years of natural/physical science	(1 year of lab if offered by high school)
1 year of additional English, mathematics or natural/physical science		3 years of additional English, mathematics or natural/physical science	
2 years of social science		2 years of social science	
4 years of additional courses	(From any area above, foreign language or non-doctrinal religion/philosophy)	4 years of additional courses	(From any area above, foreign language or non-doctrinal religion/philosophy)

- ✓ Apply for certification the summer prior to the senior year. The Eligibility Center will issue a preliminary certification report after submission of all materials.
- ✓ Graduate from high school. The Eligibility Center will review the student's final transcript to make a final certification decision.
- ✓ As a Full Qualifier for Division I, students enrolling full time after August, 2016 are required to have a minimum GPA of 2.3 in the 16 core courses (10 core courses are required before the beginning of senior year) and the required ACT or SAT scores, according to the Division I Full Qualifier Sliding Scale.
- ✓ As a Full Qualifier for Division II, students enrolling full time after August, 2016 are required to have a minimum core GPA of 2.2 in the 16 core courses (same as Division I) and the required ACT or SAT scores, according to the Division II Full Qualifier Sliding Scale.

Nondiscrimination Policy

The Octorara Area School District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. Inquiries may be directed to Jeff Curtis, Title IX Coordinator or the Section 504 Coordinator, Cale Hilbolt at 228 Highland Road, Suite 1, Atglen, PA 19310 or 610-593-8238.

Course of Study

This four-year plan of study should serve as a guide as you choose your academic core requirements and electives. All plans should meet graduation requirements.

Subjects

English
(4 credits required)

Social Studies
(3 credits required)

Science
(3 or 4 credits required)

Mathematics
(4 or 3 credits required)

World Languages
(Recommended for four-year college)

Physical Ed./Health
(1/5 credits required)

Electives
(9.5 credits required)

9th

Honors English 9
Literature & Composition 9

Honors World History
Academic World History

Honors Biology
Physical Science AND Life Science

Honors Algebra II
Algebra II
Algebra I
Algebra I - Part 1

Spanish or French
-OR-
Pathway Elective

Physical Education 9
-AND-
Health

Pathway Elective
Elective

10th

Honors English 10
Literature & Composition 10

AP Psychology
Academic U.S. History

Biology
Honors Chemistry
Chemistry
Earth & Space Science
Physics
Animal Science
Plant Science
Environmental Science
Climate Science

Honors Geometry
Geometry
Algebra II
Fund of Algebra II
Algebra I - Part 2

Spanish or French
-OR-
Pathway Elective

PE Elective
-OR-
Elective

Pathway Elective
Personal Finance

11th

Honors English 11
Literature & Composition 11

AP U.S. History
Modern Western Civilization
American Government
Psychology
Economics

AP Physics 1
Dual Credit Physics 1
AP Biology
Chemistry
AP Chemistry
Human Anatomy
Plant Science
Animal Science
Climate Science
Biological Techniques in
Forensic Science
Physical Techniques in
Forensic Science
Advanced Topics in Microbiology
Honors Earth & Space Science
Environmental Science

Honors Pre-Calculus
Pre-Calculus
Algebra III
Statistics
AP Statistics
Geometry
Fund of Geometry
Fund of Algebra II

Spanish or French
-OR-
Pathway Elective

PE Elective
-OR-
Elective

Pathway Elective
Elective

12th

AP English Literature & Composition
The Novel
Creative Writing
The Short Story
Composition 12
Critical Literacy
Technical Writing

AP U.S. Gov't and Politics
Dual Credit U.S. Gov't and Politics
Academic Gov't and Politics
Psychology
American Government
Economics

AP Physics C
AP Physics 1
Dual Credit Physics C
Dual Credit Physics 1
AP Physics 2
AP Biology
Dual Credit Physics 2
Physics
Human Anatomy
AP Chemistry
Animal Science
Plant Science
Earth & Space Science
Biological Techniques
Chemistry
in Forensic Science
Climate Science
Physical Techniques in
Environmental
Forensic Science
Advanced Topics in Microbiology
Science
Honors Earth & Space Science

AP Calculus
Algebra III
Pre-Calculus
Statistics
Calculus
AP Statistics
Topics in Mathematics
Fund of Algebra II

Spanish or French
-OR-
Pathway Elective

PE Elective
-OR-
Elective

Pathway Elective
Elective

Course Descriptions

The following pages provide course descriptions for every course offered at Octorara Area Junior-Senior High School. The courses are listed by department. Provided within each description are the following criteria: who is allowed to take the course, the number of credits the course is worth, an overview of what is taught in the course, and the prerequisites required to be enrolled in the course. Most courses are offered every year. However, there are a few that will not. This will be indicated beside the course title. Please note: These offerings are subject to change without advanced notice.

English

Suggested Course Sequence

9th	10th	11th	12th	
Honors English 9	Honors English 10	Honors English 11	AP English Lit & Comp 12	
Literature & Composition 9	Literature & Composition 10	Literature & Composition 11	The Novel The Short Story Critical Literacy	Creative Writing Composition 12 Technical Writing

010 – Honors English 9

1.0 Credit

Gr. 9

Honors English 9 is a rigorous course in literature, composition, grammar and vocabulary designed for students who enjoy the challenges of studying college preparatory classical literature. Students will be required to read selections from a variety of literary genres including fiction, nonfiction, drama and poetry. Honors English 9 will lay the foundation for succeeding honors courses; therefore, students who plan to take AP English their senior year are strongly encouraged to enroll. Literary works may include *The Odyssey*, two Shakespearian plays (*Romeo and Juliet* and *The Tempest*), *A Separate Peace*, and various short stories. Students will be trained to write according to the modified Advanced Placement Writing Rubric, and emphasis will be placed on the skill of composing controlled, analytical, thesis-based essays in both timed and untimed settings. Student growth in the areas of literary interpretation, focused writing, grammar and style are expected in accordance with Pennsylvania Academic Standards.

Prerequisites: "A" in 8th grade English and/or teacher recommendation.

017 – Literature and Composition 9

1.0 Credit

Gr. 9

The goal of this course is to prepare students for success in reading and writing, in accordance with Pennsylvania Academic Standards. Reading topics will include these literary genres: fiction, non-fiction, biography, autobiography, poetry, and drama. Reading selections may include: *The Odyssey*, *Romeo and Juliet*, and *The House on Mango Street*, as well as short stories. Written assignments will be used to assess student understanding of texts. In addition, students will demonstrate growth in the areas of literary interpretation, critical close reading, composition skills, grammar and vocabulary development, and public speaking skills.

020 – Honors English 10

1.0 Credit

Gr. 10

Honors English 10 emphasizes a generic study of literature that includes the short story, novel, poetry and drama. Students will read *Night*, *To Kill a Mockingbird*, *Hamlet*, *The Grapes of Wrath*, and other major works, including poetic works, by world authors who appear on the AP list. Students are expected to write extensively in response to literature as well as complete different research projects and varied oral reports and presentations. There will also be a number of timed essays given in preparation for Honors English 11 and AP English Literature and Composition. A variety of composition assignments will be given with an emphasis on competent handling of the literary thesis.

Students in this class will be expected to apply the principles of grammar and usage that were covered in Honors English 9 to their writing assignments and to exercises designed to prepare them for the writing section of the PSAT/SAT and similar standardized exams. Honors English 10 also consists of a vocabulary-building program and a study of sentence completions and other verbal problems as presented on the SAT. Expected outcomes are student growth in the areas of literary interpretation, critical close reading skills, composition skills, research skills, grammar and vocabulary development, and public speaking skills in accordance with Pennsylvania Academic Standards. Upon completion of this course, students are required to take the Literature Keystone Exam.

Prerequisites: "A" in Literature and Composition 9 or "B" or higher in Honors English 9 and/or teacher recommendation.

English

027 – Literature and Composition 10

1.0 Credit

Gr. 10

The goal of this course is to prepare students for success in reading and writing, in accordance with Pennsylvania Academic Standards. Reading topics will include these literary genres: fiction, non-fiction, biography, autobiography, poetry, and drama. Reading selections may include: *To Kill a Mockingbird*, *Night*, *A Midsummer Night's Dream*, *Night*, *Twelve Angry Men*, as well as short stories and poems. Written assignments will be used to assess student understanding of texts. In addition, students will demonstrate growth in the areas of literary interpretation, critical close reading, composition skills, grammar and vocabulary development, and public speaking skills. Upon completion of this course, students are required to take the Literature Keystone Exam.

030 – Honors English 11

1.0 Credit

Gr. 11

In Honors English 11, our “pre-AP course,” students continue to learn how to read, write, and think critically. This course is designed to prepare students for a four-year college program. Close readings and a survey of the great works in American Literature provide the content for critical study. The writing program focuses on how to write organized and coherent critical thesis papers on primary sources. Major works include: *The Nickel Boys*, *The Scarlet Letter*, *Billy Budd*, *Ceremony*, *The Old Man and the Sea*, *Their Eyes Were Watching God*, *The Great Gatsby*, *Of Mice and Men*, and *The Awakening*, as well as important works in American fiction, nonfiction and poetry.

Prerequisites: “A” in Literature and Composition 10 or “B” or higher in Honors English 10 and/or teacher recommendation.

037 – Literature and Composition 11

1.0 Credit

Gr. 11

This course emphasizes the chronological development of American Literature, starting with the colonial period and progressing to modern writers. Longer selections may include: *The Crucible*, *Moby Dick*, *The Scarlet Letter*, *Narrative of the Life of Frederick Douglass*, *The Great Gatsby*, *Death of a Salesman*, *A Raisin in the Sun*, *Our Town*, *Billy Budd*, *The Jungle*, *Bread Givers*, and *A Streetcar Named Desire*. Literary study will be supplemented with writing assignments about the literature. Students will engage in practice exercises to prepare for the PSAT and SAT tests. In addition, students are also required to conduct literary research, using MLA style documentation. Outside reading assignments are required as well as writing responses, oral presentations, and peer editing.

040 – Advanced Placement English Literature and Composition 12

1.0 Credit

Gr. 12

In AP English Literature and Composition, students continue to learn how to read, write and think critically. This course is designed to prepare students for a four-year college program. Close readings and focused discussion of the great works in World Literature provide the content for critical study. The writing program continues to focus on how to write organized and coherent critical thesis papers on primary sources; we also do a number of timed writings in preparation for the AP examination. Major works include: *Song of Solomon*, *The Road*, *A Thousand Splendid Suns*, *The Stranger*, *To the Lighthouse*, *Tess of the D'Urbervilles*, *Jane Eyre*, *Things Fall Apart*, *Oedipus Rex*, *Macbeth*, and *Heart of Darkness*, as well as important works in fiction, nonfiction, and poetry. Evening classes (The Great Books Symposium) are provided once every month, when possible, to discuss the more salient aspects of the world's greatest fiction.

Prerequisites: “B” or higher in Honors English 11 or “A” in Literature and Composition 11 and/or teacher recommendation.

044 – Technical Writing

.5 Credit

Gr. 12

Students taking this course will focus on the writing skills necessary to obtain a job in their career pathway. Students will learn and practice the technical writing skills necessary to be successful in the workplace. **This course fulfills the writing requirement of the senior-year English credit.**

086 – Creative Writing

.5 Credit

Gr. 12

Creative Writing is a course designed to develop critical thinking skills by analyzing and evaluating various exemplars of creative writing, as well as by creating works of fiction, non-fiction, and poetry. Students will learn and practice development, writing, and revision by working from an idea to a polished final draft. Students will create a portfolio of collected and revised works. Please note: this course is both reading and writing intensive. **This course fulfills the writing requirement of the senior-year English credit.**

077 – Composition 12

.5 Credit

Gr. 12

The focus of Composition 12 is to help students organize their ideas in writing and to perform critical thinking. This course is designed to give students extensive practice in writing in order to improve their ability to create substantial content and express it concisely. Students will be able to discover ideas, use language effectively, and influence/persuade audiences. Students will be expected to consistently implement the processes of writing—planning, editing, composing, and revising; students will understand how audience and purpose influence a writer's choice; develop multi-page essays in coherent arrangement; use supporting material and outside sources; demonstrate precision with varied sentence structure; apply the conventions of syntax and mechanics; and competently proofread. **This course fulfills the writing requirement of the senior-year English credit.**

087 – Critical Literacy

.5 Credit

Gr. 12

Students taking this course will follow current events across different media/information outlets as they learn to navigate a 24-hour news cycle within local, state, national, and global communities. The course will focus on the critical thinking and literacy skills necessary to listen, read, comprehend, evaluate and synthesize information in order to be a responsible, informed citizen. Students will be accessing both print materials as well as digital and social media sources. While this is a reading course, students will be asked to write in response to information across multiple sources. **This course fulfills the reading requirement of the senior-year English credit.**

071 – The Novel

.5 Credit

Gr. 12

The focus of this course will emphasize reading, writing, and critical thinking about a variety of novels. Students will also be expected to apply the principles of grammar and the vocabulary from Literature and Composition 9, 10, and 11. Students will demonstrate growth in the areas of literary interpretation, critical close reading skills, composition skills, grammar, and vocabulary development, in accordance with Pennsylvania Academic Standards. **This course fulfills the reading requirement of the senior-year English credit.**

072 – The Short Story

.5 Credit

Gr. 12

The focus of this course will emphasize reading, writing, and critical thinking about a variety of short stories and theoretical approaches. Literary theories include: Gender Theory, Marxist Theory, and Critical Race Theory. Students will also be expected to apply the principles of grammar and the vocabulary from Literature and Composition 9, 10, and 11. Students will demonstrate growth in the areas of literary interpretation, critical close reading skills, composition skills, grammar and vocabulary development, and public speaking skills in accordance with Pennsylvania Academic Standards. **This course fulfills the reading requirement of the senior-year English credit.**

028 – Intensive Reading & Writing

1.0 Credit

Gr. 9, 10, 11, 12

This course provides students with an intensive approach to reading and writing. Students read and respond to various genres in literature and informative text. They learn strategies that assist them to understand a variety of texts, applying the strategies throughout all academic classes. Students work in small groups at their current performance level to improve decoding, reading fluency, comprehension, and written expression skills. Upon completion of this course, students in Grade 10 are required to take the Literature Keystone Exam.

Prerequisite: Course enrollment by administrative placement only.

081 – Theatre - Elective

.5 Credit

Gr. 9, 10, 11, 12

Students taking Theatre will explore the world of the theatre through a hands-on, workshop-like approach. Students will experience basic pantomime skills, produce a good stage voice, experience improvisation activities, read plays, design sets, costumes and posters, and stage a performance monologue. Students are required to memorize lines and perform in front of their peers. Students will complete written self-evaluations and peer-evaluations on all assignments. Students may take this course multiple years with varying curricula.

781 – Broadcast Communications - Elective

.5 Credit

Gr. 9, 10, 11, 12

Using the facilities of the school studio, the course offers students the opportunity to acquire the communication skills used in broadcasting and an understanding of the technology involved in this medium. Students prepare and read local public service announcements, receive and deliver broadcast cues and messages, develop an understanding of the basic FCC rules and regulations, storyboard, film, and edit digital videos.

English

050 – Public Speaking - Elective

.5 Credit

Gr. 9, 10, 11, 12

Public Speaking is a course open to any high school student of any grade and ability level. The focus of which is the study and practice of the art of speech. Students will be engaged in a number of different activities designed to illustrate the circumstances in which they may be called upon to speak throughout their lives. Speech types include, but are not limited to: introduction, impromptu, how to, persuasive, toasts, PowerPoint, debate, interviews, and commencement addresses. Students will also study famous speeches and speakers from the past and utilize speaking techniques through a variety of speaking exercises and tasks.

035 – Academic Literacy - Elective

.5 Credit

Gr. 9, 10, 11, 12

Academic Literacy is designed to help high school students become more competent, strategic readers. In this course, participants will learn the cognitive and reflective processes that successful, independent readers use to comprehend text and will improve their skills with the more challenging content texts they encounter at the high school level.

Prerequisite: Course enrollment by administrative placement only.

English Language Development

091 - ELD 9

| 092 - ELD 10

| 093 - ELD 11

| 094 - ELD 12

1.0 Credit

Gr. 9, 10, 11, 12

The beginner curriculum emphasizes the development of basic English language skills through the domains of listening, reading, speaking, and writing. Mastery of survival vocabulary and basic grammatical structures will be the goal for this course. It is intended for newcomer students who have been in an English language school setting for one year or less.

The intermediate/advanced curriculum provides more emphasis on the development of academic English. Content area vocabulary will be explored in greater depth throughout the course as students learn to increase fluency in reading and to develop structural control in writing. This section is intended for students who have been in an English language school setting for less than two years.

The English Language Development (ELD) course is taken concurrently with grade-level English Language Arts (ELA) courses. This course provides additional linguistic and comprehension support and reinforces grammar, skills, and vocabulary taught at grade level.

Prerequisite: Course enrollment by diagnostic testing and administrative placement only.

095 – ELD Enrichment

1.0 Credit

Gr. 9, 10, 11, 12

This English Language Development (ELD) course covers the language forms and functions which include listening, reading, speaking, writing, concept development, vocabulary and academic language, phonics, spelling, grammar, conventions, and pronunciation. The English Language Development (ELD) Enrichment course is taken concurrently with grade-level English Language Arts (ELA) courses. The course also provides English Learners (ELs) with language support as they transition into ELA courses and helps students address linguistic challenges in other academic areas.

Prerequisite: Course enrollment by diagnostic testing and administrative placement only.

Social Studies

Suggested Course Sequence

9th	10th	11th		12th
Honors World History	AP Psychology	AP U.S. History		AP U.S. Gov't and Politics Dual Credit U.S. Gov't and Politics
Academic World History	Academic U.S. History	Modern Western Civilization		U.S. Gov't and Politics Dual Credit U.S. Gov't and Politics
		American Government	Psychology or Economics	

*Students must pass a World History course, a U.S. History course, AND an American Government course as part of the three Social Studies credits required for graduation.

111 – Honors World History

1.0 Credit

Gr. 9

This is the most rigorous social studies course offered to freshmen, covering world history from ancient civilizations to the 18th century. The content of the course is largely the same as Academic World History; however, students are required to do significant research, writing and reading. Activities include individual and group research, written reports, oral presentations and discussions.

Prerequisites: "A" in 8th grade social studies and/or teacher recommendation.

112 – Academic World History

1.0 Credit

Gr. 9

This course in world history follows a number of themes including political and economic development, the influence of geography on culture, and the growth of science and technology. Students will be required to complete various activities that reflect research and critical thinking.

130 – Advanced Placement U.S. History

1.0 Credit

Gr. 11

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. AP U.S. History is equivalent to a two-semester introductory college course in U.S. history.

Prerequisites: "A" in Honors World History or "B" or higher in AP Psychology and/or teacher recommendation.

132 - Academic U.S. History

1.0 Credit

Gr. 10, 11

The focus of this course is our nation's history from Reconstruction to the present, with emphasis on the twentieth century. Political, social, and economic aspects are presented both thematically and chronologically. Students are required to demonstrate their understanding of historical themes, trends, and periods by completing several projects that reflect independent research. Critical thinking skills will be developed through extensive essay writing and outside readings.

141 – American Government

.5 Credit

Gr. 11, 12

This course focuses on the government and politics of the United States. Students will be exposed to the basic foundations of political thought, rights and responsibilities of citizens, interest groups, political parties, and the three branches of government. In addition, the course will focus on the everyday implications of government and politics through various contemporary readings. The course grade will be based on homework, concept papers, tests, and projects.

Social Studies

151 - Economics

.5 Credit

Gr. 11, 12

This course is designed to introduce the learner to the study of economics and how people succeed at fulfilling their wants in a world of scarcity. The curriculum will introduce learners to economic thought and will offer units on microeconomics, macroeconomics and global economics. Topics such as supply and demand, entrepreneurs, taxes, banking, trade, immigration and globalization will be explained and applied. The learners will gain an overview of the subject matter and an understanding of how economic principles affect their lives.

155 - Academic United States Government and Politics

1.0 Credit

Gr. 11, 12

This class is designed to prepare students for college level work. The course has four major sections: foundations of government including the basic reasons for having a government and our constitutional system; connections between citizens and their government including interest groups, political parties, elections, and media; governmental institutions including the Congress, presidency, bureaucracy, and courts; and output of government - public policy. Within each of these subsections, students will be exposed to current information from *The New York Times*, *The Wall Street Journal*, or other news sources. Further, the course will require reading of material beyond the textbook. Grading will be based on tests, projects, and papers.

156 – Advanced Placement United States Government and Politics

1.0 Credit

Gr. 12

This AP course is the equivalent to a first-semester college American Government course. The course addresses four major topics: foundations of government including the basic reasons for having a government and our constitutional system; connections between citizens and their government including interest groups, political parties, elections, and media; governmental institutions including the Congress, presidency, bureaucracy, and courts; and output of government - public policy. This course requires students to address both those more difficult issues and some basic issues in more depth as required by the College Board. Students will have one or two short scholarly articles to read with each unit of the class (about 12 articles over the course of the year) and be required to read these articles and prepare a written response. In addition, students will develop their own political philosophies over the course of the year in thesis papers on a variety of topics. Substantial class participation is expected. All students enrolled in the course are expected to take the AP Exam.

156DC – Dual Credit United States Government and Politics

1.0 Credit / 3 College Credits

Gr. 12

This dual credit course is the equivalent to a first-semester college American Government course. The course addresses four major topics: foundations of government including the basic reasons for having a government and our constitutional system; connections between citizens and their government including interest groups, political parties, elections, and media; governmental institutions including the Congress, presidency, bureaucracy, and courts; and output of government - public policy. This course requires students to address both those more difficult issues and some basic issues in more depth. Students will have one or two short scholarly articles to read with each unit of the class (about 18 articles over the course of the year) and be required to read these articles and prepare a written response. In addition, students will develop their own political philosophies over the course of the year in thesis papers on a variety of topics. Substantial class participation is expected. This course is intended for students who wish to earn college credit from Delaware County Community College while in high school. See page 18 for further details.



167 – Modern Western Civilization

1.0 Credit

Gr. 11

This course provides a survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th Century to the Modern Era. Themes that will be addressed include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism.

Social Studies

168 – Advanced Placement Psychology

1.0 Credit

Gr. 10, 11, 12

AP Psychology introduces students to the systematic and scientific study of human behavior and mental processes. Students will learn about key psychologists and studies that have shaped psychology while also exploring and applying psychological theories and key concepts. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas. Topics covered include scientific foundations of psychology, developmental psychology, motivation, emotion and personality, clinical psychology, and personal psychology. AP Psychology is designed to be the equivalent of the Introduction to Psychology course usually taken during the first year of college.

169 – Psychology

.5 Credit

Gr. 11, 12

Students will examine the science of human behavior through a variety of learning experiences including research projects, experiments, behavioral observations, and case studies, while also exploring psychological testing and conducting surveys and interviews. Topics will include psychological approaches, research methods, the brain and behavior, personality development, psychological disorders, thinking and learning, memory and problem solving, sensation, and perception. Students will be evaluated through projects, labs, class discussions/participation, reflection papers, and tests. Small and large projects will make up most of the grade. This course is activity and project based. Regular attendance and active participation is required for success.

170 – Introduction to Philosophy - Elective

1.0 Credit

Gr. 12

The objective of the course is to survey the primary philosophical questions and answers from Greek philosophy to contemporary philosophy as a springboard for students to think about alternatives to key philosophical issues (Reality, Truth, Knowledge, Necessity, Faith, Self-Identity, Mind and Body, Freedom, Ethics and Politics), and let them arrive at their own individual conclusions. We will read and study primary sources, write critical essays about them, learn basic philosophical terminology, and construct our own individual philosophies based on our experiences in the course.

Science

Suggested Course Sequence

9th	10th	11th	12th
Honors Biology	Honors Chemistry	AP Biology AP Physics 1: Algebra Based Dual Credit Physics 1 AP Chemistry Honors Earth & Space Science	AP Biology AP Physics C Dual Credit Physics C AP Chemistry Honors Earth & Space Science AP Physics 1: Algebra Based Dual Credit Physics 1 AP Physics 2: Algebra Based Dual Credit Physics 2
Physical Science AND Life Science	Biology	Earth & Space Science Chemistry Plant Science Animal Science Physics Human Anatomy Biological Techniques in Forensic Science Physical Techniques in Forensic Science Advanced Topics in Microbiology Enviromental Science Climate Science	Earth & Space Science Chemistry Plant Science Animal Science Physics Human Anatomy Biological Techniques in Forensic Science Physical Techniques in Forensic Science Advanced Topics in Microbiology Enviromental Science Climate Science

Science

218 – Physical Science

.5 Credit

Gr. 9

This course will build upon the junior high science curriculum by focusing more in-depth on physical and chemical processes of the natural world. There is an emphasis on planning and conducting valid scientific experiments through which students will be collecting, analyzing and interpreting data, modeling, using mathematical and computational thinking, and constructing explanations from results to develop legitimate, justifiable theories. **All 9th grade students not enrolled in Honors Biology must take both Physical Science and Life Science.**

218L – Life Science

.5 Credit

Gr. 9

This course will build upon the junior high science curriculum by focusing more in-depth on phenomena central to life science. There is a focus on developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, and constructing explanations. **All 9th grade students not enrolled in Honors Biology must take both Physical Science and Life Science.**

221 – Biology

1.0 Credit

Gr. 10

This course will explore the principles of modern biology following PA Core Standards themes: basic biological principles, the chemical basis for life, bioenergetics, homeostasis and transport, cell growth and reproduction, genetics, and the theory of evolution. Upon completion of this course, students are required to take the Biology Keystone Exam.

Prerequisite: Successful completion of Physical Science and Life Science.

220 – Honors Biology

1.0 Credit

Gr. 9

This course will explore the principles of modern biology following PA Core Standards themes: basic biological principles, the chemical basis for life, bioenergetics, homeostasis and transport, cell growth and reproduction, genetics, and the theory of evolution. Students will be encouraged to establish lines of evidence and refine testable explanations and predictions of natural phenomena. Students will participate in independent reading and laboratory work intended to develop advanced inquiry and reasoning skills. Upon completion of this course, students are required to take the Biology Keystone Exam.

Prerequisite: "A" in 8th grade science and/or teacher recommendation.

224 – Advanced Placement Biology

1.2 Credits

Gr. 11, 12

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. Students will be encouraged to establish lines of evidence and refine testable explanations and predictions of natural phenomena. In addition, students are expected to read and analyze primary source documents and supplemental texts, including *The Demon-Haunted World* and *Why Evolution is True*.

Prerequisites: Successful completion of Biology and Chemistry.

231 – Chemistry

1.0 Credit

Gr. 11, 12

This course includes basic concepts and language of chemistry, general methods for problem solving, and using models to show how matter behaves on the particle level. Concepts such as matter, energy, physical and chemical changes, bonding, reactions, stoichiometry and quantifying and representing findings will be discovered. Chemistry provides sufficient background for students who do not plan to major in science in college, but have general interest in science. This could include students interested in non-degree nursing programs. The course will include as much laboratory experience as time permits.

Prerequisites: Successful completion of Biology and Algebra I.

233 – Honors Chemistry

1.0 Credit

Gr. 10, 11, 12

The Honors Chemistry course covers all the topics included in the basic chemistry course but more in-depth information on those topics is addressed. This course will provide the background necessary for college preparatory students who desire to major in one of the sciences, engineering or related fields. The course will deal with the basic concepts of chemistry, emphasizing the quantitative aspects, and many advanced topics. At times, the course will be laboratory oriented.

Prerequisites: "B" or higher in Honors Biology or "A" in Biology and "B" or higher in Algebra I and Algebra II.

240 – Physics

1.0 Credit

Gr. 11, 12

This course will explore the nature of motion, forces, and energy (including mechanical, electrical, and radiant) by analyzing the meaning of the various laws of physics. Problem solving will be the focus of this course. Extensive experiments and projects will be conducted to explain physical phenomena. Significant time will be spent using state of the art data taking equipment and interpreting data.

242 – Advanced Placement Physics C (Not offered every year - based on student demand)

1.0 Credit

Gr. 12

This course is a calculus-based companion to AP Physics 1 and 2: Algebra Based. It is equivalent to the first year of calculus-based college physics and is constructed for students who will likely pursue technical degrees in college. The topics covered include mechanics, thermodynamics and electricity and magnetism. Although concurrent enrollment in calculus is recommended, strong math students enrolled in trigonometry can be successful in this course. This course is intended for students who wish to earn college credit while in high school. All students are expected to take the AP exam. Questions about the difficulty or appropriateness for an individual student should be directed to the instructor.

Recommended: Successful completion of a physics course or instructor approval. It is recommended that students be concurrently enrolled in calculus.

242DC – Dual Credit Physics C (Not offered every year - based on student demand)

1.0 Credit / 3 College Credits

Gr. 12

This course is a calculus-based companion to AP Physics 1 and 2: Algebra Based. It is equivalent to the first year of calculus-based college physics and is constructed for students who will likely pursue technical degrees in college. The topics covered include mechanics, thermodynamics and electricity and magnetism. Although concurrent enrollment in calculus is recommended, strong math students enrolled in trigonometry can be successful in this course. This course is intended for students who wish to earn college credit from *St. Joseph's University while in high school. See page 18 for further details. Questions about the difficulty or appropriateness for an individual student should be directed to the instructor.

*This course was originally offered by the University of the Sciences, which is now part of St. Joseph's University. Dual credit agreements with St. Joseph's have not yet been finalized.

Recommended: Successful completion of a physics course or instructor approval. It is recommended that students be concurrently enrolled in calculus.

243 - Advanced Placement Physics 1: Algebra Based

1.2 Credits

Gr. 11, 12

AP Physics 1: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum), mechanical waves, and sound. It will also introduce electric circuits. This course is intended for students who wish to earn college credit while in high school. Questions about the difficulty of this course should be directed to the teacher. All students are expected to take the AP Exam.

Prerequisites: Successful completion of Algebra I, Algebra II, and Geometry.

243DC - Dual Credit Physics 1: Algebra Based

1.2 Credits / 3 College Credits

Gr. 11, 12

Dual Credit Physics 1: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum), mechanical waves, and sound. It will also introduce electric circuits. This course is intended for students who wish to earn college credit from *St. Joseph's University while in high school. See page 18 for further details. Questions about the difficulty of this course should be directed to the teacher.

*This course was originally offered by the University of the Sciences, which is now part of St. Joseph's University. Dual credit agreements with St. Joseph's have not yet been finalized.

Prerequisites: Successful completion of Algebra I, Algebra II, and Geometry.



Science

244 - Advanced Placement Physics 2: Algebra Based (Not offered every year - based on student demand)

1.2 Credits

Gr. 12

AP Physics 2: Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, atomic and nuclear physics, and optics. This course is intended for students who wish to earn college credit while in high school. Questions about the difficulty of this course should be directed to the teacher. All students are expected to take the AP Exam.

Prerequisite: Successful completion of AP Physics 1: Algebra Based or Dual Credit Physics 1: Algebra Based.

244DC - Dual Credit Physics 2: Algebra Based (Not offered every year - based on student demand)

1.2 Credits / 3 College Credits

Gr. 12

Dual Credit Physics 2: Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, atomic and nuclear physics, and optics. This course is intended for students who wish to earn college credit from *St. Joseph's University while in high school. See page 18 for further details. Questions about the difficulty of this course should be directed to the teacher.

*This course was originally offered by the University of the Sciences, which is now part of St. Joseph's University. Dual credit agreements with St. Joseph's have not yet been finalized.

Prerequisite: Successful completion of AP Physics 1: Algebra Based or Dual Credit Physics 1: Algebra Based.



245 – Advanced Placement Chemistry

1.2 Credits

Gr. 11, 12

This course will review the major concepts taught in Honors Chemistry but will cover them in greater detail. The four main areas of emphasis are: (1) thermodynamics within the context of the Gibbs-Helmholtz equation, (2) reaction rates for zero, first and second order reactions, (3) equilibrium in solutions and acid-base reactions such as in buffers, (4) oxidation-reduction reactions and voltaic cells. Previous AP tests will be reviewed in preparation for taking the AP exam. Students are expected to take the AP exam.

Prerequisites: "B" or higher in Honors Chemistry or "A" or higher in Chemistry and "B" or higher in Algebra I and Algebra II.

251FY – Human Anatomy and Physiology

1.0 Credit

Gr. 11, 12

The course emphasis includes microscopic and gross anatomy and physiology of the human body using models, slides, videos, and specimen dissection. After reviewing the molecular basis of fundamental types of tissues, we will consider each of the organ systems including the neuro-muscular, skeletal, digestive, cardio-vascular, and urinary systems. Throughout the course, students will develop and use appropriate anatomical vocabulary.

Prerequisites: "C" or higher in two years of high school science and/or teacher recommendation.

260 – Earth & Space Science

1.0 Credit

Gr. 11, 12

Earth & Space Science is an intriguing exploration through our discoveries of the Universe. The course provides a foundation in astronomy and geology, with several sub-disciplines like cosmology and nuclear science. A diverse combination of classroom and web-based instruction, live and interactive simulations, and hands-on application provides students with opportunities to learn essential reading, problem solving, research and practical skills, all while gaining a better understanding of our world. Students will learn the clues to deciphering the past, evaluating the present, and predicting various potential futures.

267 – Honors Earth & Space Science

1.0 Credit

Gr. 11, 12

Honors Earth & Space Science covers the same general concepts as Earth & Space Science, but to a greater depth. In addition to what is listed in the Earth & Space Science course description, Honors students will ponder more challenging topics of cosmology, dive deeper into the intricate details of the geosciences, and investigate concepts on the forefront of modern understanding. Students will be expected to demonstrate higher levels of abstract thought and comprehension through mathematical analysis, summary reports, field experiences, and classroom debates.

Prerequisites: "B" or higher in two years of high school science and/or teacher recommendation.

Science

270 – Biological Techniques in Forensic Science (Not offered every year)

.5 Credit

Gr. 11, 12

This course is intended for students interested in learning the discipline of forensic science and crime scene investigations. Forensic Science is the application of science to the law. Science offers the knowledge and technology needed for definition, enforcement and clarification of the use of evidence in criminal and civil cases. Students will be introduced to forensic history, criminal and non-criminal analysis and techniques such as DNA, entomology, botany, pathology, blood chemistry, physical and trace evidence. Course cases will focus on problem solving techniques. Students will be expected to work individually and in teams, theorize, research forensic methodologies, synthesize information, and make conclusions based on their own empirical evidence.

Prerequisites: "C" or higher in two years of high school science and/or teacher recommendation.

271 – Physical Techniques in Forensic Science (Not offered every year)

.5 Credit

Gr. 11, 12

Students assume the role of a forensic scientist by applying scientific principles that are used to examine evidence and to obtain and interpret data, perform exacting laboratory work, keep detailed records, write accurate reports, and explain and defend their findings. Students perform laboratory work applying scientific knowledge to solve complex problems, communicate clearly and effectively in both writing and speaking, and prepare and defend conclusions based on a broad spectrum of scientific studies. Topics include crime scene processing, fingerprinting, arson, ballistics, glass, and many more.

Prerequisites: "C" or higher in two years of high school science and/or teacher recommendation.

850 - Plant Science

1.0 Credit

Gr. 10, 11, 12

The Plant Science course provides a foundation of plant science knowledge and skills. Students will experience various plant science concepts through hands-on activities, projects, and problems. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agronomic, forestry, and horticultural industries. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.

Prerequisite: Successful completion of Biology.

853 – Animal Science

1.0 Credit

Gr. 10, 11, 12

The major focus of the Animal Science course is to expose students to agriculture, animal science, and related career options. Students participating in the Animal Science course will have experiences in various animal science concepts with hands-on activities, projects, and problems. Students' experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional, and world markets.

Prerequisite: Successful completion of Biology.

277 - Environmental Science

.5 Credit

Gr. 11, 12

Environmental Science is the study of the natural world and the impact of human activity on its condition. This course shows the connection between science, technology, and society. Students will apply prior scientific knowledge to current environmental issues related to sustainability, biodiversity, water use, and responsible waste management. Students will relate global, national, and local issues to concepts they learn in the environmental science classroom. The course will include as much laboratory experience as time permits.

Prerequisite: Successful completion of Biology.

Science

278 - Climate Science

.5 Credit

Gr. 11, 12

Today's society faces many difficult decisions that involve science and technology, so it is important to know how to evaluate all of the options before making a decision that may impact all of society. Students will work to understand current scientific findings related to climate change as it impacts atmospheric, land, and ocean environments. Solutions to rising global temperatures will be explored and debated. The course will include as much laboratory experience as time permits.

Prerequisite: Successful completion of Biology.

275 – Advanced Topics in Microbiology (Not offered every year- based on student demand)

.5 Credit

Gr. 11, 12

Advanced Topics in Microbiology will concentrate on microbial relationships with a focus on bacterial and viral infections. The course will stress the study of morphology, physiology, and genetics of bacteria and viruses and will also explore their consideration in medicine, industry, and the environment. Students are expected to demonstrate a high level of understanding through laboratory reports, aseptic techniques, and field experiences.

Prerequisite: "B" or higher in two years of high school science and/or teacher recommendation.

Mathematics

Suggested Course Sequence

9th	10th	11th	12th
Honors Algebra II	Honors Geometry	Honors Pre-Calculus	AP Calculus, Calculus, or AP Statistics
Algebra II	Geometry	Algebra III, Pre-Calculus or Statistics	Pre-Calculus, Calculus, Statistics or AP Statistics
Algebra I	Algebra II	Geometry	Algebra III, Pre-Calculus or Statistics
Algebra I - Part 1	Algebra I - Part 2	Fundamentals of Geometry	Topics in Mathematics or Fundamentals of Algebra II

323 – Algebra I - Part 1

1.0 Credit

Gr. 9

Algebra I - Part 1 is the first of two one-year courses in the Algebra I sequence. The focus is primarily on mathematical problem solving using linear expressions, equations, and inequalities, both solving and graphing.

Prerequisite: Course enrollment by teacher recommendation only.

324 – Algebra I - Part 2

1.0 Credit

Gr. 10

Algebra I - Part 2 completes the two-year sequence of Algebra I. Investigations will include systems of linear equations and inequalities, and quadratic and exponential expressions, equations, and relationships as a means to assist students in distinguishing between linear and nonlinear relationships. Problem solving skills play a major role in the course, and students will learn how to apply data collected from real world situations. Upon completion of this course, students are required to take the Algebra I Keystone Exam.

Prerequisite: Successful completion of Algebra I - Part 1.

313 – Algebra I

1.0 Credit

Gr. 9, 10

Algebra is a study of the properties of real numbers. Emphasis is placed on manipulating algebraic terms, solving linear equations in one and two variables, and graphing functions and equations. Upon completion of this course, students are required to take the Algebra I Keystone Exam.

Mathematics

313L – Keystone Algebra Lab - Elective

.25 Credit

Gr. 9

The course is designed to promote mastery of Algebra I skills assessed on the Keystone Algebra exam. This course satisfies partial elective credit based on marking period enrollment. This course will be graded on a Pass/Fail basis and will not impact GPA or class rank.

Prerequisite: Course enrollment by teacher recommendation and administrative placement only.

321 – Honors Algebra II

1.0 Credit

Gr. 9, 10

Honors Algebra II is an in-depth study of properties of number systems focusing on linear, quadratic, exponential, and rational functions. Other topics include polynomials, inequalities, complex numbers, radicals, absolute value, and conic sections.

Prerequisites: “B” or higher in 8th grade Algebra I or “A” in 9th grade Algebra I and/or teacher recommendation.

322 – Algebra II

1.0 Credit

Gr. 9, 10

Algebra II continues the study of the properties of number systems focusing on linear, quadratic, exponential, and rational functions. Other topics include polynomials, inequalities, matrices, and conic sections. All students considering post-high school education should successfully complete Algebra II.

Prerequisites: “C” or higher in 9th grade Algebra I, “B” or higher in 8th grade Algebra I, or “B” or higher in Algebra I - Part 2 and teacher recommendation.

326 – Fundamentals of Geometry

1.0 Credit

Gr. 11, 12

This course is designed to develop an understanding of the topics of geometry and apply basic equation solving strategies to find answers. The topics include reasoning in geometry, lines (including parallel and perpendicular), angles, triangles, quadrilaterals, proportion and similarity, polygons and area, circles, surface area, and volume.

Prerequisite: Successful completion of Algebra I - Part 2.

328 – Fundamentals of Algebra II

1.0 Credit

Gr. 10, 11, 12

Students will continue to study the properties of number systems focusing on linear, quadratic, exponential, and rational functions. Other topics include polynomials, inequalities, matrices, and conic sections.

Prerequisites: “C” or higher in Fundamentals of Geometry or “D” in Algebra I and teacher recommendation.

331 – Honors Geometry

1.0 Credit

Gr. 10

Students will understand and apply basic geometric concepts in this course. This course exposes students to (1) the logic used in a formal geometric proof, (2) algebraic applications of geometry, and (3) the interrelationships between geometric figures and their properties.

Prerequisites: “B” or higher in Honors Algebra II or “A” in Algebra II and/or teacher recommendation.

332 – Geometry

1.0 Credit

Gr. 10, 11

Geometry is a course that is designed to develop an understanding of the relationships of angles, lines, the various parts of polygons and circles, and the interrelationships of congruent and similar polygons. These relationships are studied through formal geometric proof and algebraic applications.

Prerequisite: Successful completion of Algebra II or “B” or higher in Fundamentals of Algebra II.

Mathematics

333 - Algebra III

1.0 Credit

Gr. 11, 12

This course offers a review of Algebra I and II, as well as a study of advanced algebra topics. The material from the study of linear and quadratic polynomials is extended to cover higher degree and rational polynomials. Real life applications are integrated throughout to help students make important connections. The material covered provides the background needed to succeed with statistics or a college-level algebra course. Topics covered include but are not limited to: polynomial, rational, exponential, and logarithmic functions.

Prerequisites: "D" in Algebra II and/or teacher recommendation.

345 - Honors Pre-Calculus

1.0 Credit

Gr. 11, 12

This course offers an in-depth study of trigonometry as well as more preparation in advanced algebra and discrete mathematics. Calculus will be introduced as time permits. A graphing calculator is used throughout the course and is required for the study of AP Calculus. Recommended calculators are TI-84, TI-84 plus, or TI-89. A balanced approach emphasizes multiple representations of functions so students can describe functions algebraically, graphically, and verbally. Real life applications are integrated throughout to help students make important connections. Topics covered include but are not limited to: polynomial, power, rational, exponential, logistic, logarithmic and trigonometric functions; analytic trigonometry; and limits. This course serves as the final prerequisite course for AP Calculus or other college-level freshman classes.

Prerequisites: "B" or higher in Honors Geometry and Honors Algebra II and/or teacher recommendation.

343 – Pre-Calculus

1.0 Credit

Gr. 11, 12

This course offers a study of advanced algebra topics, as well as in-depth study of trigonometry. The material from the study of linear and quadratic polynomials is extended to cover higher degree and rational polynomials. The study of trigonometry is a further extension of the skills and processes mastered in algebra. For instance, students learn to solve and graph algebraic equations in algebra. Using the same basic principles, students learn to solve and graph trigonometric equations. Real life applications are integrated throughout to help students make important connections. The material covered provides the background needed to succeed with calculus or other college-level mathematics courses. Topics covered include but are not limited to: polynomial, rational, exponential, logarithmic and trigonometric functions. Students MUST take this course if they plan to take calculus their senior year.

Prerequisites: "C" or higher in Algebra II and Geometry and/or teacher recommendation or successful completion of Algebra III.

349 - Statistics

1.0 Credit

Gr. 11, 12

The purpose of this course is to acquaint students with statistical concepts and techniques needed to collect, organize, measure, and evaluate data. Frequency distributions, probability, sampling techniques and data presentation will be emphasized. Problems will relate to fields of business, health, social science, and leisure activities.

Prerequisites: Successful completion of Algebra II and Geometry and/or teacher recommendation.

359 – Advanced Placement Statistics

1.0 Credit

Gr. 11, 12

Advanced Placement Statistics satisfies all the requirements for the curriculum as designed by the College Board and is equivalent to one semester of college level non-calculus-based statistics. Students who enroll in this course are prepared to take the AP Statistics exam in May. The four major areas covered by the course are exploring data, planning a study, anticipating patterns, and statistical inference.

Prerequisites: "C" or higher in PreCalculus or Honors PreCalculus, "B" or higher in Algebra III, concurrently taking PreCalculus or Honors PreCalculus, and/or teacher recommendation.

348 – Calculus

1.0 Credit

Gr. 12

This course introduces calculus at a moderate rate to high school students who have completed the Pre-calculus course. Pre-Calculus concepts are reviewed and differentiation, integration, and their applications are studied.

Prerequisites: "C" or higher in Pre-Calculus or Honors Pre-Calculus and/or teacher recommendation.

Mathematics

347 – Advanced Placement Calculus

1.0 Credit

Gr. 12

The importance of calculus is that most of the laws of science do not provide direct information about the value of variables and the way those variables might change. Calculus provides a mathematical way, a conceptual framework, for describing relationships that change in physics, chemistry, biology, economics, and even psychology. Calculus utilizes many of the skills learned in algebra, geometry, and pre-calculus. A strong background in algebra is extremely important. Advanced Placement (AP) Calculus is a course designed to offer high school students the chance to earn college credit for taking calculus in high school. The course is taught in a rigorous manner and follows the course outline as suggested by College Board. Students are required to have a graphing calculator for their use during the course throughout the year and on the exam. Suggested calculators are TI-84 plus, TI-89, or Casio fx9860. Students will learn about the derivative of a function in terms of rate of change and local linear approximations and will learn various techniques for differentiating a given function. They will learn about the definite integral as a limit of a sum and as a net accumulation of a rate of change. Being able to model problem situations with functions, differential equations, or integrals, and solving separable differential equations are other topics covered. Students are expected to take the Advanced Placement exam in May.

Prerequisites: “B” or higher in Honors Pre-Calculus and/or teacher recommendation.

352 – Topics in Mathematics

1.0 Credit

Gr. 11, 12

This course is designed to teach students practical mathematics that they will be seeing in their career or post-secondary education. Topics that will be covered include Problem Solving, Algebra, Measurement, Geometry, Statistics, and Consumer Mathematics. This course will include individual and small group activities and presentations, problem solving, and use of technology.

*Prerequisites: Successful completion of Algebra I and Fundamentals of Geometry or successful completion of Algebra I - Part 1, Algebra I - Part 2, and Fundamentals of Geometry and teacher recommendation. ** Students who have successfully completed Algebra II with a C- or better are NOT eligible for this course.*

Business Education

430 – Introduction to Business

1.0 Credit

Gr. 9, 10

Introduction to Business is an introductory course to the world of business and the roles of a consumer, worker and citizen. The importance of basic business skills in the workplace is explored, and the global marketplace is discussed for students' better understanding of the components that make up the business process and economic cycles that affect it. Many personal financial issues will also be explored. This course will serve as a background for other business courses students may elect to take in high school and will assist in preparing them for future employment.

432 – OACTEP - Business Academy (CIP 52.0701)

3.0 Credits

Gr. 10, 11, 12

This new CTE course is focused on creating a generation of young people with the skills, knowledge, and drive to become business leaders and entrepreneurs. The program will meet 3 periods per day for up to 3 years. The OACTEP - Business Academy program places an emphasis on college and career readiness. The program offers students interested in business a competitive edge through project-based, collaborative learning and the development of 21st Century skills including business management, entrepreneurship, financial literacy, technology, global awareness, problem solving, and communication. Students learn business by doing business with coaching from industry professionals and Virtual Enterprises International (VEI).

VEI is a live, in-school global business simulation and entrepreneurship program which is part of a global network of student-run businesses in over 40 countries. VEI replicates all the functions of real businesses in both structure and practice and brings the workplace into the classroom. Under the guidance of a teacher and local business mentors, students create and manage their virtual businesses; learning all aspects from market research, business planning, product development, production and distribution to marketing, sales, human resources, accounting/finance and web design. Upon successful completion of this course, students have the potential to earn industry level certifications and college credits.

Prerequisite for 2nd and 3rd year students: “C” or higher in prior year OACTEP course.

Business Education

435 - Personal Finance

.5 Credit

Gr. 10, 11

This course is a graduation requirement beginning with the class of 2023. Personal Finance is a course designed to help students understand the impact of individual choices on their future financial success. Topics covered will include checking and payment systems, insurance (both vehicle and health), spending habits, credit cards and loans, as well as saving and investing. It is recommended that this course be taken in grade 10. **Students have the option of taking the course face-to-face or online through the Octorara Virtual Academy.**

441DC - Dual Credit Honors Foundations of Business (Offered during 2022-23 school year)

1.0 Credit / 3 College Credits

Gr. 11, 12

This course introduces the world of business. Students will explore business events and economic conditions that affect business. Among the topics studied are the business in a global environment, the various forms of business, the social responsibility of business and the functions of accounting, marketing, management, and human resource management. This course will touch upon all the areas related to a business major in college. This course is intended for students who wish to earn college credit from Delaware County Community College while in high school. See page 18 for further details.



461 – Accounting I

1.0 Credit

Gr. 9, 10, 11, 12

Accounting I is an introductory course designed to provide competency for bookkeeping clerks, bookkeeping for a small business, and accounting knowledge for anyone working in the world of business. Students will learn to analyze, compute, and record business transactions, prepare financial statements, and payrolls. The fundamentals developed are necessary for advanced study in accounting. Accounting is fun to learn and only uses basic math functions.

463DC – Dual Credit Honors Financial Accounting (Offered during 2023-24 school year)

1.0 Credit / 3 College Credits

Gr. 11, 12

Financial Accounting provides students with a comprehensive treatment of the complete accounting cycle for both service and merchandising businesses in accordance with Generally Accepted Accounting Principles (GAAP). This course focuses on accounting systems and concepts, current accounting issues, preparation and analysis of financial statements. This course is designed for the potential accounting or business major in college. This course is intended for students who wish to earn college credit from Delaware County Community College while in high school. See page 18 for further details.



Prerequisite: "C" or higher in Accounting I. (Seniors may take the course without the prerequisite).

480 – Business and Personal Law

1.0 Credit

Gr. 11, 12

This is fundamentally a business law course that also contains topics in personal law. It covers contracts, criminal law, consumer law, wills, estates, marriage and divorce, property law, employment law, cyber law and more. It deals with case analysis, research, and current events.

World Languages

516 - Spanish I

1.0 Credit

Gr. 9, 10, 11, 12

In Spanish I, students begin to use new means of communication. Students will use simple sentences and basic everyday vocabulary (including likes and dislikes, descriptive adjectives, school subjects, numbers, places around town, food, family, clothing, the house, and sports) to express their own ideas in speaking and writing. Students will be encouraged to use trial and error as a necessary process in language acquisition. Students are expected to master the conjugation of AR, ER and IR regular verbs and the most commonly used irregular verbs (ie. tener, ir, ser and estar). The present tense is covered extensively. This course emphasizes the development of the four communication skills (reading, writing, listening, and speaking). Students will be responsible for vocabulary from each chapter and written homework several times per week. Students will be expected to participate in class on a daily basis. They will be required to use Spanish in whole class, small group, and paired activities. Students will also begin to learn about the culture of Spanish-speaking people. Cultural items will span the world including customs from Spain, Mexico, Central America, South America, and the Caribbean. Students will be using an electronic textbook and on line activities and are therefore responsible for bringing their charged device to each class.

526 – Spanish II

1.0 Credit

Gr. 9, 10, 11, 12

In Spanish II, students will build on the vocabulary and structures learned in Spanish I. They will learn more complex sentence structures and begin to discuss specific topics in a normal conversational manner. Students will learn to respond to spoken and written language in the present tense and the two simple past tenses: the preterite and imperfect. Students will be introduced to the progressive tenses and the use of object pronouns. They will increase their knowledge of Spanish-speaking peoples and their cultures by exploring popular customs, music, and leisure activities in different countries. Students are expected to keep organized notebooks and to participate in partner and group activities. Homework is given frequently. In addition, students are encouraged to improve their skills by consistently practicing what they have learned. Various internet activities are available for practice with each chapter. Students will be using an electronic textbook and online activities and are therefore responsible for bringing their charged device to each class.

Prerequisites: "C-" or higher in Spanish I and teacher recommendation is required for students entering 9th grade.

536 – Spanish III

1.0 Credit

Gr. 10, 11, 12

In Spanish III, students will thoroughly review the present and past tenses and move on to command forms and pronoun placement before being introduced to the future tense. They will continue to expand their vocabulary while emphasis is placed on individual expression, both written and spoken. Students are required to do independent writing assignments in and outside of class in addition to frequent smaller homework assignments. In class, students are expected to interact in pairs and small groups in order to provide an optimum amount of speaking and listening time and to become comfortable and confident with the language. Individual presentations will be made throughout the year in the target language. Students will increase their knowledge of the arts and the history of the Spanish-speaking world by reading excerpts from authentic materials. Comprehension skills will be enhanced through the use of videos and CDs, so regular attendance is essential. It becomes increasingly important that students practice what they have learned as grammatical structures and vocabulary become more complex. Internet activities are available for practice with each unit of study. Students will be using an electronic textbook and online activities and therefore are responsible for bringing their charged device to each class.

Prerequisite: "C-" or higher in Spanish II.

World Languages

546 – Honors Spanish IV

1.0 Credit

Gr. 11, 12

In Honors Spanish IV, students will listen to a variety of native speakers from all areas of the Spanish-speaking world via internet resources and film, will speak spontaneously on a number of topics, will read for different purposes and will write on a variety of topics and for a variety of purposes. Grammar from previous years is thoroughly reviewed and students will be required to do more independent writing both in and out of class. They will write narrative, persuasive, creative and informative pieces. Students will begin to study Spanish literature such as an introduction to Don Quixote and a selection of short stories. Students will be required to present speeches and projects to their classmates in Spanish. The cultural studies include current events in Spanish speaking countries and areas visited in the reading materials. Students are encouraged to take the CLEP test at the end of the course so that they may receive college credit.

Prerequisite: "C" or higher in Spanish III.

556 - Honors Spanish V

1.0 Credit

Gr. 12

In Honors Spanish V, students will use language in a number of different situations including class discussions and presentations. Grammar is reviewed and instructed as a tool of communication. Students will read El Cid and explore the history of Spain, as well as study the countries visited in short novels and stories throughout the year. On-line news sources will provide listening activities and the basis for discussion of current events. The four skills of listening, speaking, reading, and writing are fully integrated and the emphasis is on higher order thinking skills. There is a large amount of independent student preparation required, including reading assignments and listening to native speakers via the internet. Students will be required to speak extemporaneously, give impromptu skits, respond to questions and contribute to class discussions on a variety of topics. Since much of the grades are based on class participation, frequent student absences will negatively affect grades. Students are encouraged to take the CLEP test at the end of the course so that they may receive college credit.

Prerequisite: "C" or higher in Honors Spanish IV.

517 – French I

1.0 Credit

Gr. 9, 10, 11, 12

In French I, the student begins to learn to converse in French, to speak and understand it, and to read and write it. Students will use simple sentences and basic everyday vocabulary including foods, family, classroom objects, sports, daily activities, basic conversational expressions, and weather. Students are expected to master the present tense for regular verbs, as well as several common irregular verbs. The immediate future is extensively used and the imperative is introduced at the end of the year. Students will have vocabulary assignments for every chapter, as well as homework. Oral, written and active participation in class are mandatory. Music is used regularly to enhance student learning. Moreover, as a result of directed classroom and outside learning experiences, the student starts to develop an appreciation of French life and culture. Students are encouraged to enhance their appreciation for and understanding of course materials by exploring Internet sites suggested by the teacher.

527 – French II

1.0 Credit

Gr. 9, 10, 11, 12

In French II, students review progress made in French I. They advance in their ability to communicate in oral and written French by increasing knowledge of sentence structure, and vocabulary. Vocabulary covered includes: holidays, adjectives, describing a typical day, leisure activities, and describing movies and books. Grammatical structures include direct and indirect object pronouns, reflexive pronouns, the past tense, and the introduction of the conditional tense. As in French I, students will have vocabulary assignments for every chapter, as well as homework. Oral, written and active participation in class is imperative. Music is used extensively as a way to develop skills in listening, speaking, reading, and writing. Students learn more about French life and customs. As in French I, students are encouraged to enhance their appreciation for and understanding of course materials by exploring internet sites suggested by the teacher.

Prerequisite: "C-" or higher in French I and teacher recommendation is required for students entering 9th grade.

World Languages

537 – French III

1.0 Credit

Gr. 10, 11, 12

In French III, students review progress made in previous study and continue to improve in all areas of communication. They are able to spontaneously create understandable and reasonably correct sentences concerning many everyday situations. Vocabulary covered includes fairy tales, expressing emotions, and describing personal interests. Grammar covered includes the formation and usage of the subjunctive, simple past, comparatives, superlatives, negation, and the future tense. Students read about and discuss a variety of francophone cultures. Music is used extensively as a way to develop listening, speaking, reading, and writing skills. As in levels I and II, students will be able to enrich their own personal study of French on the internet, using sites suggested by the teacher.

Prerequisite: "C-" or higher in French II.

547 - Honors French IV

1.0 Credit

Gr. 11, 12

In Honors French IV, students read and discuss authentic texts in an extensive study of French language and literature which will be continued in Honors French V. They increase their ability to communicate in oral and written French through continuous practice via journals, compositions, classroom discussions, skits, music, and other interactive activities. They continue to improve their knowledge of verbs through a detailed description of their own personal interests. They study French language and formulate intelligent insights regarding human communication in general and French culture in particular. Increased use of the language is stressed and students are exposed to a variety of audio and video sources of French in order to increase their listening comprehension. Students are treated as intelligent, college bound individuals capable of keeping track of a wide variety of long-term assignments and producing them in a timely manner.

Prerequisite: "C" or higher in French III.

557 – Honors French V

1.0 Credit

Gr. 12

In Honors French V, students read and discuss authentic texts in an extensive study of French language and literature continuing from French IV. They increase their ability to communicate in oral and written French through continuous practice via journals, compositions, classroom discussion, skits, music, and other interactive activities. They continue to improve their understanding of all French verb tenses through a detailed study of common verbs. The study of French language and literature gives students the opportunity to fine-tune their ability to analyze facts and formulate intelligent insights regarding human development and French culture in particular. Increased use of the language is stressed and students are exposed to a variety of audio and video sources of French in order to increase their listening comprehension. Students are treated as intelligent, college-bound individuals capable of keeping track of a wide variety of long-term assignments and producing them in a timely manner.

Prerequisite: "C" or higher in Honors French IV.

Family and Consumer Science

657 – OACTEP - Culinary and Baking/Pastry Arts (CIP - 12.0501)

3.0 Credits

Gr. 10, 11, 12

This 3-credit blended Pennsylvania approved Career and Technical Education Program of Study acknowledges the multi-talented approach necessary to compete and excel in the dynamic food and beverage industry. This program will meet for 3 periods per day for up to three years. The senior year may culminate in a Capstone Co-op Experience where students will apply their classroom knowledge and skills to a real world work setting. Whether pursuing a career as a chef, owner, pastry chef, baker, or restaurant manager, this three year program will provide the foundational skills necessary for an entry level position or continued study at an accredited culinary school.

Utilizing core curriculum from Pro Start in conjunction with the National Restaurant Association, the prospective student will explore the foundations necessary to begin an exciting career. Additionally, prospective students will have an opportunity to represent Octorara as part of the Pro Start competition team competing regionally, across the state, with the possibility of national exposure.

Today's food service industry demands well rounded, well versed, and exceptionally talented individuals with skills that transcend and blend the roles of culinary professionals with the artistry and science of the professional baker/pastry artisan. While demanding of both time and talent, this program will reward the student with a well developed skill set and drive for continued excellence. The course will focus on several key aspects including exceptional knife skills, exceptional understanding of ingredients, industry standard equipment utilization, timing, leadership, and communication.

Prerequisite for 1st year students: Successful completion of Learning to Cook or evidence of cooking skills practiced at home.

Prerequisite for 2nd and 3rd year students: "C" or higher in prior year OACTEP course.

Family and Consumer Science

658 - FACS

1.0 Credit

Gr. 9, 10, 11, 12

Students will be exposed to a comprehensive background of Family and Consumer Science. Personal development, time management, interpersonal skills, and relationships will be explored. Budgeting and managing money, handling credit, identity theft, paying bills, handling paychecks, and savings will be learned. Basic parenting and care-giving techniques, along with social and emotional development of children, will be covered. Students will learn to make knowledgeable consumer decisions and discover the effects of proper nutrition and exercise on their own health and well-being. Basic kitchen safety, measuring, and planning meals will be practiced. Clothing care and fashion design will be explored along with learning to use a sewing machine and sewing a beginner project. (Some hands-on experience, but not a lab-based course.)

663 - Learning to Cook

.5 Credit

Gr. 9, 10, 11, 12

Students will learn how to prepare great food while developing essential skills necessary in the kitchen. An emphasis will be placed on food safety as well as a working understanding of the equipment and its proper usage. This course will emphasize the importance of good food prepared simply. The course employs a very hands-on approach, and students should be prepared to be in the kitchen a majority of the time. Additional skills include basic knife skills, measuring techniques, recipe understanding, and a working knowledge of kitchen vocabulary.

662 - Food & Nutrition

.5 Credit

Gr. 9, 10, 11, 12

Students will learn about the food environment, food system, functionality of food in education, source of foods, access, and sustainability. The course will touch on agricultural impacts, social requirements, and the shifting food preferences locally. Additionally, students will have an understanding of our own Nutritional needs and a look at proper balancing of inputs to achieve optimum functionality. This course functions under the premise - Nutrition as Prevention. Students will have a basic knowledge of how the food choices we make now will have lasting and profound impacts. This course utilizes a curriculum developed by John Hopkins University. There is also a lab component to this course, and students should be prepared to work in the kitchen 20% of the time.

Prerequisite: "C" or higher in Learning to Cook or FACS.

673 – Early Childhood Development

.5 Credit

Gr. 9, 10, 11, 12

Students will learn about child development theorists and their impact of the study on child development. Students will study various parenting styles, skills, and changing family structures. The effects of teen pregnancy will be examined. Students will experience the time, energy, and patience required to have a baby. Prenatal development including conception, labor, delivery, associated problems, and potential dangers will be studied. The importance of a healthy lifestyle, in preparation for infants, will be discussed. Students will learn about the physical, social, emotional, and intellectual development of an infant.

671 – OACTEP - Child Care Education (CIP 19.0708)

3.0 Credits

Gr. 10, 11, 12

This 3-credit course is a Pennsylvania approved Career and Technical Education Program of Study which prepares students to work with children in many careers. From daycare to education, from the public sector to private enterprise, students explore a variety of possibilities if their career objective includes children. This Program of Study meets for 3 periods per day for three years. Students receive clinical experience in working with students in the Room-2-Bloom Preschool Program, Head Start Program as well as with students at the Primary Learning Center, Elementary School, and the Octorara YMCA. During the third year of the OACTEP - Child Care Education class, students participate in a student teaching internship. The internship will provide students with "on the job" work experience to gain valuable employment skills and give them the opportunity to learn more about Child Care Education and apply already learned skills. All students enrolled in the Child Care Education program become members of Family and Community Leaders student organization to experience leadership and employability skills. Upon successful completion of this course and the NOCTI exam, students have the potential to earn industry level certifications and college credits.

Prerequisite for 1st year students: "C" or higher in FACS or Early Childhood Development or written essay describing interest in the program.

Prerequisite for 2nd and 3rd year students: "C" or higher in prior year OACTEP course.

Music

700 - Band

1.0 Credit

Gr. 9, 10, 11, 12

This course is a performance class in which students will rehearse and perform a variety of music from the genres of symphonic and marching band literature of a grade 2.5 to 5 literary difficulty (out of 6). In addition, the class will cover performance of major and minor scales, percussion rudiments, music terminology, and ensemble skills. Students are required to participate in all scheduled concerts, parades, sectionals, and special activities. Students will also be required to participate in all rehearsals that are scheduled during the summer. Grading will be based on individual musical preparation, proper execution of scales and rudiments, and an understanding of musical terminology.

Prerequisite: Teacher approval. An audition is required for students who did not participate in Band the previous school year.

702 – Chorus

1.0 Credit

Gr. 9, 10, 11, 12

Chorus provides the student singer an opportunity to rehearse and perform appropriate choral music for three-four major concerts, with additional community appearances. The choral literature includes various styles and arrangements of three-part through eight-part pieces, for voices in categories of soprano, alto, tenor, and bass. All students sing in the voice part which is chosen for them based upon their audition. Grade level does not affect placement. Students will work their way through a theory program, designed specifically for each one of them. Students work at their own rate of speed. Student grades are based upon their personal progress in music theory and on their singing participation in concerts and daily classes. Additional small ensemble opportunities are available after school on an auditioned basis. Participation in an after-school group, while providing enrichment, does not affect a chorus student's grade.

Prerequisite: A willingness to sing. Student audition and teacher approval. Student audition only if student has not participated in Chorus in previous year.

705 – Band/Chorus

1.0 Credit

Gr. 9, 10, 11, 12

Students taking Band/Chorus will follow a rotational schedule, attending each ensemble on alternating days, unless otherwise specified by the course instructors. For specifics regarding the course content, please refer to the descriptions listed under Band and Chorus.

Chorus Prerequisite: A willingness to sing. Student audition and teacher approval. Student audition only if student has not participated in Chorus in previous year.

Band Prerequisite: Teacher approval. An audition is required for students who did not participate in Band the previous school year.

706 – Guitar I

.5 Credit

Fee: \$10.00

Gr. 9, 10, 11, 12

This course is designed as a beginning introduction course in guitar playing. This class will provide a hands-on opportunity to play the guitar. Acoustic guitars will be provided for students to use in class. Students will learn to read staff notation and also receive exposure to tablature. Students will work at their own pace while exploring various music styles, scales, and guitar techniques with individual guidance from the teacher when required. Students with previous guitar experience will be expected to help those students with less experience. Enrollment will be limited to the number of available guitars. Students may provide their own acoustic guitars. Students will be assessed based on performance in recitals both in class and outside of class.

Prerequisites: \$10 string replacement fee is due within the first two weeks of class.

Music

709 – Guitar II (Offered during the 2023-24 school year)

.5 Credit

Gr. 9, 10, 11, 12

This course is offered to those students who have completed Guitar I and would like to continue their study on the instrument. Students will experience a more in-depth look at the musical styles, chords, riffs, scales, and ensembles. Students will also have the opportunity to perform in the band's spring concert. **A \$10 string fee is required of students using the school's guitars.**

Prerequisite: "B" or higher in Guitar I and teacher approval. Students who have not taken Guitar I must get teacher approval before registering for this class.

708 – Music Appreciation (Offered during 2022-23 school year)

.5 Credit

Gr. 9, 10, 11, 12

This course is designed to increase musical understanding and listening skills. Students will recognize different styles, appreciate their different functions, and develop a solid foundation for continued learning in areas of personal interest. Attention will be given to both traditional and contemporary musical styles. Students will have the opportunity to perform any music that they compose and will learn basic performance techniques for most orchestral percussion instruments.

710 – Intro to Music Theory (Offered during 2022-23 school year)

.5 Credit

Gr. 10, 11, 12

The purpose of this class is to give students basic instruction in musical theory and composition. The course content will be equivalent to that of a first semester college level music theory course. Students will demonstrate their ability to read music specifically related to note letter names, note values, intervals, major and minor scales, and chords.

Prerequisites: Instructor approval required. Students must read music fluently in treble and bass clefs.

714 – Solo and Chamber Performance

.5 Credit

Gr. 9, 10, 11, 12

This semester course will give students a designated time to collaborate with the instructor on a prescribed course of study for their instrument or chamber ensemble. Students will develop informed practice schedules to meet these goals in collaboration with the instructor. Students will be expected to progress musically on their instrument. This course is also intended to encourage more students to consider and pursue careers in music.

716 – Piano Lab

.5 Credit

Gr. 9, 10, 11, 12

This course is intended to teach novice musicians about playing the piano. Students will be able to understand music notation and apply the knowledge to the playing of the piano; have a solid understanding of rhythm, dynamics, tempo and other musical characteristics; perform a musical composition in a classroom setting each marking period; perform a duet with another student; understand and play basic chord patterns to common day songs. Students with advanced piano skills may also take this course, though they will be expected to function as peer tutors and to prepare selections of a more advanced level. Advanced students may also explore composition and songwriting in this setting.

Art

771 - Introduction to Art

.5 Credit

Gr. 9, 10, 11, 12

Have you enjoyed art in some way; either creating art or admiring art? This course will develop your art skills, artistic style, and voice. This course is designed to introduce students to various types of fine art with special emphasis on the elements and principles of design. All projects for this course are done in class requiring no homework. With this firm grounding in how to create art, students will then see how art has been created throughout history, focusing on particular art styles, trends, and artists. Students will be able to sample different styles, mediums (from pastel to paint) and processes used by a variety of artists. Additionally, students learn various career paths to which art experience can lend itself. Some projects will be more collaborative in nature to mirror a realistic workforce environment. Students will have the opportunity to enter art contests and participate in art field trips to galleries, museums and/or art schools.

711 - Art Major I

1.0 Credit

Gr. 9, 10, 11, 12

Art Major I is the foundation for further study in art. Therefore, it is the prerequisite to all other art major courses. This course emphasizes the elements of art and the principles of design primarily through a series of 2-D work. The first half of the year is devoted to improving drawing skills (pencil, pen and ink, and charcoal are the mediums that will be used) and composition skills (through the use of digital photography). The second half of the year will focus on color theory using such mediums as acrylics, colored pencil, watercolor, and the computer. Projects include digital photography, still-life studies, layout, drawing, painting, and computer-generated fine art. Grades will be derived from weekly out of class photo/drawing assignments, in class projects, and fine art critiques.

721 – Art Major II

1.0 Credit

Gr. 10, 11, 12

Art Major II further develops the elements of art and principles of design through a series of projects based around the human figure. This class is a great portfolio builder for any student looking to pursue a major in any field of art (fine art, graphic design, photography, sculpture, etc.). Grades are based on a mixture of in and out of class projects, and written and spoken critiques.

Prerequisite: “C” or higher in Art Major I.

720 – Pop Art

1.0 Credit

Gr. 10, 11, 12

Pop art is a movement that sprung up in the late 50’s, which uses objects from mass current culture combined with traditional and non-traditional art mediums to communicate an idea to its viewer. This course will help explore current themes in art through a variety of art creating methods to make people stop and think about what you are visually saying. Although this art course does not rely on strength in drawing skills, this is for the mature student who has a basic knowledge of fine arts and wishes to develop more thoughtful and conceptual art styles. Students will delve into art projects inspired by the world of tattooing, alternative movie posters, and album artwork (to name a few) and explore new ways to combine his/her favorite art methods. Students will also have the opportunity to enter art contests, participate in art field trips, and interact with local artists.

Prerequisite: “C” or higher in Art Major I.

724 – Advanced Placement Studio Art 3-D Design

1.0 Credit

Gr. 11, 12

Do you find enjoyment from creating artwork by hand; building, sculpting, carving, recreating a scene outside, taking over a room with an installation, or placing odd items together to create a new work of art? This may be the course for you. This is a college level course which follows a format similar to AP Studio Art 2-D Design; but instead, students will be applying design concepts to sculpture. This course follows a more intense schedule where students will be expected to produce a minimum of 1 project every 2 weeks. Students will further their technique and understanding of the principles of art in the three-dimensional realm. Students are expected to develop mastery in concept, composition, and execution of ideas addressing sculptural issues. Students are then required to demonstrate their knowledge of the principles of design and how to apply these to the elements of art with emphasis on space and depth in order to create successful and dynamic 3-D artwork. Students will be utilizing their artistic strengths to create a series of artwork which will investigate a self-directed theme. This course is intended for students who have demonstrated a strong knowledge of the design process and who are willing to devote considerable time creating a variety of sculptures. Upon the successful completion of this course, students will have exhibited their best artworks, found their own means of expression, and submitted a portfolio of artwork to the College Board earning Advanced Placement (AP) credits that can be applied to college. Students interested in this course must pick up the “summer assignment” packet in May of the year previous to which they want to enroll.

Prerequisites: “C” or higher in Ceramics II or Pop Art or Art Major II and/or teacher recommendation.

725 – Advanced Placement Studio Art 2-D Design

1.0 Credit

Gr. 11, 12

Art 2-D is a college level course and offers the ability to earn college credits. A student's objective will be to create a portfolio of 15 pieces of artwork based on one inquiry that they choose to develop throughout the series of work. Students will also investigate a variety of mediums to discover new favorites; develop self-directed inquiry, and build skills needed to pursue their chosen topic. Most students who take this course have grown in their artistic confidence and are impressed and proud of the quality of artwork created, surpassing their wildest expectations. Students interested in this course must pick up the "summer assignment" packet in May of the year previous to which they want to enroll. These summer assignments will be reviewed during the first week of school. This course is recommended as the first in the series, if a student has not taken an AP Art course before.

Prerequisites: "C" or higher in Art Major II or Pop Art and/or teacher recommendation.

726 – Advanced Placement Studio Art Drawing

1.0 Credit

Gr. 11, 12

Do you find yourself filling up sketchbook after sketchbook with all of your drawings? This may be the course for you. This is a college level course which follows a format similar to AP Studio Art 2-D Design, yet students will be utilizing drawing, painting, and other mark-making techniques more in depth. Consequently, this course will follow a more intense schedule where students will be expected to produce a minimum of 1 project every 2 weeks. Students will further their technique and understanding of the principles of art through various drawing styles, art movements, many observational studies, perspective concepts, color mixing, and building on many other 'mark-making' skills. Students will be utilizing their strengths as an artist to create a series of artwork which will investigate a self-directed inquiry. This course is intended for students who have excellent drawing skills, who have been successful with composition, and who have demonstrated a strong knowledge of the design process. Students must be willing to devote considerable time creating a variety of artwork. Upon the successful completion of this course, students will have exhibited their best artworks, found their own means of expression, and submitted a portfolio of artwork to the College Board earning Advanced Placement (AP) credits that can be applied to college. Students interested in this course must pick up the "summer assignment" packet in May of the year previous to which they want to enroll. It is strongly recommended students complete AP 2-D Design before enrolling in this course.

Prerequisites: "C" or higher in Art Major II or Pop Art and/or teacher recommendation.

738 - OACTEP - Graphic Design & Illustration (CIP 50.0402)

3.0 Credits

Gr. 10, 11, 12

This 3-credit course is for students who want to "major" in Graphic Design & Illustration while still in high school. The program will meet 3 periods per day for up to 3 years. The senior year may culminate in a Capstone Co-op Experience where students will apply their classroom knowledge and skills to a real world work setting. In this course students will be given projects that will incorporate all aspects of graphic design. Using the principles of design and color theory, along with use of typography and layout, students will learn how to promote, brand, print, and save images for use on the web and for print using the industry standard Adobe Creative Suite. This course uses research and investigation to solve problems from multiple perspectives through experimenting and conceiving solutions. Through this research, students will learn about current industry practices and will in turn be able to prepare their portfolios so that they are able to enter the workforce directly after High School (if they so desire). Students will also learn how to produce the fine art pieces that are needed for their college entrance portfolio reviews. Upon successful completion, students may earn the following certification: PA Skills Certificate. Join a class that's more than just school... it's a lifestyle!

OACTEP - Graphic Design & Illustration students must concurrently enroll in Graphic Design & Printing I and Photography Technology I during either their 11th or 12th grade year.

Prerequisite for 2nd and 3rd year students: "C" or higher in prior year OACTEP course.

740 – Illustration/Graphic Design I

.5 Credit

Gr. 9, 10, 11, 12

If you are creative, hardworking, and love the computer, but can't draw really well (if you can that's even better), then this half year course is for you. Students will learn the "tricks" behind making stuff that looks "cool". Students will spend their time in our state-of-the-art design lab using programs such as Adobe Illustrator, Adobe Photoshop, and Adobe InDesign. Students will be introduced to typography, design concepts, industry standards, and a visual vocabulary. Students wishing to continue their study in graphic design should sign up for CTP - Graphic Design & Illustration or Illustration/Graphic Design II course.

741 – Illustration/Graphic Design II

.5 Credit

Gr. 9, 10, 11, 12

Continue your study in graphic design with Illustration/Graphic Design II. This class is set up like the first semester course, and through a series of different projects, you will learn and expand your knowledge of the Adobe Creative Suite. If you decide that this is the career field for you, sign up for the 3 credit OACTEP - Graphic Design & Illustration course the following year - earning your PA Skills Certificate and OSHA Certification.

Prerequisite: Successful completion of Illustration/Graphic Design I.

751 – Ceramics I

.5 Credit

Fee: \$15.00

Gr. 9, 10, 11, 12

Are you a 'hands on' type of person? Students in this studio art course will explore the properties of clay that make it valuable to the artist. Both hand built and wheel thrown methods of clay construction are explored, and a variety of finishing and glazing techniques are taught. Hand building techniques will consist of coil, slab, and pinch methods. A coil contest will be offered where students can creatively compete to earn an automatic "A". This course is perfect for a student who wishes to try a wide range of ceramic methods at an introductory level.

752 – Ceramics II

.5 Credit

Fee: \$15.00

Gr. 9, 10, 11, 12

Have you completed the basic ceramics course and want to further develop your skills in this area? Take this ceramics course, especially if you tried Ceramics I and fell in love with clay as an art medium. This course exposes you to new ways to use this medium. You will build upon all of your Ceramic I knowledge. You will learn how to trim and use footing techniques to further enhance pieces. At this level, you will be able to explore different clay bodies as well as more intricate ceramic techniques. Additionally, you will have the opportunity to create much larger ceramic forms as well as obtaining more wheel throwing experience. Projects gradually become more challenging but are still based around you being a beginner with this clay medium. Seniors: Inquire about being a "featured artist" in this year's senior art show.

Prerequisite: "C" or higher in Ceramics I.

754 – Ceramics III

.5 Credit

Fee: \$15.00

Gr. 10, 11, 12

This semester course will provide an excellent opportunity for the serious ceramic student to experiment with and improve his/her hand building and wheel throwing techniques. The student will also work with special effect glazes and experiment with his/her own glaze creations. Past students of these courses have successfully sold their ceramic artwork. At the end of this course, students will become more independent with emphasis on an individual contract in which a student may explore a subject matter of his or her choice. Projects are quite involved and require research. Senior students are expected to have a one-person exhibit of their work held in one of the Octorara Art Gallery spaces. Students are also required to photograph and submit a digital portfolio of their work for the permanent collection. Students will leave this course having created a personalized business card and holder, in addition to their professional digital portfolio and exhibit of their ceramic work.

Prerequisite: "C" or higher in Ceramics II.

774 – Ceramics - Wheel Throwing Studio

.5 Credit

Fee: \$15.00

Gr. 10, 11, 12

If you have enjoyed pottery throwing in previous classes, this class is perfect for you. This course is designed to allow students continuous wheel throwing experience while producing professional artistic pieces that can be sold on sites like Etsy. Students will work independently, designing and producing their own wheel thrown projects while learning how to use form to intrigue viewer's interest and a variety of glaze techniques to unify pottery pieces. We will refine and enhance your current skills with advanced techniques of; joining thrown pieces together, wax resist, professional level glazes, trimming, and much more.

Prerequisite: "C" or higher in Ceramics I, II, & III.

Art

772FA – Studio Art/Fine Arts

.5 Credit

Gr. 11, 12

This semester class provides an opportunity for serious art students to expand their portfolio while exploring their own chosen media and projects. Students must have two years of previous art experience, a familiarity with a variety of art media, and a high degree of confidence in at least one media. Students should have a serious attitude about art. Students will maintain a sketchbook/journal with weekly entries and thumbnail sketches for each project before beginning the final. Each student must create 4-6 original art pieces per marking period and participate in written and spoken art critiques. Students may take multiple studio art classes throughout the course of the year. **Attention: Using copyrighted images in a design is NOT ALLOWED - all work MUST be original.**

Prerequisite: "C" or higher in Art Major I and Art Major II or Pop Art.

772GD – Studio Art/Graphic Design

.5 Credit

Gr. 11, 12

This semester class provides an opportunity for serious design students to expand their portfolio while exploring their own chosen media and projects. Students must have previous design experience, a familiarity with the Adobe Creative Suite, and a high degree of confidence in at least one Adobe program. Students will need to create thumbnail sketches for each project before beginning the final. Each student must create at least one original project/week and participate in written and spoken art critiques. Students may take multiple studio art classes throughout the course of the year. **Attention: Using copyrighted images in a design is NOT ALLOWED - all work MUST be original.**

Prerequisite: "C" or higher in Illustration/Graphic Design II or OACTEP - Graphic Design & Illustration.

Technology Education

800 - Introduction to Technology

1.0 Credit

Gr. 9, 10

This STEM related course is designed to expose students to various STEM career fields and technical skills. Each quarter students will rotate to experience different introductory level career and technical programs in Agriculture, Graphic Design and Printing, Engineering, and Woodworking. Each of these programs focuses on project based learning, hands-on learning, employability skills, and problem solving experiences.

Students will take each of the following programs on a quarterly rotation:

▶ Woodworking

This introductory course offers experiences in the safe utilization of essential woodworking hand and power tools. Students will learn basic woodworking techniques through the completion of required projects.

▶ Agriculture

This course is designed to introduce students to the agriculture industry. Topics presented include plant science, animal science, and agriculture mechanics. Some classroom time will be devoted to hands-on projects with animals and the care of animals, hydroponics and aquaponics systems, solar energy, small engines, and structural systems.

▶ Graphic Design and Printing

Students use a variety of graphic design and printing techniques to produce individualized products as well as other graphics-based products.

▶ Drafting Technology

Students will create single and multi-view drawings using basic drafting tools. Students will also be introduced to simple robotics and the AutoCAD software, a state-of-the-art computer-aided engineering program.

Technology Education

808 – OACTEP - Woodworking Technology (CIP 48.0703)

3.0 Credits

Gr. 10, 11, 12

This 3-credit course is a Pennsylvania approved Career and Technical Education Program of Study for students interested in fine woodworking careers. This Program of Study meets for 3 periods per day for up to 3 years. The senior year may culminate in a Capstone Co-op Experience where students will apply their classroom knowledge and skills to a real world work setting. Students learn hands on skills through the completion of work-based projects that introduce various methods of surfacing, cutting, shaping, joining, assembling, finishing, and installation. Upon graduation, students have the knowledge required to safely set up, maintain, and operate technically sophisticated equipment required for finish carpentry, architectural millwork, or furniture and cabinetmaking professions. All students enrolled in the Woodworking Technology program become members of the SkillsUSA student organization to experience leadership and employability skills. Upon successful completion of this course, students have the potential to earn industry level certifications and college credits.

Prerequisite for 2nd and 3rd year students: "C" or higher in prior year OACTEP course.

810 – Woodworking Technology I

1.0 Credit

Gr. 10, 11, 12

This course offers experiences in the safe utilization of essential woodworking hand and power tools. The systems of cutting, shaping, smoothing, jointing, fastening, and finishing will be explored. Measuring, layout, job planning, and estimating will require basic math and mechanical drawing skills for success. Students will construct a series of required projects in order to develop basic level skills prior to selecting their own project.

Recommended: "C" or higher in Introduction to Technology.

811 – Woodworking Technology II/III

1.0 Credit

Gr. 11, 12

This course will require students to apply previous knowledge and develop new skills in the area of woodworking. Measuring, layout, job planning, and estimating will require basic math and mechanical drawing skills for success. Appropriate methods of joinery will be studied and incorporated in the design and assembly of related projects. Students will be exposed to advanced power tool operations. Students will work both cooperatively and individually to complete required projects. At the completion of the required projects, students will be allowed to construct a pre-approved project of their own.

Prerequisite: "C" or higher in Woodworking Technology I.

814 - OACTEP - Engineering Technology (CIP 15.1301)

3.0 Credits / Up to 6 College Credits

Gr. 10, 11, 12

This 3-credit course is a Pennsylvania approved Career and Technical Education Program of Study which prepares students to apply technical knowledge and skills to the basic aspects of planning, preparing and interpreting architectural, structural, electrical, topographical and other drawings and sketches used in various architectural and engineering fields. This Program of Study meets for 3 periods per day for up to 3 years. The senior year may culminate in a Capstone Co-op Experience where students will apply their classroom knowledge and skills to a real world work setting. Instruction is designed to provide experiences in real world design software using AutoCAD and SolidWorks for production of architectural drawings. In addition to digital modeling, students create physical models to understand special relationships. Students who successfully complete the program will have the opportunity to work as entry level CAD-Technicians with mechanical, architectural, and civil drafting professionals. Students may also work in many related careers such as surveying, construction estimating, and specification writing. All students enrolled in the Engineering Technology program become members of the TSA (Technology Students of America) student organization to experience leadership and employability skills. Upon successful completion of this course, students have the potential to earn industry level certifications and up to 6 college credits through Delaware County Community College. See page 18 for details about this dual credit opportunity.

Prerequisite for 2nd and 3rd year students: "C" or higher in prior year OACTEP course.

815 - Architectural Drafting I / CAD

1.0 Credit

Gr. 10, 11, 12

Introductory study of the theory, history, principles and practice of architecture with basic principles of architectural analysis, criticism and aesthetic principles. Includes the roles and responsibilities of the design professions, including interior design, landscape architecture, urban planning and engineering and how they relate to each other. Students learn and apply both computer-aided and traditional drafting procedures and techniques used to produce basic residential drawings from the foundation level through elevations. Computer manipulation is an important aspect of this course.



Technology Education

816 – Architectural Drafting II/III / CAD

1.0 Credit

Gr. 11, 12

Students develop advanced residential drafting procedures and may incorporate commercial drawing experiences. In depth computer technology application is emphasized with 2-D and 3-D communication and presentation techniques as used in architecture. Also this course will explore basic model building with the use of drawings as a problem abstraction and diagramming technique along with characteristics, properties, and applicable standards of construction materials.

Prerequisite: “C” or higher in Architectural Drafting I/CAD.

825 – Computer Aided Drawing & Engineering I

1.0 Credit

Gr. 10, 11, 12

Any student considering engineering as a career should take this course. Students learn to use both computer-aided and traditional drafting techniques to draw representations of objects in two-dimensional space, three-dimensional space, section drawings, and development drawings. Students will learn how to create three view representations of basic objects and then create three-dimensional objects from multiple views. Computer use is an integral part of this course.

826 – Computer Aided Drawing & Engineering II/III

1.0 Credit

Gr. 11, 12

Students will explore engineering principles and develop critical thinking and problem solving skills. Students will work with the more advanced features of the CAD software to engineer their solutions. Teamwork, planning, and communications will be emphasized throughout the course. Areas of study will include transportation and manufacturing.

Prerequisite: “C” or higher in Computer Aided Drawing & Engineering I.

832 – OACTEP - Computer Technology (CIP 15.1202)

3 Credit

Gr. 10, 11, 12

This 3-credit course is a Pennsylvania approved Career and Technical Education Program of Study that prepares students to apply basic engineering principles and technical skills in support of professionals who use computer systems. This Program of Study meets for 3 periods per day for three years. It includes instruction in basic computer design and architecture, programming, problems of specific computer applications, component and system maintenance and inspection procedures, hardware and software troubleshooting, and repair and report preparation. In addition, network and computer systems administrators are responsible for the day-to-day operation of an organization's computer network. Students will learn how to organize, install, and support an organization's computer system, including local area networks (LANs), wide area networks (WANs), network segments, intranets, and other data communication systems. Students in this course will develop competence in contemporary IT applications to pursue careers as a help desk technician, network technician, hardware/software sales consultant, or system administrator. Students will be applying work-based learning experience using engineering principles and technical skills to actually fix and troubleshoot student Chromebooks and computers at our new Student Help Desk in the HUB. Upon successful completion of this course, students have the potential to earn industry level certifications and college credits.

Prerequisite for 2nd and 3rd year students: “C” or higher in prior year OACTEP course.

833 – Computer Science Principles

1.0 Credit

Gr. 9, 10, 11, 12

Computer Science Principles is part of the Amazon Future Engineer program, which introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in.

Technology Education

834 – Introduction to Computer Science - Python Coding

.5 Credit

Gr. 9, 10, 11, 12

The Introduction to Computer Science - Python Coding course is part of the Amazon Future Engineer program, which covers the basic building blocks of programming along with other central elements of computer science. It gives a foundation in the tools used in computer science and prepares students for further study in computer science. The course allows students to work independently in text-based Python and in EarSketch, the musical coding platform designed by Georgia Tech, which is integrated throughout the course.

835 – Introduction to Drone Operations

.5 Credit

Gr. 10, 11, 12

Students will learn a variety of coding languages, including the basics of Block and Python coding using the Drone-Blocks curriculum platform and application. Students will learn how to program their drone and will test and execute their code on small indoor friendly drones that will fly autonomously in the classroom. Students will also learn about flow-based programming with Node-RED for drones. Node-RED is a powerful visual editor for developing custom software and can be used for building advanced drone missions. Students will also learn to fly drones manually, in and out of the classroom, to capture still and motion photography for visual communication applications. Photo editing software such as Adobe Photoshop and Lightroom will be used for still photography editing and iMovie and Adobe Premiere will be used for video production and editing.

Recommendation: Successful completion of Algebra I.

863 – Graphic Design & Printing I

.5 Credit

Gr. 9, 10, 11, 12

Graphic design and printing go hand in hand. Students will learn the basics of graphic design (typography, logos, and poster / advertisement design) and how the printing technologies used to reproduce those designs are affected. The design processes explored in this class include, but are not limited to, experience in Adobe InDesign, Illustrator, and Photoshop. The printing technologies explored in this class include, but are not limited to, screen printing, offset printing, photography, and relief printing as well as digital printing methods. **There is a materials fee of \$10 for this course in order to cover supplies and ink.**

864 - Graphic Design & Printing II/III

.5 or 1.0 Credit

Gr. 10, 11, 12

Advanced Graphic Design & Printing students will be expected to expand their skills in graphic design, desktop publishing, typesetting and printing technologies. Multi-color screen printing techniques, half-tone screen printing techniques, and offset printing techniques will be explored as well as advanced techniques in Adobe InDesign, Illustrator, and Photoshop. Students enrolled in this class will also produce products for school clubs and activities as well as other “real-world” design and print projects as needed throughout the year. **Students will pay a one time lab fee of \$20 to cover supplies and ink. Additional products may need to be purchased to meet the needs of each student’s aspirations.**

Sophomore Prerequisite: “C” or higher in Graphic Design & Printing I.

Junior/Senior Prerequisite: May skip Graphic Design & Printing I with Art/Tech Ed teacher written recommendation and/or portfolio review with instructor.

878 - Photography Technology I

.5 Credit

Gr. 9, 10, 11, 12

This semester-long course is devoted to learning the visual aspects of communicating a message. This course is an introduction to photography, which will include instruction and experience in using adjustable 35mm film cameras, digital cameras, darkroom processes, and computer photography processes. Project expectations will include shooting and processing of multiple subjects, individual film processing, printing & enlarging, computer processing and editing, and mounting of finished prints. Students will be expected to complete a variety of photo projects as well as homework assignments, quizzes, tests, and written reports. Students will pay for all materials used in this course. Students must have their own digital camera with shutter and aperture control settings. If purchasing a new point and shoot camera, students should expect to spend around \$200. Please contact Mr. Lauletta, plauletta@octorara.org, with any questions regarding this requirement. **If purchasing a new camera, please wait until the first week of school in order to receive camera specifications from the instructor.** **There is a materials fee of \$10 collected at the beginning of the course in order to cover supplies and ink. Some students may choose to purchase additional supplies as needed.**

Technology Education

879 – Photography Technology II/III

.5 or 1.0 Credit

Gr. 10, 11, 12

Advanced photography students will be expected to expand their skills in photographic technologies. Darkroom effects and camera manipulations will be used to further understand the professional field of photography. Digital photography will be advanced in this class. Students will pay for all materials used in this course. Students must have their own digital SLR camera with variable f-stops and shutter speeds. Film cameras are not mandatory for this class. If purchasing a new digital SLR camera, students should expect to spend at least \$500. Please contact Mr. Lauletta, plauletta@octorara.org, with any questions regarding this requirement. **If purchasing a new camera, please wait until the first week of school in order to receive camera specifications from the instructor.** **There is a materials fee of \$20 collected at the beginning of the course in order to cover supplies and ink. Some students may choose to purchase additional supplies as needed.**

Sophomore Prerequisite: "C" or higher in Photography Technology I.

Junior/Senior Prerequisite: May skip Photography Technology I with Art/Tech Ed teacher written recommendation and/or portfolio review with instructor.

848 - OACTEP - Animal and Plant Science Technology (CIP 01.0301)

3.0 Credits

Gr. 10, 11, 12

This 3-credit course is designed for students who are motivated to pursue a career in the progressive animal science and plant science fields. Areas of study include agribusiness, animal science, biotechnology, career development, food science, forestry, leadership, natural resource management, and plant and soil science. This includes instruction in pre-vet, animal health care, and the psychology and behavior of animals. Students can experience working in an aquaculture laboratory to enhance STEM education and have the opportunity to participate in specialized training and experiences in the equestrian industry. Students in this program will also become members of the National FFA Organization to experience leadership and employability skills. This is an intensive program where students will meet 3 periods per day for 3 years. The senior year may culminate in a Capstone Co-op Experience where students will apply their classroom knowledge and skills to a real world work setting. Upon successful completion of the three-year program, seniors may be awarded 2 science credits towards their high school graduation requirements. Students have the potential to earn industry level certifications and college credits.

Prerequisite for 2nd and 3rd year students: "C" or higher in prior year OACTEP course.

850 - Plant Science

1.0 Credit

Gr. 10, 11, 12

The Plant Science course provides a foundation of plant science knowledge and skills. Students will experience various plant science concepts through hands-on activities, projects, and problems. Student experiences will include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students will learn how to apply scientific knowledge and skills to use plants effectively for agronomic, forestry, and horticultural industries. Students will discover the value of plant production and its impact on the individual, the local, and the global economy. Students will work on major projects and problems similar to those that plant science specialists, such as horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists, face in their respective careers.

Prerequisite: Successful completion of Biology.

853 – Animal Science

1.0 Credit

Gr. 10, 11, 12

The major focus of the Animal Science course is to expose students to agriculture, animal science, and related career options. Students participating in the Animal Science course will have experiences in various animal science concepts with hands-on activities, projects, and problems. Students' experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional, and world markets.

Prerequisite: Successful completion of Biology.

Technology Education

854 – OACTEP - Mechanical Systems Technology (CIP 01.0201)

3.0 Credits

Gr. 10, 11, 12

This 3-credit course is a Pennsylvania approved Career and Technical Education Program of Study designed to introduce students to a variety of career skill sets. This is a rigorous Program of Study that follows the national CASE curriculum and meets for 3 periods per day for up to 3 years. The senior year may culminate in a Capstone Co-op Experience where students will apply their classroom knowledge and skills to a real world work setting. Students gain experience in careers related to welding; small and large engines maintenance and repair; metal fabrication; building construction; plumbing; electrical wiring; and maintenance of agricultural machinery, global positioning systems, and equipment. This is a project based course in which students are exposed to rigorous curriculum and construct and design projects in the mechanics lab that relate to the concepts learned in the classroom. All students enrolled in OACTEP - Mechanical Systems Technology become members of the National FFA (Future Farmers of America) student organization to experience leadership and employability skills. Upon successful completion of this course, students have the potential to earn industry level certifications and college credits.

Prerequisite for 2nd and 3rd year students: “C” or higher in prior year OACTEP course.

862 - FFA Leadership/Supervised Agricultural Experience I/II/III

1.0 Credit

Gr. 10, 11, 12

This course emphasizes development of personal growth and a variety of leadership, agribusiness management, employability, communication, public speaking, and community service skills, through leadership activities, service learning, competitive events, and conferences held at the local, state and national level. Preparation of applications for various awards and degrees at the local, state, and national level will also be covered. Students are required to become “dues paying” members of the National FFA Organization. All students are required to develop, implement, and conduct a Supervised Agricultural Experience project. The SAE is a year-long project that involves receipt and expense records, labor records, project goal setting, project analysis, and budgeting. SAE projects may be selected from one of the following types: agricultural production, job placement, wildlife, research, entrepreneurship, or practicum skills.

Prerequisite: Successful completion of an Agriculture course (or the Agricultural unit of Intro to Technology) or concurrent enrollment in an Agriculture course.

891 - OACTEP - Homeland Security and Protective Services (CIP 43.9999)

4.0 Credits

Gr. 10, 11, 12

The Octorara Homeland Security and Protective Services Academy (OHSPSA) is an approved PA Department of Education Career and Technical Education Program of Study available to students in grades 10, 11, and 12 for every Chester County school. The Academy is a part-time school of choice specializing in careers for pre-hospital emergency medical care, emergency medical technician (EMT), firefighting, emergency management, law enforcement, corrections, and military services. This program of study prepares individuals to apply technical knowledge and skills required to perform entry level duties as a firefighter, emergency medical and first aid responder, security, corrections, as well as various other occupations which encompass the broad spectrum of public safety. The program stresses techniques, methods, and procedures associated with emergency responses. Upon completion, students have the ability to earn up to 64 state and national job-related certifications, which directly transfer to college credits and/or military promotion. The Academy is a half day program located at the Chester County Emergency Services Training Center in Coatesville. For more information about OHSPSA, please visit the following link:

<https://pa50000610.schoolwires.net/Page/470>

Prerequisite for 2nd and 3rd year students: “C” or higher in prior year OACTEP course.

Health and Physical Education

923Ex - Physical Education Athletic Exemption

No Credit

Gr. 10, 11, 12

Students may satisfy .5 credit of required physical education electives through involvement in interscholastic athletics or other approved alternative PE programs (Building Principal approved). Students must participate in at least one athletic season in order to be eligible. Interested students must complete an application during the scheduling process throughout the spring semester prior to the school year they intend to use it. Applications can be found on the high school website or in the counseling office. Students who do not continue on an athletic team for the entire season, are not selected for a team, or otherwise discontinue their involvement in a school or community-based alternative PE program will be required to recover the lost PE credit in a subsequent semester. Second-semester seniors faced with recovering PE credits must do so through the high school's physical education classes to improve the likelihood of graduating on time. Students will NOT receive a grade or credit for this option. Therefore, it will NOT impact a student's GPA or honor roll. Students will need to replace this .5 credit with another elective course.

951 – Adaptive Physical Education

.5 Credit

Gr. 9, 10, 11, 12

This course is for students unable to meet regular physical education requirements due to physical limitations/handicap or doctor's recommendation. This course is designed to meet the individual needs of the student and will follow the regular curriculum as closely as possible.

921 (M/F) - Physical Education 9

.5 Credit

Gr. 9

Physical education is taught to all 9th grade students in co-educational classes with the emphasis on team sports. The units being taught include: football, physical fitness, softball, volleyball, basketball, soccer, aerobics, lacrosse, team handball, weight training, and recreational games.

Students will be able to:

- Apply physical education to life.
- Demonstrate knowledge and skills that better enable participation in group and team activities.
- Assess physical levels and participate in activities that improve fitness, wellness, and cardiovascular capacity.

PE Athletic Exemption may not replace this course.

900 - Health

.5 Credit

Gr. 9

Health is taught to all 9th grade students in co-educational classes. The units taught include: alcohol, community health, disease control, drugs & narcotics, family living, human sexuality, mental health, nutrition, physical fitness, smoking, environmental issues, and communicable diseases.

Students will be able to:

- Understand how to live an emotionally and physically healthy life.
- Develop positive relationships with self and others including self-esteem, coping skills, adaptability to change, and making and maintaining friends.
- Understand the risks associated with drugs, tobacco, and alcohol and the preventable behaviors to help avoid sexually transmitted diseases, cancer, and heart disease.

PE Athletic Exemption may not replace this course.

953 - Strength and Conditioning - Elective

.5 Credit

Gr. 10, 11, 12

Strength and Conditioning is a program of weight bearing exercises and physical conditioning. This class will be centered in the fitness center. Students learn to use both resistance training and aerobic exercise to gain muscle mass, mobilize joints, and improve cardiovascular and pulmonary fitness. Students will also utilize previously learned health concepts to design personal plans that pertain to their overall wellness and individual goals.

954 - Advanced Physical Education - Elective

.5 Credit

Gr. 10, 11, 12

Students will be exposed to various team and lifetime sports, as they would in the general physical education curriculum. This course will allow the students to explore these activities using more in-depth rules and strategies, at a high level of competition. Students will be engaged in peer teaching, officiating, strategizing, and competitive play within the parameters of the rules of the game. This will expose students to the following career pathways: teaching, officiating, and coaching.

Health and Physical Education

955 - Yoga - Elective

.5 Credit

Gr. 10, 11, 12

This course is designed to introduce students, safely and slowly, to the basic postures, breathing techniques, and relaxation methods of yoga. Students will begin to experience the benefits of stretching, moving, and breathing freely as they relieve built up stress, learn to relax, and ultimately get more out of day-to-day life. The aim of this course is to promote vibrant health and to tap the body's latent energy reserves.

Special Education

915 - Open Enrichment/Study Skills

1.0 Credit

Gr. 9, 10, 11, 12

Open Enrichment/Study Skills provides a small-group setting where students get individual academic support from their IEP case manager (or other special education teacher), complete necessary progress monitoring on their IEP goals, and review study and organizational skills. Students will work on homework/long term assignments and track grades in PowerSchool. Students will also have lessons in executive functioning skills, transition planning, advocating for oneself, and basic employability/ classroom skills.

Prerequisite: Course enrollment by administrative placement only.

920 – Transitions

1.0 Credit

Gr. 11, 12

Students become active participants in planning and pursuing their post-secondary education and employment goals. By investigating careers, students research the educational requirements (vocational/technical school, 2- or 4-year college) and necessary employment skills to enter their selected fields. An individual plan is developed to assist the students. Students identify how to improve their performance, learning, and skills so that they are stronger candidates for their chosen fields. Additionally, independent living skills are addressed, including finance, community, safety, self-advocacy, self-determination, and coping skills.

Prerequisite: Course enrollment by administrative placement only.

912 – Open Enrichment/ Emotional Support

1.0 Credit

Gr. 9, 10, 11, 12

Open Enrichment/Emotional Support provides a small-group setting where students get individual behavioral / emotional support in the areas of emotional regulation, conflict resolution, emotional intelligence, positive behavioral management, and self-awareness. Students are also introduced to mindfulness meditation - a mental training practice that involves focusing your mind on your experiences (emotions, thoughts, and sensations) in the present moment. Mindfulness meditation can involve breathing practice, mental imagery, awareness of body and mind, and muscle and body relaxation.

Prerequisite: Course enrollment by administrative placement only.

947 - Open Enrichment/Social Skills

1.0 Credit

Gr. 9, 10, 11, 12

Open Enrichment/Social Skills provides a small-group setting where students get individual academic support from their IEP case manager (or other special education teacher), complete necessary progress monitoring on their IEP goals, self-advocacy and review social and behavioral regulation skills. Students will work on homework/long term assignments and track grades in PowerSchool.

Prerequisite: Course enrollment by administrative placement only.

Special Education

916 – Math Enrichment

1.0 Credit

Gr. 9, 10, 11, 12

Math enrichment promotes the success of students in their general education math classes. In small group settings, students receive direct instruction and supervised practice in topics and skills that directly parallel their present general education math curricula. Specially designed instruction addresses specific areas of a student's weakness or skills deficits through one-on-one instruction and individually programmed remedial activities.

Prerequisite: Course enrollment by administrative placement only.

028 – Intensive Reading and Writing

1.0 Credit

Gr. 9, 10, 11, 12

This course provides students with an intensive approach to reading and writing. Students read and respond to various genres in literature and informative text. They learn strategies that assist them to understand a variety of texts, applying the strategies throughout all academic classes. Students work in small groups at their current performance level to improve decoding, reading fluency, comprehension, and written expression skills.

Prerequisite: Course enrollment by administrative placement only.

028En – Reading Enrichment

1.0 Credit

Gr. 9, 10, 11, 12

This course is designed to support students who need improvement with word decoding and/or reading fluency. Student progress will be measured individually through periodic progress monitoring. The case manager and classroom teacher will develop a learning plan in order for the student to reach the intended goal(s). This support fulfills IEP direct instruction requirements for decoding and fluency only.

Prerequisite: Course enrollment by administrative placement only.

Career Development

001 – Career Pathways Work Experience

.5 - 1.0 Credit (semester or full year)

Gr. 11, 12

Career Pathways Work Experience provides students with an “on the job” work experience to gain valuable employment skills and gives them the opportunity to learn about their chosen Career Pathway. These work experiences can be unpaid. Students and employers will be required to complete a Training Agreement and Work Experience Training Plan. Students will be evaluated monthly by their supervisor (50% of class grade) and maintain a weekly journal of work activities (50% of class grade). Employers must be in compliance with all state and federal labor laws and regulations. Unpaid work experience students cannot displace existing employees. Students must hold a valid Work Permit if 17 or younger. Students are responsible for obtaining the work experience placements and transportation. The Work Experience Coordinator may assist with obtaining work placements as needed.

Prerequisites: Completed Work Experience Training Agreement and counselor recommendation.

001T – I.T. Work Experience

.5 - 1.0 Credit (semester or full year)

Gr. 9, 10, 11, 12

I.T. Work Experience provides students with an “on the job” work experience in the field of information technology, where students will work directly with the members of the district's tech department. Students will gain valuable employment skills and will be asked to perform the following tasks:

- Maintain computers, laptops, iPads, Chromebooks, monitors, printers, and other technology peripherals
- Assist in the installation and maintenance of district software
- Provide some on-site support for users of instructional software and hardware
- Maintain database (log) of activities for the purpose of enforcing warranties and documentation of repairs and time.

Students and the tech department supervisor will be required to complete a Training Agreement and Work Experience Training Plan. Students will be evaluated monthly by their supervisor (50% of class grade) and maintain a weekly journal of work activities (50% of class grade).

Prerequisites: Completed Work Experience Training Agreement and counselor recommendation.

Career Development

009D – Diversified Occupations Experience (CIP 32.0105)

1.0 - 3.0 Credits

Gr. 12

Diversified Occupations Experience (D.O.) is a partnership between the high school, local employers, and students. Students must obtain their own employment and transportation. Students are required to work approximately 20 hours per week and leave school early to go to work. D.O. is an opportunity for students to use skills learned in high school and learn new skills in the workplace. Students are required to keep a log of work activities and attend the D.O. class. Students will be evaluated monthly by employers and have a Training Plan developed in conjunction with their employer. All students will be required to take the NOCTI test for 21st Century Skills for Workplace Success at the conclusion of the course. Students who receive an “advanced” score on the NOCTI will receive the PA Skills Certificate.

Prerequisites: To be considered for D.O., students must complete a Student Employment Training Agreement and have passing grades in all courses, good attendance, and good discipline record (no suspensions) during the 11th grade year. Students must also take the Diversified Occupations Curriculum course (009C) in conjunction with D.O.

009C – Diversified Occupations Curriculum

1.0 Credit

Gr. 12

This course looks at various areas of employability skills. It helps students to develop the fundamental skills employers require to maintain a well-trained workforce. It addresses key employability issues and offers participants a pathway to a secure and rewarding future. The areas covered are communications, teamwork, personal development, health and safety, technology, and quality.

Prerequisite: All seniors enrolled in D.O. (009D) must concurrently enroll in Diversified Occupations Curriculum.

995 - Technical College High School (TCHS)

4.0 Credits

Gr. 10, 11, 12

The Technical College High School is operated by the Chester County Intermediate Unit and is located in West Grove, PA. TCHS offers half-day Career and Technical Education Programs in the following areas:

*Animal Science	*Computer Information Systems	Engine Technology
Auto Collision Technology	Cosmetology	HVAC/Refrigeration Technology
Auto Service Technology	*Culinary Arts	Health Career Pathways
*Carpentry	*Early Childhood Care & Education	Veterinary Science
*Criminal Justice	Engineering and Robotics	Allied Health
	Welding & Metal Fabrication	

*If a similar program is offered at both TCHS and Octorara, a discussion with the Director of Career and Technical Education at Octorara is required.

Students wanting to attend TCHS must complete an online application by March 15, 2021 for the 2021-22 school-year. Acceptance into TCHS is based upon attendance, grades, student discipline record, and availability of openings. More specifically, students must pass all major courses (Math, Science, English, Social Studies). If students earn an F in any of these major courses, they will not qualify to attend TCHS unless they retake the course by attending summer school and earning a passing grade. Students may not fail more than one course throughout the school year.

An Octorara Admissions Team will meet in February and June to review all TCHS applications to determine eligibility. TCHS will be given a final student eligibility list of Octorara students and will then notify the applicant as to whether the student will be attending TCHS.

For more information about TCHS, including college credit opportunities, or to apply online, visit: www.technicalcollegehighschool.org.

Prerequisites: Completed online application by March 15, 2021 and recommendation by Octorara Admissions Team.



Junior High Course Descriptions



PATHWAYS

Character • Careers • Critical Thinking

Course Descriptions

The following pages provide course descriptions for every course offered at Octorara Area Junior-Senior High School. The courses are listed by department. Provided within each description are the following criteria: who is allowed to take the course, an overview of what is taught in the course, and the prerequisites required to be enrolled in the course.

English Language Arts

Suggested Course Sequence

6th	7th	8th	9th
English Language Arts 6	Accelerated ELA 7	Accelerated ELA 8	Honors English 9
	English Language Arts 7	English Language Arts 8	Literature & Composition 9

7000 – Accelerated English Language Arts 7

Accelerated ELA 7 is a rigorous, accelerated course that consists of challenging reading and writing material. The goal of this course is to prepare students for success in reading, writing, speaking, and listening beyond the Pennsylvania Core Academic Standards. Reading will include literary (including poetry and drama), and informational text. Written assignments will be used to assess student understanding of texts, and emphasis will be placed on the use of textual evidence. Students will write narrative, informational, argumentative, and poetry pieces. Listening and speaking skills will be incorporated and assessed through student participation in large and small group assignments/discussions.

Prerequisites: “A” in 6th grade ELA and/or teacher recommendation.

7001 – English Language Arts 7

The goal of this course is to prepare students for success in reading, writing, speaking, and listening in accordance to the Pennsylvania Core Academic Standards. Reading will include literary (including poetry and drama), and informational text. Written assignments will be used to assess student understanding of texts, and emphasis will be placed on the use of textual evidence. Students will write narrative, informational, argumentative, and poetry pieces. Listening and speaking skills will be incorporated and assessed through student participation in large and small group assignments, discussions, and presentations.

8000 – Accelerated English Language Arts 8

Accelerated ELA 8 is a rigorous course that consists of complex reading and writing material. The goal of this course is to prepare students for success in reading, writing, speaking, and listening beyond the Pennsylvania Core Academic Standards. Reading will include literary (including poetry and drama) and informational text. Written assignments will be used to assess student understanding of texts, and emphasis will be placed on the use of textual evidence. Additional writing topics will include narrative, informational, argumentative, and poetry pieces. Listening and speaking skills will be incorporated and assessed through student participation in large and small group assignments/discussions. Students will be expected to read and write using advanced, above grade level skills. This course will prepare students for Honors English 9 in the high school.

Prerequisites: “A” in ELA 7 or Accelerated ELA 7 and/or teacher recommendation.

8001 – English Language Arts 8

The goal of this course is to prepare students for success in reading, writing, speaking, and listening in accordance to the Pennsylvania Core Academic Standards. Reading topics will include literary (including poetry and drama) and informational text. Written assignments will be used to assess student understanding of texts, and emphasis will be placed on the use of textual evidence. Additional writing topics will include narrative, informational, argumentative, and poetry pieces. Listening and speaking skills will be incorporated and assessed through student participation in large and small group assignments, discussions, and presentations.

English Language Arts

7002 – Reading Workshop 7

Reading Workshop is a full-year course designed to work in conjunction with a student's 7th grade ELA instruction. Students will review and expand knowledge of reading strategies, comprehension skills, and context vocabulary in both literary and informational text. Students will also be given the opportunity to work at their own level and pace while practicing independent reading designed to deepen focus, understanding and appreciation of self-selected texts.

7997F – Academic Literacy 7

Academic Literacy 7 is a course designed to provide both remediation and support to students who are struggling readers. The course will focus on individual areas of need such as decoding, fluency and comprehension. The course will reinforce and support the literacy demands of students' core courses. Students are placed in flexible groups based on their individual needs.

Prerequisites: Course enrollment by administrative placement only.

8997F – Academic Literacy 8

Academic Literacy 8 is a course that meets the needs of students who require support with the literacy demands of core courses. The course reinforces strategies that good readers use before, during and after reading. Students will read a wide variety of literary and informational text. They will study features that will characterize narratives when reading stories, novels and personal experience essays. Reading informational texts is also an important component of this course. Through the study of exposition, students will build background knowledge, analyze organizational structures, and increase their ability to comprehend what they have read. In addition, students will be provided time and support to meet their other academic responsibilities i.e. readings, homework, assignments, etc. Students are placed in flexible groups based on their individual needs.

Prerequisites: Course enrollment by administrative placement only.

English Language Development

9000 – ELD 7/8

This English Language Development (ELD) course covers the language forms and functions which include reading, writing, listening, speaking, concept development, vocabulary and academic language, phonics, spelling, grammar, conventions, and pronunciation. The English Language Development (ELD) course is taken concurrently with grade-level English Language Arts (ELA) courses. The course also provides English learners (EL) with language support as they transition into ELA courses and helps students address linguistic challenges in academic areas.

Prerequisites: Course enrollment by administrative placement only.

Social Studies

Suggested Course Sequence

6th	7th	8th	9th
Social Studies 6	Social Studies 7	Accelerated Social Studies 8	Honors World History
		Social Studies 8	Academic World History

7005 – Social Studies 7

This course presents a chronological survey of American History from Native American Civilizations to the Revolutionary Times. A number of themes are incorporated throughout the curriculum and include social, political and economic development, the influence of geography on culture, and the growth of science and technology. Students will become knowledgeable in the areas of geography skills and historical research.

8005A – Accelerated Social Studies 8

This course presents a chronological survey of American History from the Revolutionary Times to the Civil War. A number of themes are incorporated throughout the curriculum and include social, political and economic development, the influence of geography on culture, and the growth of science and technology. Students will be required to complete several projects which reflect research and critical thinking. Students enrolled in this course will be expected to demonstrate above grade level critical reading and writing skills and should enter the course with a strong understanding of world geography.

Prerequisites: “A” in 7th grade social studies and/or teacher recommendation.

8005 – Social Studies 8

This course presents a chronological survey of American History from the Revolutionary Times to the Civil War. A number of themes are incorporated throughout the curriculum and include social, political and economic development, the influence of geography on culture, and the growth of science and technology. Students will be required to complete several projects which reflect research and critical thinking.

Science

Suggested Course Sequence

6th	7th	8th	9th
Science 6	Science 7	Accelerated Science 8	Honors Biology
		Science 8	Life Science AND Physical Science

7004 – Science 7

The 7th grade science course revolves around the study of Earth and the Universe. We begin our school year with an examination of astronomy. This will be followed by the exploration of two units in geology and oceanography. Earth and space science concepts are infused with current teachings and events, STEM (Science, Technology, Engineering, Mathematics) activities and labs, as well as problem-based learning.

8004A – Accelerated Science 8

The 8th grade accelerated general science course is laboratory based. Students are expected to complete independent projects that provide them with the opportunity to evaluate the moral, ethical, social, economic, and environmental implications of using science and technology. Concepts explored deal with various chemistry, ecology, and physics topics. These general science concepts will be infused with current teachings and events, STEM (Science, Technology, Engineering, Mathematics) activities and labs, as well as problem-based learning. The major focus of the course is to have the students “do” the science. Our science teaching philosophy stresses the inquiry-based approach to learning.

Prerequisites: “A” in 7th grade science and/or teacher recommendation and successful completion of a science based writing prompt at the end of seventh grade.

Science

8004 – Science 8

The 8th grade general science course is laboratory based. Concepts that we will explore deal with various chemistry, ecology, and physics topics. These general science concepts will be infused with current teachings and events, STEM (Science Technology Engineering Mathematics) activities and labs, as well as problem-based learning. Our science teaching philosophy stresses the inquiry-based approach to learning.

Mathematics

Suggested Course Sequence

6th	7th	8th	9th
Math 6	Accelerated Math 7	Algebra I	Honors Algebra II or Algebra II
	Math 7	Math 8	Algebra I or Algebra I - Part 1

7024A – Accelerated Math 7

7th Grade Accelerated Math is an advanced course that is aligned to the 7th Grade PA Core Standards as well as Pre-Algebra concepts. This course is meant to prepare students to take the Algebra I high school course in 8th grade and the Algebra I Keystone Exam at the end of the 8th grade year.

Prerequisites: “A” in 6th grade math, a minimum score of 40 on the placement exam, and/or teacher recommendation.

7024 – Math 7

The Math 7 course is designed to address the 7th grade PA Core Standards and will focus on 7th grade concepts including ratios and proportional relationships, expressions and equations, geometry and statistics and probability, while strengthening basic arithmetic skills. Students will also preview and practice basic Pre-Algebra skills as they prepare for Math 8.

8024A – Algebra I

The 8th grade Algebra I course is designed for advanced math students who have successfully completed Accelerated Math 7. Algebra is the study of the properties of real numbers. Emphasis is placed on manipulating algebraic terms, solving linear equations with one and two variables, and graphing functions and equations. Upon completion of this course, students are required to take the Algebra I Keystone Exam. Successful completion of this course will fulfill the high school Algebra I requirement and allow students to take Algebra II or Honors Algebra II in 9th grade.

Prerequisites: “A” in Accelerated Math 7, a minimum score of 40 on the placement exam, and/or teacher recommendation.

8024 – Math 8

The 8th grade Math course is designed to address the 8th grade PA Core Standards and will focus on 8th grade concepts including rational and irrational numbers, linear equations, functions, geometry and statistics and probability. Along with addressing pre-algebra concepts, the course will strengthen basic arithmetic skills necessary for success in the 9th grade Algebra I course.

World Languages

7100 – Introduction to Spanish 7 (1/2 year course)

Introduction to Spanish is a half-year, beginning-level course to prepare students for taking Spanish I in 8th grade. Students will begin to discover Spanish language and culture through authentic material and classroom discussion. The main emphasis is on memorizing and using vocabulary as students begin to communicate through verbal and written assignments. Students will gain knowledge and understanding of Spanish culture through the study of topics such as the alphabet, greetings, farewells, introductions, numbers, days, months, dates, the weather, likes/dislikes, and describing appearances and personalities. Basic grammar is introduced, including subject pronouns, verbs, nouns, and adjectives. Students are assessed through written and verbal tests, as well as projects, short essays, and classroom participation.

8600 – Spanish I

Spanish I is a full-year course for 8th graders and a prerequisite for Spanish II. After a brief review of the 7th grade Introduction to Spanish material, students will study new concepts such as telling time, school life, expressing feelings, family, home life, shopping, sports and cultural events. Basic Spanish grammar, conjugating verbs, reading, writing, listening, speaking, culture and cultural sustainability are further developed to prepare students for the next level. Students are assessed through written and verbal tests, as well as projects, short essays, and classroom participation. This course is more accelerated than senior high Spanish I.

7102 – Introduction to French 7 (1/2 year course)

In this half-year course, students begin to discover French language and culture through authentic material and classroom discussion. The main emphasis is on vocabulary as students begin to communicate through verbal and written assignments in the present tense. The class will introduce students to common verb forms, including both regular and irregular verbs. Students will gain knowledge and understanding of French culture through the study of topics such as: greetings, school subjects, family life, and sports. Students are expected to engage in conversations, provide and obtain information, and exchange opinions with their peers. Students are assessed through written and verbal tests, as well as projects, short essays, and classroom participation.

8700 – French I

In this full-year course, students discover French language and culture through authentic material and classroom discussion. Students will use simple sentences and basic everyday vocabulary, including classroom objects, French cuisine, professions and basic conversational expressions. The class will introduce students to common verb forms, including both regular and irregular verbs. Students are expected to engage in conversations, provide and obtain information, and exchange opinions with their peers. Students are assessed through written and verbal tests, as well as projects, short essays, and classroom participation. This course is recommended for students in eighth grade and is a prerequisite for French II.

Music

7015 – General Music 7 (1/2 year course)

Students will discuss families of instruments, learn how to play recorders, and refresh their music literacy skills through small compositions.

8015 – General Music 8 (1/2 year course)

Students will discuss music genres, film music, and enhance their music literacy skills through a basic introduction to solfege.

7020M – Chorus 7

8020M – Chorus 8

Chorus provides the student singer an opportunity to rehearse and perform appropriate choral music for two major concerts, with additional community appearances. The choral literature includes various styles and arrangements of two-part to four-part pieces, for voices in categories of soprano, alto, tenor, and bass. All students sing in the voice part which is chosen for them based upon their audition. Treble voices will rotate between soprano and alto. Students will learn basic music literacy skills and aural skills using solfege. Student grades are based upon their completed assignments and on their singing participation in concerts and daily classes. Additional small ensemble opportunities are available after school on a volunteer basis. Participation in an after-school group, while offering additional training and performance opportunities, does not affect a chorus student's grade.

Prerequisite: Teacher recommendation.

Music

8111 – Band 7

Band 8

This course is a performance class in which students will rehearse and perform a variety of music from the genres of symphonic and marching band literature of a grade 1.5-3 literacy difficulty (out of 6). In addition, the class will cover performance of major and minor scales, arpeggios, percussion rudiments, music terminology, and ensemble skills. Students are expected to participate in all scheduled concerts, sectionals, and special activities. Grading will be based on individual musical preparation, proper execution of scales, rudiments, and arpeggios, understanding of musical terminology, and participation.

Prerequisites: Students who participated in 6th Grade Band at the Intermediate School may register for Band 7 with a recommendation from the 6th Grade Band Director. Students must either own, rent, or have access to a concert band instrument.

8110 – Band / Chorus 7

Band / Chorus 8

Students taking Band/Chorus will follow a rotational schedule, attending each ensemble on alternating days, unless otherwise specified by the course instructors. For specifics regarding the course content, please refer to the descriptions listed under Band and Chorus.

Prerequisites: See prerequisites for Band 7&8 and Chorus 7&8.

Art

7014 – Art 7 (1/2 year course)

Students will focus on developing skills which include drawing, painting, and collage. They will have the opportunity to experiment and refine skills using a variety of art media. Elements and principles of art will be emphasized in each project. Art history, cultural relevance, and artists will also be included within most lessons. Students will be made aware of how the Arts relate to the world and everyday life and go beyond the classroom. The goal is to have students acquire and learn new skills while also enhancing and utilizing their creative thinking skills to maximize their potential in all aspects of life and other subjects. Art 7 is a semester-long course.

8014 – Art 8 (1/2 year course)

Two-dimensional (drawing, painting, printmaking) and three-dimensional projects are included in this course. Art 8 allows for more choice-based learning incorporating the elements and principles of art within each lesson. Art history, cultural relevance, and artists will be explored, giving students an opportunity to learn from master artists. Students will be made aware of how the Arts relate to the world and everyday life and go beyond the classroom. The goal is to have students acquire and learn new skills while also enhancing and utilizing their creative thinking skills to maximize their potential in all aspects of life and other subjects. Art 8 is a semester-long course intended to prepare students for art courses available in the high school.

Technology Education

7013 – Technology Education 7 (1/2 year course)

This is a one semester course that focuses on developing skills and knowledge in woodworking. Basic tools and machines will be used to cut, shape, smooth, fasten and finish projects. Students will need to be able to measure and use basic math to plan for a project. Emphasis will be placed on safety and developing confidence in designing, building and finishing.

8013 – Technology Education 8 (1/2 year course)

This one semester course introduces a wide range of technologies through various topics. Simple machines, power mechanics, transportation and energy are the primary focus areas. While some of the learning takes place through discussion and research, hands on activities and problem solving are the main vehicle used to process and learn. These experiences will help direct students in choosing areas of interest for elected technology courses at the high school.

Technology Education

8024 – Computer Science Discoveries (1/2 year course)

Computer Science Discoveries is an introductory computer science course for students in 8th grade. Mapped to CSTA standards, the course uses the Code.org curriculum to take a wide lens on computer science by covering topics such as problem solving, programming, physical computing, user centered design, and data, while inspiring students as they build their own webpages, animations, and games, with a focus on HTML coding.

8021 – I.D.E.A. (1/2 year course)

Eighth grade students will explore engineering principles and develop critical thinking and problem solving skills. Students can expect to learn 3D computer programs to draw components. These components can then be printed on a 3D printer to solve the engineering problems. Students will also learn about architecture and the design of buildings. Students will use computer programs that will assist in drawing 3D house floor plans and 3D landscapes.

Health and Physical Education

7012(M/F) – Physical Education 7 (1/2 year course)

Physical education is taught to 7th grade students in co-educational classes with the emphasis on team sports. Units taught include: football, physical fitness, softball, volleyball, basketball, soccer, tennis, lacrosse, team handball, and recreational games. The goal of this course is for students to apply physical education to their lives. Students will be expected to demonstrate knowledge and skills that enable participation in group and team activities. Students' physical levels will be assessed. Students will participate in activities that improve fitness, wellness, and cardiovascular capacity.

8012(M/F) – Health and Physical Education 8 (1/2 year course)

Physical education is taught to 8th grade students in co-educational classes with the emphasis on team sports. Units taught include: football, physical fitness, softball, volleyball, basketball, soccer, tennis, lacrosse, team handball, and recreational games. The goal of this course is for students to apply physical education to their lives. Students will be expected to demonstrate knowledge and skills that enable participation in group and team activities. Students' physical levels will be assessed. Students will participate in activities that improve fitness, wellness, and cardiovascular capacity.

Health is taught to 8th grade students in co-educational classes. Units taught include: alcohol, community health, disease control, drugs and narcotics, human sexuality, mental health, and smoking.

Special Education

7201 – Open Enrichment/Study Skills 7

8201 – Open Enrichment/Study Skills 8

Open Enrichment/Study Skills provides a small-group setting where students get individual academic support from their IEP case manager (or other special education teacher), complete necessary progress monitoring on their IEP goals, and review study and organizational skills. Students will work on homework/long term assignments and track grades in PowerSchool. Students will also have lessons in executive functioning skills, transition planning, advocating for oneself, and basic employability/ classroom skills.

Prerequisite: Course enrollment by administrative placement only.

Special Education

7002RW – Intensive Reading & Writing 7

8002RW – Intensive Reading & Writing 8

These courses provide students with an intensive approach to reading and writing. Students read and respond to various genres in literature and informative text. They learn strategies that assist them to understand a variety of texts, applying the strategies throughout all academic classes. Students work in small groups at their current performance level to improve decoding, reading fluency, comprehension, and written expression skills.

Prerequisite: Course enrollment by administrative placement only.

7001L – Linguistics A 7

8001L – Linguistics B 8

Linguistics courses provide students an intensive approach to reading through age-appropriate phonics instruction. Students review and re-learn phonics skills for decoding and encoding words.

Prerequisite: Course enrollment by administrative placement only.

7024E – Math Enrichment 7

8025E – Math Enrichment 8

Math enrichment courses promote the success of students in their general education math classes. In small group settings, students receive direct instruction and supervised practice in topics and skills that directly parallel their present general education math curricula. Specially designed instruction addresses specific areas of a student's weakness or skills deficits through one-on-one instruction and individually programmed remedial activities.

Prerequisite: Course enrollment by administrative placement only.

7300 – Open Enrichment/Social Skills 7

8300 – Open Enrichment/Social Skills 8

Open Enrichment/Social Skills provides a small-group setting where students get individual academic support from their IEP case manager (or other special education teacher), complete necessary progress monitoring on their IEP goals, self-advocacy and review social and behavioral regulation skills. Students will work on homework/long term assignments and track grades in PowerSchool.

Prerequisite: Course enrollment by administrative placement only.

7400 – Open Enrichment/Emotional Support 7

8400 – Open Enrichment/Emotional Support 8

Open Enrichment/Emotional Support provides a small-group setting where students get individual behavioral / emotional support in the areas of emotional regulation, conflict resolution, emotional intelligence, positive behavioral management, and self-awareness. Students are also introduced to mindfulness meditation - a mental training practice that involves focusing your mind on your experiences (emotions, thoughts, and sensations) in the present moment. Mindfulness meditation can involve breathing practice, mental imagery, awareness of body and mind, and muscle and body relaxation.

Prerequisite: Course enrollment by administrative placement only.

Gifted Education

The Gifted Education program consists of state- and federally-mandated adherence to Gifted Individualized Education Plan (GIEP) goals and objectives, which are established yearly with the gifted support teacher, student, parent(s), and classroom teacher(s). The GIEP will challenge students in their area(s) of giftedness by establishing enriched curriculum (e.g., independently planned projects or independent curriculum) and/or course acceleration, according to student needs.

7002S – Seminar 7

The Seminar offers gifted students the opportunity to extend the general curriculum in all academic areas using a combination of hands-on activities, research and inquiry based tasks, and project based learning. This course satisfies the requirement for Reading Workshop for gifted students in 7th grade.

Prerequisite: Course enrollment by administrative placement only.

8800G – Technology and Your Future II/Seminar 8

The Seminar satisfies the Futures requirement for gifted students in 8th grade while also providing opportunities to extend the general curriculum in their identified area of giftedness through independent choice projects and tasks, both in individual and group settings.

Prerequisite: Course enrollment by administrative placement only.

Career Education

7008 – Technology and Your Future I (1/2 year course)

This course will provide 7th grade students with the skills and knowledge needed to succeed in the digital world. Students will explore concepts such as responsible digital citizenship, digital literacy skills, and career possibilities in STEM. While exploring these topics, students will be honing skills in word processing, digital presentations, and computer skills. Students will also spend time exploring emerging technology such as 3D printing, coding, and robotics

8801 – Technology and Your Future II (1/2 year course)

This course will provide 8th grade students with the opportunity to explore post-secondary education and career opportunities. Tools such as interest inventories will help students decide where their skills, strengths, and abilities lie. Students will explore careers of their interest and discover the skills needed for those careers. While exploring careers, students will also be practicing their word processing, digital presentation making, and digital literacy skills.

School Personnel Contact Information

Junior-Senior High School Administration:	(610) 593-8254
Dr. Jonathan Propper (Principal)	Ext. 6510
Melissa Andrews (Grades 10-11 Assistant Principal)	Ext. 6503
Lisa McNamara (Grade 9 Assistant Principal; Director of Career and Tech Ed)	Ext. 3549
Mark Peticca (Grades 7-8 Assistant Principal; Director of OVA)	Ext. 5510

Junior-Senior High School Counseling Office:	(610) 593-8254
Karen Letts (Grades 10-12 Counselor: A-L)	Ext. 6536
Jennifer German (Grades 10-12 Counselor: M-Z)	Ext. 6535
John Atlee (Grades 7-9 Counselor: A-L)	Ext. 6533
Kate Dill (Grades 7-9 Counselor: M-Z)	Ext. 6534
Joanne Moore (Secretary)	Ext. 6530
Sarah Kluge (Grades 10-12 Intervention Specialist)	Ext. 6126
Mark Durante (Grades 7-9 Intervention Specialist)	Ext. 3306

Junior-Senior High School Personnel:	(610) 593-8254
Sarah Morrissey (School Nurse)	Ext. 6504
Valarie Popov (Attendance Secretary)	Ext. 5545
Greg Fantazzi (Athletic Director)	Ext. 6128

District Office Personnel:	(610) 593-8238
Cheryl Todd (Registrar)	Ext. 3501
Amanda Fraterman (Supervisor of Special Education)	Ext. 5517
Cale Hilbolt (Student Services Director)	Ext. 3519
Dr. Elena Tachau (Director of Curriculum and Instruction)	Ext. 5530

Home of the BRAVES!

Bold

Confident in oneself

Responsible

Accountable for choices, actions, and attitude

Ambitious

Motivated to set goals and achieve them

Virtuous

Honorable in words and actions

Energetic

Committed to school and community

Selfless

Concerned about the rights and feelings of others

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