

PROGRAM OF STUDIES

2024-2025



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Character, Careers, Critical Thinking

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.

Front and back covers designed by OACTEP - Graphic Design & Illustration student,
Kadence Connors (Class of 2024)

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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 2024-2025 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	Spanish II or III	Spanish III or Honors Spanish IV Dual Credit Spanish IV	Honors Spanish IV or V Dual Credit Spanish IV
French I or II Public Speaking	French II or III Public Speaking	French III or Honors French IV Public Speaking	Honors French IV or V Public Speaking
	AP Psychology	Psychology AP Psychology	Psychology AP Psychology Calculus
Intro to Business	Employability Skills The Digital Economy Marketing Essentials	Employability Skills The Digital Economy Marketing Essentials Entrepreneurship Personal Finance Accounting Economics	Employability Skills The Digital Economy Marketing Essentials Entrepreneurship Accounting Economics
	Personal Finance Accounting	Business & Personal Law	Business & Personal Law
		Dual Credit Honors Foundations of Business	Dual Credit Honors Foundations of Business
		Dual Credit Honors Financial Accounting	Dual Credit Honors Financial Accounting
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
Visual Design & Communication I	Visual Design & Communication I	Visual Design & Communication I	Visual Design & Communication I
Visual Design & Communication II/III	Visual Design & Communication II/III	Visual Design & Communication II/III	Visual Design & Communication II/III
Introduction to Graphic Design & Illustration I	Introduction to Graphic Design & Illustration I	Introduction to Graphic Design & Illustration I	Introduction to Graphic Design & Illustration I
Introduction to Graphic Design & Illustration II	Introduction to Graphic Design & Illustration II	Introduction to Graphic Design & Illustration II	Introduction to Graphic Design & Illustration II
	Design Major I, II, III	Design Major I, II, III	Design Major I, II, III
Broadcast Communications	Broadcast Communications	Broadcast Communications	Broadcast Communications
	FFA Leadership/Supervised Ag Exp	FFA Leadership/Supervised Ag Exp	FFA Leadership/Supervised Ag Exp
I.T. Work Experience	I.T. Work Experience	I.T. Work Experience	I.T. Work Experience
	TCHS	TCHS	TCHS
		Career Pathways Work Experience	Career Pathways Work Experience
		Diversified Occupations Experience (D.O.)	Diversified Occupations Experience (D.O.)
	OACTEP - Business Marketing & Entrepreneurship	OACTEP - Business Marketing & Entrepreneurship	OACTEP - Business Marketing & Entrepreneurship
	OACTEP - Computer Technology	OACTEP - Computer Technology	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	Spanish II or III	Spanish III or Honors Spanish IV Dual Credit Spanish IV	Honors Spanish IV or V Dual Credit Spanish IV
French I or II Public Speaking	French II or III Public Speaking	French III or Honors French IV Public Speaking	Honors French IV or V Public Speaking Creative Writing
Intro to Business	Personal Finance Employability Skills Marketing Essentials	Personal Finance Employability Skills Marketing Essentials Entrepreneurship Psychology AP Psychology	Employability Skills Marketing Essentials Entrepreneurship Psychology AP Psychology Intro to Philosophy
Chorus Band	Chorus Band	Chorus Band	Chorus Band
Solo & Chamber Performance	Solo & Chamber Performance	Solo & Chamber Performance	Solo & Chamber Performance
Guitar I Guitar II Piano Lab	Guitar I Guitar II Piano Lab	Guitar I Guitar II Piano Lab	Guitar I Guitar II Piano Lab
Music Appreciation	Music Appreciation Intro to Music Theory	Music Appreciation Intro to Music Theory	Music Appreciation Intro to Music Theory
Broadcast Communications Theatre	Broadcast Communications Theatre	Broadcast Communications Theatre	Broadcast Communications Theatre
Intro to Art Art Major I	Intro to Art Art Major I Art Major II Pop Art	Intro to Art Art Major I Art Major II Pop Art	Intro to Art Art Major I Art Major II Pop Art
Introduction to Graphic Design & Illustration I Introduction to Graphic Design & Illustration II	Introduction to Graphic Design & Illustration I Illustration/Graphic Design II & Illustration II Design Major I, II, III	AP Studio Art (2-D, 3-D, Drawing) Introduction to Graphic Design & Illustration I Illustration/Graphic Design II & Illustration II Design Major I, II, III	AP Studio Art (2-D, 3-D, Drawing) Introduction to Graphic Design & Illustration I Illustration/Graphic Design II & Illustration II Design Major I, II, III
Ceramics I Ceramics II	Ceramics I Ceramics II Ceramics III	Ceramics I Ceramics II Ceramics III	Ceramics I Ceramics II Ceramics III
Visual Design & Communication I Visual Design & Communication II/III	Visual Design & Communication I Visual Design & Communication II/III TCHS	Ceramics - Wheel Throwing Studio Studio Art/Fine Arts Studio Art/Graphic Design Visual Design & Communication I Visual Design & Communication II/III TCHS	Ceramics - Wheel Throwing Studio Studio Art/Fine Arts Studio Art/Graphic Design Visual Design & Communication I Visual Design & Communication II/III TCHS
	OACTEP - Graphic Design & Illustration	Career Pathways Work Experience Diversified Occupations Experience (D.O.) OACTEP - Graphic Design & Illustration	Career Pathways Work Experience Diversified Occupations Experience (D.O.) 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

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

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	Dual Credit Spanish IV	Dual Credit Spanish IV
Public Speaking	Public Speaking	French III or Honors French IV	Honors French IV or V
Broadcast Communications	Broadcast Communications	Public Speaking	Public Speaking
		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 Philosophy
	Employability Skills	Employability Skills	Employability Skills
		Entrepreneurship	Entrepreneurship
	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
	Advanced Foods	Advanced Foods	Advanced Foods
Food & Nutrition	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
		Diversified Occupations Experience (D.O.)	Diversified Occupations Experience (D.O.)
	OACTEP - Culinary and Baking/Pastry Arts	OACTEP - Culinary and Baking/Pastry Arts	OACTEP - Culinary and Baking/Pastry Arts
	OACTEP - Child Care Education	OACTEP - Child Care Education	OACTEP - Child Care Education
	OACTEP - Homeland Security & Protective Services	OACTEP - Homeland Security & Protective Services	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 Dual Credit Spanish IV	Honors Spanish IV or V Dual Credit Spanish IV
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
		Principles of Plant Science	Principles of Plant Science
		Principles of Animal Science	Principles of 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	Employability Skills	Employability Skills Entrepreneurship	Employability Skills Entrepreneurship
		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.)	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 - Carpentry & Cabinetmaking	OACTEP - Carpentry & Cabinetmaking	OACTEP - Carpentry & Cabinetmaking
	OACTEP - Engineering	OACTEP - Engineering	OACTEP - Engineering
	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

Spanish III or Honors Spanish IV
Dual Credit Spanish IV
French III or Honors French IV
Public Speaking
Psychology
AP Psychology
Strength and Conditioning
Yoga
Chemistry
Earth & Space Science
Physics
Principles of Plant Science
Principles of Animal Science
Environmental Science
Climate Science
Human Anatomy
Dual Credit Human Anatomy & Physiology
Introduction to Forensic Science

Honors Spanish IV or V
Dual Credit Spanish IV
Honors French IV or V
Public Speaking
Psychology
AP Psychology
Strength and Conditioning
Yoga
Chemistry
Earth & Space Science
Physics
Principles of Plant Science
Principles of Animal Science
Environmental Science
Climate Science
Human Anatomy
Dual Credit Human Anatomy & Physiology
Introduction to Forensic Science

FACS
Learning to Cook

Food & Nutrition
Early Childhood Development
Intro to Business

FACS
Learning to Cook
Advanced Foods
Food & Nutrition
Early Childhood Development

FACS
Learning to Cook
Advanced Foods
Food & Nutrition
Early Childhood Development

FACS
Learning to Cook
Advanced Foods
Food & Nutrition
Early Childhood Development

Business & Personal Law
Dual Credit Honors Foundations of Business
Personal Finance
TCHS
Career Pathways Work Experience
Diversified Occupations Experience (D.O.)
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

Personal Finance
TCHS

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 2025

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	7 credits
Keystone Exams ***	
TOTAL	23 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 an additional .5 elective credit. (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 pages 21-23).

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.....	5.0 credits
Promotion from grade 10 to 11.....	11.0 credits
Promotion from grade 11 to 12.....	17.0 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, 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 Calculus
- Advanced Placement Statistics
- Advanced Placement Studio Art (2-D, 3-D, Drawing)
- Advanced Placement Chemistry
- Advanced Placement Biology
- Advanced Placement Physics 1: Algebra Based
- Advanced Placement Physics 2: Algebra Based
- Advanced Placement Physics C


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 are responsible for the application process and may have to share the cost of the college credits. 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), offers college courses at Octorara during the school year. An agreement with Immaculata University to offer the courses listed below is currently in process. The courses are anticipated to be available in the 2024-2025 SY.

Octorara Course

DCCC/St. Joe's/Immaculata 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)
Dual Credit English Composition 11 (037DC)	Immaculata University (Agreement in process)
Dual Credit Human Anatomy & Physiology (251DC)	Immaculata University (Agreement in process)
Dual Credit Spanish IV (546DC)	Immaculata University (Agreement in process)

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 courses are not weighted when calculating a student's GPA. If the course is offered at Octorara, then students must take the course on campus.** 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. 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)

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 2 or 3 elective credits. Each program meets 2-3 periods per day. 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 a career and technical education course of study, students have the opportunity to earn industry credentials and college credits. The specific industry credentials affiliated with each OACTEP course are listed within the specific course descriptions.

OACTEP - Carpentry & Cabinetmaking (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 - Business Marketing & Entrepreneurship (CIP 52.0701)

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

OACTEP - Child Care Education (CIP 19.0708)

OACTEP - Graphic Design & Illustration (CIP 50.0402)

OACTEP - Engineering (CIP 15.1301)

OACTEP - Computer Technology (CIP 15.1202)

OACTEP - Diversified Occupations (CIP 32.0105)

Octorara Virtual Academy

The Octorara Virtual Academy (OVA) is an asynchronous program designed to give students and families a learning option to meet individual student needs. The OVA provides online learning opportunities for:

- Credit Recovery (taken during summer school)
- Students to take additional courses that are not offered at OASD. (Up to two additional OVA courses per year)
- Students to take additional courses that do not fit into a student's schedule
- 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, band, and other extracurricular activities
- 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 cschultz@octorara.org or call 610-593-8238, ext. 30521.

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 nondoc-trinal religion/philosophy)	4 years of additional courses	(From any area above, foreign language or nondoc-trinal 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 Scott Domowicz, Title IX Coordinator or the Section 504 Coordinator, Cale Hilbolt at 228 Highland Road, Suite 1, Atglen, PA 19310 or 610-593-8238.

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. To register for a credit recovery course, please visit

<https://www.octorara.k12.pa.us/domain/68>.

Registration must be completed by July 5, 2024. All credit recovery courses must be completed by August 9, 2024.

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

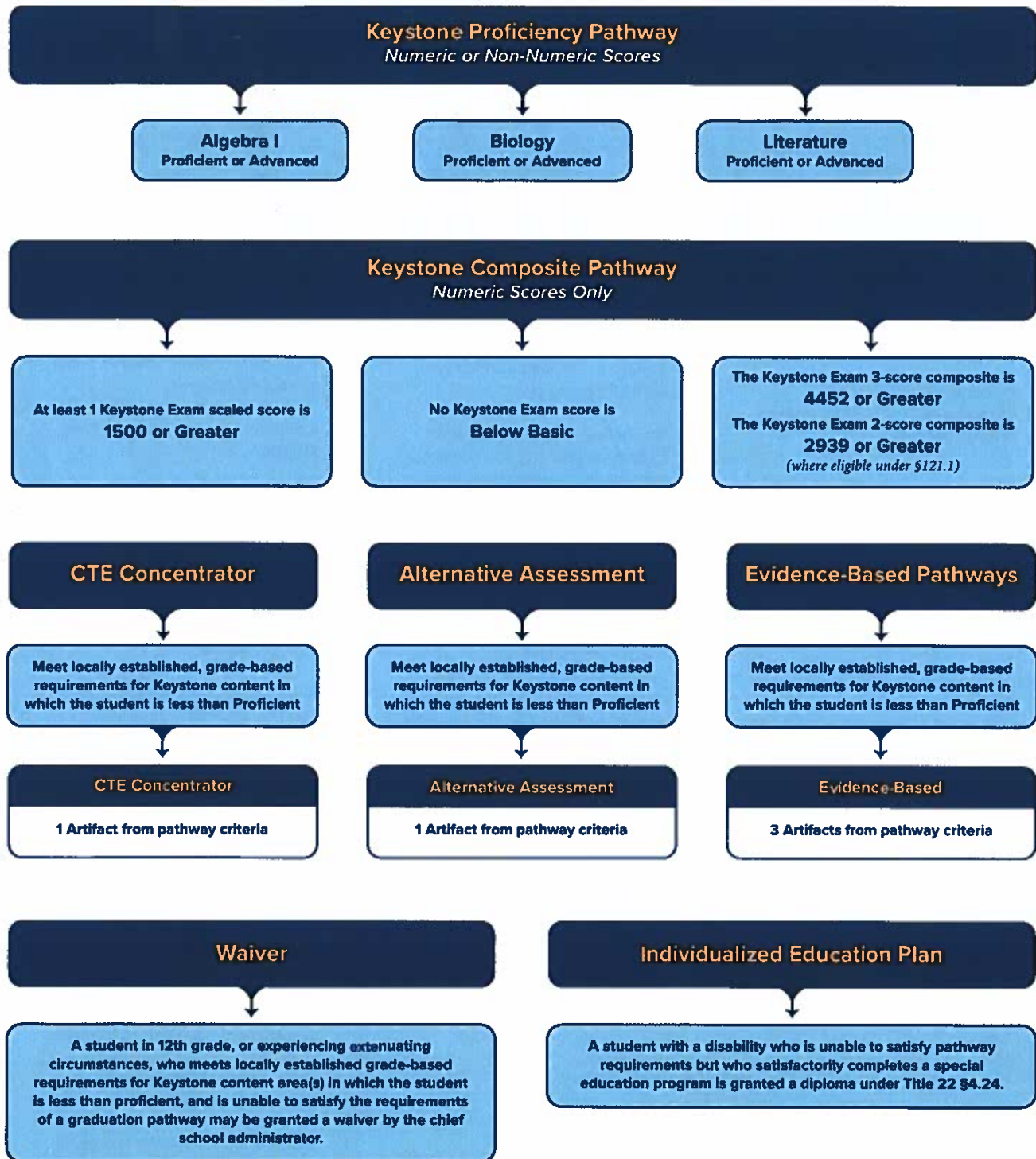
ACT 158 provides alternatives to Pennsylvania's statewide requirement of attaining proficiency on the three end-of-course Keystone Exams (Algebra I, Literature, and Biology) in order for a student to achieve statewide graduation requirements. Effective with the graduating class of 2023, students have 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 pages 22-23.

Pathways To Graduation

(Beginning with the Class of 2023)



Pennsylvania Pathways to Graduation



NOTE: Although this infographic displays a sequential progression, students may fulfill criteria under the CTE Concentrator, Alternative Assessment, or Evidence-Based Pathways prior to demonstrating proficiency in Keystone academic content through Keystone Exam scores or locally established grade-based requirements.

Pathway Criteria

CTE Concentrator	Alternative Assessment	Evidence-Based
1 Artifact	1 Artifact	3 Artifacts consistent w/student goals ONE or more from Section One No more than TWO from Section Two
<p>Industry-based competency certification</p> <p>Likelihood of industry-based competency assessment success</p> <p>Readiness for continued engagement in CTE Concentrator program of study</p>	<p>Attainment of one alternative assessment score or better: ACT (21), ASVAB AFQT (31), PSAT/NMSQT (970), or SAT (1010)</p> <p>Attainment of Gold Level or better on ACT WorkKeys</p> <p>Attainment of 3 or better on AP Exam(s) related to each Keystone content area in which less than Proficient</p> <p>Attainment of 4 or better on IB Exam(s) related to each Keystone content area in which less than Proficient</p> <p>Successful completion of concurrent enrollment course(s) related to each Keystone content area in which less than Proficient</p> <p>Successful completion of a pre-apprenticeship program</p> <p>Acceptance into accredited, non-profit Institution of Higher Education (IHE) 4yr program for college-level coursework</p>	<p>Section 1</p> <p>Attainment of 630 or better on any SAT Subject Test</p> <p>Attainment of Silver Level or better on ACT WorkKeys</p> <p>Attainment of 3 or better on any AP Exam</p> <p>Attainment of 3 or better on any IB Exam</p> <p>Successful completion of any concurrent enrollment or postsecondary course</p> <p>Industry-recognized credentialization</p> <p>Acceptance into accredited, non-profit Institution of Higher Education (IHE) for college-level coursework in an other-than-4yr program</p> <p>Section 2</p> <p>Attainment of Proficient or Advanced on any Keystone Exam</p> <p>Successful completion of a service-learning project</p> <p>Letter guaranteeing full-time employment or military enlistment</p> <p>Completion of an internship, externship, or cooperative education program</p> <p>Compliance with NCAA Division II academic requirements</p>

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	9th	10th	11th	12th
English (4 credits required)	Honors English 9 Literature & Composition 9	Honors English 10 Literature & Composition 10	Honors English 11 Dual Credit English Composition 11 Literature & Composition 11	AP English Literature & Composition The Novel Creative Writing The Short Story Composition 12 Critical Literacy Technical Writing
Social Studies (3 credits required)	Honors World History Academic World History	AP Psychology Academic U.S. History	AP U.S. History European History: Renaissance to Present American Government Psychology Economics	European History: Renaissance to Present Dual Credit U.S. Gov't and Politics Academic U.S. Gov't and Politics Psychology American Government Economics
Science (3 or 4 credits required)	Honors Biology Physical Science AND Life Science	Biology Honors Chemistry Chemistry Honors Earth & Space Science Earth & Space Science Physics Principles of Animal Science Principles of Plant Science Environmental Science Climate Science	AP Physics 1 Dual Credit Physics 1 Physics AP Biology AP Chemistry Chemistry Honors Earth & Space Science Earth & Space Science Climate Science Principles of Plant Science Principles of Animal Science Introduction to Forensic Science Environmental Science Human Anatomy Dual Credit Human Anatomy	AP Physics C Dual Credit Physics C Dual Credit Physics 1 AP Physics 2 Dual Credit Physics 2 Physics Human Anatomy AP Chemistry Climate Science Honors Earth & Space Science Earth & Space Science Principles of Plant Science Principles of Animal Science Introduction to Forensic Science Environmental Science Dual Credit Human Anatomy
Mathematics (4 or 3 credits required)	Honors Algebra II Algebra II Algebra I Algebra I - Part 1	Honors Geometry Geometry Algebra II Fund of Algebra II Algebra I - Part 2	Honors Pre-Calculus Pre-Calculus Algebra III Statistics AP Statistics Geometry Fund of Geometry Fund of Algebra II	AP Calculus Pre-Calculus Statistics Algebra III AP Statistics Topics in Mathematics Fund of Algebra II
World Languages (Recommended for four-year college)	Spanish or French -OR- Pathway Elective	Spanish or French -OR- Pathway Elective	Spanish or French -OR- Pathway Elective	Spanish or French -OR- Pathway Elective
Physical Ed./Health (1/.5 credits required)	Physical Education 9 -AND- Health	PE Elective -OR- Elective	PE Elective -OR- Elective	PE Elective -OR- Elective
Electives (7.5 credits required)	Pathway Elective Elective	Pathway Elective Personal Finance or Elective	Pathway Elective Elective or Personal Finance	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	Dual Credit English Composition 11 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 Shakespearean plays (*Romeo and Juliet* and *The Tempest*), *A Separate Peace*, *Fahrenheit 451*, 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*, *Just Mercy*, 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.

037DC - Dual Credit English Composition 11 (Anticipated for 2024-25 school year)

1.0 Credit / 3 College Credits

Gr. 11

This course is an introduction to academic writing with an emphasis on using language clearly and correctly. This course develops and reinforces skills needed for proficient academic writing and literary analysis. While the focus of this course is on academic writing, students will also be required to read American Literature and engage in literary analysis while learning and demonstrating proficient academic writing. This course is intended for students who wish to earn college credit while in high school. An agreement with Immaculata University to offer this course is currently in process. See page 18 for further details.

Prerequisite: “B” or higher in 10th grade English and Proficient/Advanced on the Literature Keystone Exam.

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.

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.**

English

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.**

077 – Composition 12

.5 Credit

Gr. 12

Composition 12 is a project-based writing course. Students will explore the full-range of the writing process, and learn how to generate ideas, write proposals and goals, manage time, give and receive feedback, and prepare their work for publication. In addition, students will receive direct instruction designed to improve key writing skills. Completing this course will help students manage long-term writing projects that they will encounter in post-secondary education. **This course fulfills the writing requirement of the senior-year English credit.**

087 – Critical Literacy

.5 Credit

Gr. 12

Students taking this course will develop a semester-long project of their choosing. The course will focus on the critical thinking and literacy skills necessary to identify, state, research, solve, and share real-world solutions to real-world problems. Students will be accessing both print materials as well as digital. 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. 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, 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		Dual Credit U.S. Gov't and Politics
Academic World History	Academic U.S. History	European History: Renaissance to Present		Academic U.S. Gov't and Politics Dual Credit U.S. Gov't and Politics
		American Government	Psychology or Economics	European History: Renaissance to Present

*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. AP U.S. History is a rigorous, fast paced and arduous course designed to be the equivalent of a full-year college U.S. History course. Students must be willing to devote substantial time to study and complete assignments outside of the classroom. Emphasis is placed on class discussion, the use of primary and secondary sources, critical reading, and analytical thinking and writing. Success on the exam is largely determined by student completion of reading and other assignments outside of class and the development of analytical skills. Students should learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance and to weigh the evidence and interpretations presented in historical scholarship.

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.

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 – European History: Renaissance to Present

1.0 Credit

Gr. 11, 12

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.

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.

Social Studies

170 – Introduction to Philosophy - Elective

1.0 Credit

Gr. 11, 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 Honors Earth & Space Science	AP Biology AP Physics 1: Algebra Based Dual Credit Physics 1 AP Chemistry Honors Earth & Space Science Dual Credit Human Anatomy & Physiology	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 Dual Credit Human Anatomy & Physiology
Physical Science AND Life Science	Biology	Earth & Space Science Chemistry Physics Human Anatomy Introduction to Forensic Science Principles of Plant Science Principles of Animal Science Environmental Science Climate Science	Earth & Space Science Chemistry Physics Human Anatomy Introduction to Forensic Science Principles of Plant Science Principles of Animal Science Environmental Science Climate 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.**

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

1.0 Credit

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.



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

1.0 Credit

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

1.0 Credit / 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.



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

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

1.0 Credit

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.

Science

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

1.0 Credit / 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.

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

245 – Advanced Placement Chemistry

1.0 Credit

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.

251DC - Dual Credit Human Anatomy and Physiology (Anticipated for 2024-25 school year)

1.0 Credit / 3 College Credits

Gr. 11, 12



The course is a study of the underlying process, at the cell, organ, and system levels of organization, which are the backbone of our modern understanding of the functioning human body. 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 integumentary, skeletal, muscular, nervous, digestive, cardiovascular, and urinary systems. This course is intended for students who wish to earn college credit while in high school. An agreement with Immaculata University to offer this course is currently in process. See page 18 for further details.

Prerequisite: "B" or higher in Biology and "B" or higher in Chemistry, Physics, or Earth & Space Science.

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 (Biology and Chemistry are preferred) 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 meteorology and oceanography. 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. 10, 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.

272 – Introduction to Forensic Science

.5 Credit

Gr. 11, 12

This course is intended for students interested in learning the discipline of forensic science and crime scene investigations. Students will be expected to work individually and in teams when engaging in laboratory work and analysis of case studies. Students will practice applying scientific knowledge to solve complex problems, communicate clearly and effectively with others, and prepare and defend conclusions based on evidence through writing and speaking.

Students will be introduced to the following topics throughout the course:

- History of Forensics, Crime Labs, and Careers in Forensic Science
- The Crime Scene: Observation Skills, Deductive Reasoning, Crime Scene Basics, Types of Evidence, Evidence Collection, Crime Scene Processing, Crime Scene Sketching and Photography, Autopsies, Entomology, and Anthropology.
- Hair and Fiber Analysis using microscopes.
- Forensic Serology: Blood Typing, Blood Spatter, and Forensic Toxicology
- DNA Basics, Profiling, and CODIS
- Fingerprinting, Ballistics, Arson, Explosives, Handwriting Analysis, and Chromatography

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

850 - Principles of Plant Science

1.0 Credit

Gr. 10, 11, 12

This 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 – Principles of Animal Science

1.0 Credit

Gr. 10, 11, 12

The major focus of this animal science course is to expose students to agriculture, animal science, and related career options. Students participating in the Animal Science course will engage in numerous experiences with animal science concepts through various 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. Students do NOT work with the barn animals and classroom animals in this course.

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.

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.

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.

Mathematics

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.

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.

Mathematics

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: "B" 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.

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.*

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.

Business Education

430 – Introduction to Business

.5 Credit

Gr. 9

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.

435 - Personal Finance

.5 Credit

Gr. 10, 11

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 or 11. **Students have the option of taking the course face-to-face or online through the Octorara Virtual Academy.**

OACTEP - Business Marketing & Entrepreneurship (CIP 52.0701)

Gr. 10, 11, 12

Business Marketing and Entrepreneurship is a rigorous three year career and technical education program. This OACTEP program is for students who have a business career plan in the fields of sales, and/or distribution and marketing operations. The program focuses on the process and techniques of direct wholesale and retail buying and selling operations. In addition, this program includes varying emphasis on technical knowledge of products and/or services marketed; related communication, economic, technological and computation skills; and abilities and attitudes associated with human relations. The program may also include management functions associated with owning and operating a business. Students must successfully complete all courses listed below, participate in FBLA, and take the NOCTI. Any student 18-years or older will also have the option to become a state certified notary.

Suggested Course Sequence

10th	11th	12th
Marketing Essentials The Digital Economy (.5) Employability Skills (.5)	Entrepreneurship Accounting	Business & Personal Law Honors Foundations of Business Business Work Experience

Scope and sequence may alternate between Grades 11 and 12.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification
Employability Skills

Notary Education Course
Office Pro

Business Education

484 – Marketing Essentials

1.0 Credit

Gr. 10, 11, 12

Students examine marketing concepts, functions, operations and organizations of businesses from the perspective of a business owner, marketing professional, and consumer. Students will conduct market research, develop a marketing plan, analyze case studies, discuss the latest marketing trends, analyze ethical marketing practices, and understand multicultural perspectives. This course includes advertising elements such as digital, mobile, & social networks, television, magazine, online, and outdoor advertisements. Students will gain a deeper understanding of the marketing mix, including product pricing, distribution, promotion, segmentation, research, and sales. Students will assist in the marketing and advertising of the school store. ***Also satisfies OACTEP Business Marketing and Entrepreneurship requirement.**

490 - The Digital Economy

.5 Credit

Gr. 10, 11, 12

This course provides an in-depth view of microeconomics with an overview of macroeconomic issues and the impact they have on the marketplace and the digital economy. A look at how Individuals, households, and firms make decisions regarding resource allocation is analyzed. Topics such as decision-making, demand-and-supply, market interaction, business cycles, and monetary and fiscal policy will be discussed. ***Also satisfies OACTEP Business Marketing and Entrepreneurship requirement.**

491 – Employability Skills

.5 Credit

Gr. 10, 11, 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. ***Also satisfies OACTEP Business Marketing and Entrepreneurship requirement.**

431 - Entrepreneurship

1.0 Credit

Gr. 11, 12

Entrepreneurship is a project-based course which develops entrepreneurial knowledge, skills, and attitudes, which guides students through the process of choosing, researching, planning and operating small businesses through simulations of their own design. In this course, students design and develop a potential enterprise that will fill a need in our community. A business plan will be completed in this course. Small business leadership and management skills are integral to this course. Students will assist in the operations of the school store. ***Also satisfies OACTEP Business Marketing and Entrepreneurship requirement.**

441DC - Dual Credit Honors Foundations of Business

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 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. ***Also satisfies OACTEP Business Marketing and Entrepreneurship requirement.**

461 – Accounting

1.0 Credit

Gr. 10, 11, 12

Accounting 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. It also prepares students for advanced studies in accounting. Students will learn to analyze, compute, and record business transactions, prepare financial statements, and payrolls. ***Also satisfies OACTEP Business Marketing and Entrepreneurship requirement.**

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. ***Also satisfies OACTEP Business Marketing and Entrepreneurship requirement.**

Business Education

476 – Business Work Experience

1.0 Credit

Gr. 12

In this course, students will use all the knowledge, skills, and competencies learned in their Business Marketing and Entrepreneurship Program courses and apply them to real world work experiences. Most students will accomplish this through operating the School Store. ***Also satisfies OACTEP Business Marketing and Entrepreneurship requirement.**

463DC – Dual Credit Honors Financial Accounting (Not offered every year - based on student demand)

1.0 Credit / 3 College Credits

Gr. 10, 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. Most colleges require two years of accounting for any business major. This could count as one of them. 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.



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 with the 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 online 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.

World Languages

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 audiotracks, 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.

546DC - Dual Credit Spanish IV (Anticipated for 2024-25 school year)

1.0 Credit / 3 College Credits

Gr. 11, 12



In Dual Credit Spanish IV, there is an emphasis on review, expansion, and application of grammar, vocabulary, and pronunciation through listening, speaking, reading, and writing as well as discussion of the geography and culture of Spain and Latin America. 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 for a variety of purposes. Students will be required to do more independent writing in and out of class. 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. This course is intended for students who wish to earn college credit while in high school. An agreement with Immaculata University to offer this course is currently in process. See page 18 for further details.

Prerequisite: "B" or higher in Spanish III.

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.

World Languages

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. 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.

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 the 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

(Baking/Pastry Arts CIP 12.0501 & Institutional Foods CIP 12.0508)

2.0 - 3.0 Credits

Gr. 10, 11, 12

This Pennsylvania approved blended Culinary Arts Pathway Career and Technical Education Program of Study acknowledges the multi-talented approach necessary to compete and excel in the dynamic food, baking/pastry, and beverage industries. This program will meet for 2-3 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, restaurant 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 for multiple culinary career pathways.

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 or institutional food 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification

Employability Skills

ProStart National Certificate of Achievement

ServSafe/Manager Food Safety Certification

ServSafe Allergen Certification

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

668 - Advanced Foods

1.0 Credit

Gr. 10, 11, 12

This course is designed as a follow up to Learning To Cook with a more in-depth exploration of artisanal foods. There is an extensive kitchen and food safety component of this course, and students will be given the opportunity to sit for ServSafe food handlers certification. This is a lab based course, and students will work with increasingly complex recipes to further develop their aptitude in flavor creation as well as textural components to complete plates. We will look at techniques such as fermentation, pickling, charcuterie, sauces, and breads. As with all of the "foods" courses, we are a scratch kitchen, and whenever possible, we will make everything from scratch. Additionally, we will look at food costing as well, so we have a realistic idea of what it takes to produce the foods we make. This is a fast paced, skill intensive course, perfect for those looking to further develop their skills in the kitchen as well as presentation skills.

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

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. This course will touch on agricultural impacts, social requirements, and the shifting food preferences locally, regionally, and at the nation level. Additionally, students will have an understanding of our own Nutritional needs and a look at proper balancing of foods 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 10% of the time. While we will have a few labs, this course is not centered around food preparation.

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 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.

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 caregiving 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.) **Participation in the course will satisfy the Personal Finance graduation requirement.**

671 – OACTEP - Child Care Education (CIP 19.0708)

2.0 - 3.0 Credits

Gr. 10, 11, 12

This 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 comprehensive curriculum covers topics such as writing and preparing lesson plans, understanding the child development principles of children from birth to age eight, exploring the topics of classroom design, nutrition, health and safety, professionalism, classroom management, observation and assessments, and preparing and presenting learning activities.

This Program of Study meets for 2-3 periods per day for three years. Students receive clinical experience in working with students in the Room-2-Bloom Preschool 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification

ServSafe/Manager Food Safety Certification

Employability Skills

ServSafe Allergen Certification

ProStart National Certificate of Achievement

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 music from a variety of genres and cultures of a grade 2.5 to 4 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.

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

Students must have participated in band during the previous school year. Students wishing to participate in band without previous band experience at Octorara must audition for the teacher.

Music

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 to 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/vocal placement test. Students will refine their vocal technique, explore a diverse repertoire spanning various musical genres, and cultivate the skills needed for ensemble singing. Grading will be based on the development of ensemble and musicianship skills, including sight-singing and aural training, as well as the interpretation of expressive elements in choral works. 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 a student has not participated in Chorus in the 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 a student has not participated in Chorus in the 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.

709 – Guitar II

.5 Credit

Fee: \$10.00

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

.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

.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.

Music

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

This is a half-year introductory course and is not meant for students who would like to “major” in art. 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 for the serious art student who is looking to pursue a career in this area of study. It will require time both in class and out of class to complete assignments and 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 in and out of class photo/drawing assignments, in class projects, and critiques.

** Please note that this class is not meant for the student who is just looking for an elective credit. It will require a strong work ethic both in and out of the classroom.*

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 (Not offered in 2024-2025)

1.0 Credit

Gr. 10, 11, 12

Pop art is a movement that sprang 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.

725 – Advanced Placement Studio Art 2-D Design

1.0 Credit

Gr. 10, 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 or web link access from Mrs. Beig in May of the previous year 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 or web link access from Mrs. Beig in May of the previous year 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.

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. This is an intense "independent study" run course. **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.

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

2.0 - 3.0 Credits

Gr. 10, 11, 12

Are you interested in game and concept art, animation, advertising design, graphic design, product design, or illustration? If the answer is yes, then this class is for you.

This course is a Pennsylvania approved Career and Technical Education Program of Study. In this course, students will be given projects that will incorporate all aspects of 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. Please note that further schooling is needed for some of the above mentioned careers. Programs such as Blender, Procreate, Adobe After Effects and Premiere Pro are not part of the course but can be learned by the student through a studio exploration class during year 2 or 3.

This Program of Study will meet 2-3 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification

Employability Skills

Adobe Certified Associate – Visual Communication Using Adobe Illustrator

Adobe Certified Associate – Visual Communication Using Adobe Photoshop

Adobe Certified Associate – Print & Design Media Publication Using Adobe InDesign

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

740 – Introduction to Graphic Design & Illustration I

.5 Credit

Gr. 9, 10, 11, 12

Ever curious about what the two-period Graphic Design & Illustration I class is like, but struggling to find space for it in your schedule? Unsure if you will like drawing and painting or getting creative on the computer using the Adobe Creative Suite? This half-year course invites you to explore both fine art and graphic design to see if it aligns with your interests and possibly your dream job. Who knows, you might end up absolutely loving it once you give it a shot - but you won't know until you try, right? If you discover that you like one part of the class more than the other, no problem – your teacher is there to guide you in selecting the right classes that match your style and interests.

741 – Introduction to Graphic Design & Illustration II

.5 Credit

Gr. 9, 10, 11, 12

Continue your exploration of Graphic Design & Illustration by joining the second part of this introductory class. Much like the first semester, this course is designed to expose you to various projects, helping you deepen your understanding of both fine art and graphic design. If you decide that this is the career field for you, sign up for the OACTEP - Graphic Design & Illustration course the following year - earning your PA Skills Certificate and OSHA Certification.

Prerequisite: Successful completion of Introduction to Graphic Design & Illustration I.

739 Design Major I, II, III

1.0 Credit

Gr. 10, 11, 12

This design course is for students who want to “major” in Graphic Design while still in high school, but can't afford to give up two periods. Please note that this course is exactly the same as OACTEP - Design & Illustration, but without the Illustration. 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). Please note that although your portfolio will be strong in graphic design, further schooling will require a portfolio that contains fine art as well. It is recommended that OACTEP is your first choice when scheduling to have a career in the arts.

Prerequisite: Successful completion of Introduction to Graphic Design & Illustration I & II or OACTEP - Graphic Design & Illustration.

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 Introduction to Graphic Design & Illustration I & II or OACTEP - Graphic Design & Illustration.

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 Ceramics 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

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 or web link access from Mrs. Beig in May of the previous year to which they want to enroll.

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

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. During each trimester, students will rotate to experience different introductory level career and technical programs in 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 trimester 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.

➤ 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 - Carpentry and Cabinetmaking (CIP 48.0703)

2.0 - 3.0 Credits

Gr. 10, 11, 12

This 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 2-3 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. 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 Carpentry and Cabinetmaking 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification
Employability Skills

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 (CIP 15.1301)

2.0 - 3.0 Credits / Up to 6 College Credits

Gr. 10, 11, 12

This 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 2-3 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. 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. Students have the potential to earn up to 6 college credits through Delaware County Community College. See page 18 for details about this dual credit opportunity.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification
Autodesk Certified User
Employability Skills

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



Technology Education

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.

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) (May not be offered in 2024-2025)

2.0 - 3.0 Credit

Gr. 10, 11, 12

This 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 2-3 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification
IT Fundamentals Pro
Comptia

A+
Office Pro
Cyber Security

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

Technology Education

833 – Computer Science Principles (May not be offered in 2024-2025)

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.

834 – Introduction to Computer Science - Python Coding (May not be offered in 2024-2025)

.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 (May not be offered in 2024-2025)

.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.

871 – Visual Design & Communication I

1.0 Credit

Gr. 9, 10, 11, 12

Visual Design and Communication involves a blend of technological skills and processes to produce creative solutions to real-world problems. In this hands-on course students will explore a variety of techniques and processes used in graphic design and photography. Projects will include, but are not limited to, screen printing, lithography, offset printing and digital printing. Students will learn elements and composition of design, experience using 35 mm SLR cameras, developing film in the darkroom, as well as using industry level Adobe design software like Photoshop, InDesign and Illustrator.

****There is a materials fee of \$10 for this course in order to cover supplies and ink.****

872 - Visual Design & Communication II/III

1.0 Credit

Gr. 10, 11, 12

Visual Design and Communication II/III involves a deeper exploration into the concepts learned in Visual Design & Communication I. This student-centered based course allows students the flexibility to develop solutions to a variety of projects of one's choice. In this hands-on course students will explore a variety of techniques and processes used in graphic design and 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 be expected to expand their skills in graphic design, desktop publishing, typesetting, photography, 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 \$10 to cover supplies and ink. Additional products may need to be purchased to meet the needs of each student's aspirations.****

Prerequisite: "C" or higher in Visual Design & Communication I.

Technology Education

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

2.0 - 3.0 Credits

Gr. 10, 11, 12

This course is a Pennsylvania approved Career and Technical Education Program of Study 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 2-3 periods per day for 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. Upon successful completion of the three-year program, seniors may be awarded 2 science credits towards their high school graduation requirements.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification	Pet CPR
Employability Skills	AI Training
Certified Landscape Technician	Dairy Leader of Tomorrow
Heartsaver First Aid CPR AED	National Safe Tractor & Machinery Operator
PA Certified Horticulturist	PA Nutrient Management Certification
Youth for the Quality Care of Animals	PA Pesticide Applicator Certification
PA Environment Agricultural Conservation Certification of Excellence	

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

850 - Principles of Plant Science

1.0 Credit

Gr. 10, 11, 12

This 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 - Principles of Animal Science

1.0 Credit

Gr. 10, 11, 12

The major focus of this animal science course is to expose students to agriculture, animal science, and related career options. Students participating in the Animal Science course will engage in numerous experiences with animal science concepts through various 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. Students do not work with the barn animals and classroom animals in this course.

Prerequisite: Successful completion of Biology.

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 Agricultural course or concurrent enrollment in an Agriculture course.

Technology Education

854 – OACTEP - Mechanical Systems Technology (CIP 01.0201)

2.0 - 3.0 Credits

Gr. 10, 11, 12

This 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 2-3 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. 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification

Employability Skills

National Safe Tractor and Machinery Operator

Pennsylvania Environment Agriculture Certificate

Briggs and Stratton Small Engine Certification

CASE

Outdoor Power Equipment Technician Certification

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

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

3.0 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, including the list of 88 possible industry credentials, 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.

Health and Physical Education

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.

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/Gifted 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.

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. Students complete necessary progress monitoring on their IEP math goals.

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.

Special Education/Gifted Education

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.

998 – Gifted Seminar

.5 or 1.0 Credit

Gr. 9, 10, 11, 12

The seminar course will provide gifted students in grades 9-12 an outlet for greater student expression and higher-level thinking in each student's area of giftedness and interest. Students will be given opportunities to develop and expand critical, creative, and innovative thinking skills through a variety of learning models and experiences, including project-based and inquiry-based learning models, collaboration with other gifted students, and participation in gifted challenges at the state and county level. The high school seminar class will be offered as a year-long or semester-long course. **Participation in the course will satisfy the Personal Finance graduation requirement for 10th grade students.**

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 and maintain a weekly journal of work activities. 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 work experience placements and providing transportation. The Work Experience Coordinator may assist with obtaining work placements as needed.

Prerequisites: Completed Work Experience Training Agreement including additional handouts from the initial packet, employer clearances (not applicable for those 18+) and a visit by the cooperative education coordinator.

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 and maintain a weekly journal of work activities.

Prerequisites: Completed Work Experience Training Agreement and counselor recommendation.

Career Development

009D – Diversified Occupations Experience (CIP 32.0105)

1.0 - 3.0 Credits (Seniors) .5 - 1.5 Credits (Juniors)

Gr. 11, 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 senior 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.

Students enrolled in this OACETP will have the opportunity to earn the following industry credentials:

OSHA Certification

S/P2 – Human Resources

Employability Skills

S/P2 - Soft Skills

Prerequisites: To be considered for D.O., students must complete a Student Employment Training Agreement and packet of required documents, as well as have passing grades in all courses, good attendance, and good discipline record (no suspensions) during the 10th or 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 (Seniors) .5 Credit (Juniors)

Gr. 11, 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 students enrolled in D.O. (009D) must concurrently enroll in Diversified Occupations Curriculum and must have completed the initial student packet in order to maintain eligibility to work.

995 - Technical College High School (TCHS)

3.0 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
Auto Collision Technology
Auto Service Technology
*Carpentry
*Criminal Justice

*Computer Information Systems
Cosmetology
*Culinary Arts
*Early Childhood Care & Education
Engineering and Robotics
Welding & Metal Fabrication

Engine Technology
HVAC/Refrigeration Technology
Health Career Pathways
Veterinary Science
Allied Health

*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 18, 2024 for the 2024-25 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 March 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 and industry credential opportunities, or to apply online, visit: www.technicalcollegehighschool.org

Prerequisites: Completed online application by March 18, 2024 and recommendation by Octorara Admissions Team.

OACTEP

OACTEP - Business Marketing & Entrepreneurship (CIP 52.0701)

Gr. 10, 11, 12

Business Marketing and Entrepreneurship is a rigorous three year career and technical education program. This OACTEP program is for students who have a business career plan in the fields of sales, and/or distribution and marketing operations. The program focuses on the process and techniques of direct wholesale and retail buying and selling operations. In addition, this program includes varying emphasis on technical knowledge of products and/or services marketed; related communication, economic, technological and computation skills; and abilities and attitudes associated with human relations. The program may also include management functions associated with owning and operating a business. Students must successfully complete all courses listed below, participate in FBLA, and take the NOCTI. Any student 18-years or older will also have the option to become a state certified notary.

Suggested Course Sequence

10th	11th	12th
Marketing Essentials The Digital Economy (.5) Employability Skills (.5)	Entrepreneurship Accounting	Business & Personal Law Honors Foundations of Business Business Work Experience

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:
 OSHA Certification
 Employability Skills
 Notary Education Course
 Office Pro

657 – OACTEP - Culinary and Baking/Pastry Arts

(Baking/Pastry Arts CIP 12.0501 & Institutional Foods CIP 12.0508)

2.0 - 3.0 Credits

Gr. 10, 11, 12

This Pennsylvania approved blended Culinary Arts Pathway Career and Technical Education Program of Study acknowledges the multi-talented approach necessary to compete and excel in the dynamic food, baking/pastry, and beverage industries. This program will meet for 2-3 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, restaurant 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 for multiple culinary career pathways.

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 or institutional food 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:
 OSHA Certification
 Employability Skills
 ProStart National Certificate of Achievement
 ServSafe/Manager Food Safety Certification
 ServSafe Allergen Certification

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

808 – OACTEP - Carpentry and Cabinetmaking (CIP 48.0703)

2.0 - 3.0 Credits

Gr. 10, 11, 12

This 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 2-3 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. 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 Carpentry and Cabinetmaking program become members of the SkillsUSA student organization to experience leadership and employability skills.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:
 OSHA Certification
 Employability Skills

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

671 – OACTEP - Child Care Education (CIP 19.0708)

2.0 - 3.0 Credits

Gr. 10, 11, 12

This 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 comprehensive curriculum covers topics such as writing and preparing lesson plans, understanding the child development principles of children from birth to age eight, exploring the topics of classroom design, nutrition, health and safety, professionalism, classroom management, observation and assessments, and preparing and presenting learning activities.

This Program of Study meets for 2-3 periods per day for three years. Students receive clinical experience in working with students in the Room-2-Bloom Preschool 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification	ServSafe/Manager Food Safety Certification
Employability Skills	ServSafe Allergen Certification
ProStart National Certificate of Achievement	

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.

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

2.0 - 3.0 Credits

Gr. 10, 11, 12

Are you interested in game and concept art, animation, advertising design, graphic design, product design, or illustration? If the answer is yes, then this class is for you.

This course is a Pennsylvania approved Career and Technical Education Program of Study. In this course, students will be given projects that will incorporate all aspects of 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. Please note that further schooling is needed for some of the above mentioned careers. Programs such as Blender, Procreate, Adobe After Effects and Premiere Pro are not part of the course but can be learned by the student through a studio exploration class during year 2 or 3.

This Program of Study will meet 2-3 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification	Adobe Certified Associate – Visual Communication Using Adobe Illustrator
Employability Skills	Adobe Certified Associate – Visual Communication Using Adobe Photoshop
	Adobe Certified Associate – Print & Design Media Publication Using Adobe Indesign

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

814 - OACTEP - Engineering (CIP 15.1301)

2.0 - 3.0 Credits / Up to 6 College Credits

Gr. 10, 11, 12

This 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 2-3 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. 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. Students have the potential to earn up to 6 college credits through Delaware County Community College. See page 18 for details about this dual credit opportunity.



Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification

Autodesk Certified User

Employability Skills

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

832 – OACTEP - Computer Technology (CIP 15.1202) (May not be offered in 2024-2025)

2.0 - 3.0 Credit

Gr. 10, 11, 12

This 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 2-3 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification

A+

IT Fundamentals Pro

Office Pro

CompTia

Cyber Security

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

854 – OACTEP - Mechanical Systems Technology (CIP 01.0201)

2.0 - 3.0 Credits

Gr. 10, 11, 12

This 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 2-3 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. 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification

Briggs and Stratton Small Engine Certification

Employability Skills

CASE

National Safe Tractor and Machinery Operator

Outdoor Power Equipment Technician Certification

Pennsylvania Environment Agriculture Certificate

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

OACTEP

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

2.0 - 3.0 Credits

Gr. 10, 11, 12

This course is a Pennsylvania approved Career and Technical Education Program of Study 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 2-3 periods per day for 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification	Pet CPR
Employability Skills	AI Training
Certified Landscape Technician	Dairy Leader of Tomorrow
Heartsaver First Aid CPR AED	National Safe Tractor & Machinery Operator
PA Certified Horticulturist	PA Nutrient Management Certification
Youth for the Quality Care of Animals	PA Pesticide Applicator Certification
PA Environment Agricultural Conservation Certification of Excellence	

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

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

3.0 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, including the list of 88 possible industry credentials, 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.

009D – Diversified Occupations Experience (CIP 32.0105)

1.0 - 3.0 Credits (Seniors)

.5 - 1.5 Credits (Juniors)

Gr. 11, 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 senior 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.

Students enrolled in this OACTEP will have the opportunity to earn the following industry credentials:

OSHA Certification	S/P2 – Human Resources
Employability Skills	S/P2 - Soft Skills

Prerequisites: To be considered for D.O., students must complete a Student Employment Training Agreement and packet of required documents, as well as have passing grades in all courses, good attendance, and good discipline record (no suspensions) during the 10th or 11th grade year. Students must also take the Diversified Occupations Curriculum course (009C) in conjunction with D.O.



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.

Prerequisite: 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

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.

Prerequisite: 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.

Prerequisite: 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.

Prerequisite: Course enrollment by administrative placement only.

Social Studies

Suggested Course Sequence

6th	7th	8th	9th
Social Studies 6	Social Studies 7	Social Studies 8	Honors World History
			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.

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	Science 8	Honors Biology
			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.

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: 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/pronunciation, greetings, farewells, introductions, numbers, dates, the weather, likes/dislikes, and describing appearances and personalities. Basic grammar is introduced, including subject pronouns, verbs, nouns, and adjectives. Students will explore the culture and history of Mexico throughout the course. Students are assessed through written and verbal tests, as well as projects and classroom participation.

World Languages

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

8111 – Band 7

Band 8

This course is a performance class in which students will rehearse and perform music from a variety of genres of a grade 1.5 to 3 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 in lessons, proper execution of scales, rudiments, arpeggios, and an 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. Students must have participated in band during the previous school year. Students wishing to participate in band without previous band experience at Octorara must audition for the teacher.

7020M – Chorus 7

8020M – Chorus 8

Chorus provides the student singer an opportunity to rehearse and perform appropriate choral music for three 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, and baritone. All students sing in the voice part which is chosen for them based upon their audition/vocal placement test. 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. Students must have participated in chorus during the previous school year. Students wishing to participate in chorus without previous choral experience at Octorara must audition for the teacher.

Music

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.

7035 - History of Modern Popular Music 7 (1/2 year course)

This course delves into the history of modern popular music, focusing on genres like hip-hop, pop, and rock. It will explore evolution, cultural significance, and key artists/albums.

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

Students will explore the elements of music through a variety of experiences and activities including (but not limited to) harmonizing instruments (ukuleles, keyboards, etc.), digital audio workstations, listening exercises, and projects (research, multimedia presentations, compositions). Students will gain a solid foundation in music theory, appreciation, and performance, with a lifelong appreciation for the diversity of musical expression.

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

Students will continue to explore the elements of music at a more advanced level through a variety of experiences and activities including (but not limited to) harmonizing instruments (ukuleles, keyboards, etc.), digital audio workstations, listening exercises, and projects (research, multimedia presentations, compositions). Students will gain a solid foundation in literacy, music theory, appreciation, and performance, with a lifelong appreciation for the diversity of musical expression.

Art

7014 – Art 7 (1/2 year course)

Students will focus on developing skills which include drawing, painting, graphic arts, collage, and other mediums. 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.

8034 – Advanced Art 8 (1/2 year course)

Advanced Art is an advanced-level visual art class for students who exhibit natural abilities in art including but not limited to drawing and painting. Students will learn art concepts and techniques including rendering, composition, drawing the figure and observation from life. Other mediums will be explored as well such as clay, papier mache and others. Students will learn more about the historical and cultural aspects of art as well. Students will also create artwork where their unique style and point of view will be seen through their art. Emphasis in Advanced Art is placed on creating a personal portfolio or original work that visually shows their artistic strengths. College and careers in the arts will also be discussed in this class.

Prerequisite: Course enrollment by administrative placement only.

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 builds upon the skills gained in the 7th grade technology education program. Students will have the opportunity to develop their own projects that tailor to their wants and interests.

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.

7009 – Exploring STEAM 7 (1/2 year course)

This course is designed specifically for 7th students to encourage the use of art to deepen knowledge in science, technology, engineering, and math. Students, using innovation, creativity, critical thinking, and graphic arts imagery, will begin to transform ideas, real-world problems, and data sets into products that are useful, easily understood, and more easily visualized. Use of 3D printers, graphic art software, and other technologies will be used.

With this STEAM course, students will also continue to develop the employability skills needed in today's ever-changing job market and will allow students, in combination with other courses offered in the area of career exploration, to continue their investigation of careers in science, technology, engineering, art, and math.

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, Nitroball volleyball, basketball, soccer, tennis, lacrosse, field hockey, and pickleball along with recreational game play. Students will also participate in the pacer fitness gram test. The goal of this course is for students to apply physical education and health 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 7th grade students in co-educational classes. Units taught include: mental, physical, and emotional/social health; nutrient; tobacco; reproductive system; and personal care.

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, Nitroball volleyball, basketball, soccer, tennis, lacrosse, field hockey, and pickleball along with recreational game play. Students will also participate in the pacer fitness gram test. 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: mental, physical, and emotional/social health; nutrient; drugs and alcohol health and disease; and sexual health.

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.

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 with an intensive multi-sensory approach to decoding and encoding through age-appropriate phonics instruction. Students work in small groups at their current instructional level to improve their decoding, encoding, and fluency skills.

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. Students complete necessary progress monitoring on their IEP math goals.

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 and coding.

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, digital literacy skills, and employability skills.

School Personnel Contact Information

Junior-Senior High School Administration:	(610) 593-8254
Dr. Jonathan Propper (Principal)	Ext. 60510
JT Fryer (Assistant Principal)	Ext. 60503
Brenton Brady (Assistant Principal)	TBD
Mark Peticca (Director of Career and Technical Education)	Ext. 50510

Junior-Senior High School Counseling Office:	(610) 593-8254
Amber Lowe (Grades 9-12 Counselor: A-H)	Ext. 60533
Jackie Smith (Grades 9-12 Counselor: I-R)	Ext. 60536
Jen German (Grades 9-12 Counselor: S-Z)	Ext. 60535
Kate Dill (Grades 7-8 Counselor)	Ext. 60534
Valerie Popov (Counseling Secretary)	Ext. 60530

Junior-Senior High School Personnel:	(610) 593-8254
Missie Hinton (Grades 10-12 Intervention Specialist)	Ext. 60015
Mark Durante (Grades 7-9 Intervention Specialist)	Ext. 50306
Sarah Morrissey (School Nurse)	Ext. 60504
Connie Good (Attendance Secretary)	Ext. 50545
Greg Fantazzi (Athletic Director)	Ext. 61111
Jen Shaw (Principal's Secretary)	Ext. 60502

District Office Personnel:	(610) 593-8238
Cheryl Todd (Registrar)	Ext. 30501
Amanda Fraterman (Supervisor of Special Education)	Ext. 30517
Cale Hilbolt (Student Services Director)	Ext. 30519
Dr. Elena Tachau (Director of Curriculum and Instruction)	Ext. 50530
Dr. Chris Schultz (Technology Integration Specialist; OVA Administrator)	Ext. 30521

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Bold

Confident in oneself

Responsible

Accountable for choices, actions, and attitude

Ambitious

Motivated to set goals and achieve them

Virtuous

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Energetic

Committed to school and community

Selfless

Concerned about the rights and feelings of others

Octorara Area Junior-Senior High School

226 Highland Road | Atglen, PA 19310

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