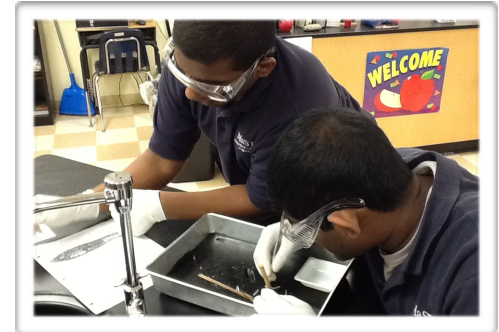
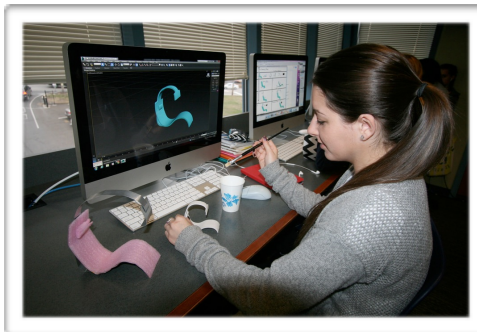




Innovative Educational Pathways Guide

Grades 9-12





Pathway: Engineering

	Grade	English (6 credits)	Social Studies (4 credits)	Mathematics (5 credits)	Science (4 credits)	PE (1)	Foreign Language (2 credits)	Pathway Classes	Electives (If Applicable)	
						Health (1)				
						Jr Seminar				
High School Curriculum	9 Freshman Academy	Literature & Composition A Literature & Composition B Summer Reading (.25 Credit)	World History II	Alg 1A & 1B or Alg 2 & Geometry	Environmental Science	Health or Gym		Exploring Design & Technology		
	10	Literature & Composition C American Literature or Pre AP English Summer Reading (.25 Credit)		Algebra 2A & Alg 2B Alg 2 & Geometry Statistics & Honors Pre Calc	Biology		Spanish I & Spanish II or Rosetta Stone	Intro to Engineering Principles of Engineering Game Design Robotics I	<i>General Electives:</i> Intro to Sociology Intro to Psychology AP Psychology Anatomy Biotech Music Appreciation <i>Technology Electives:</i> Product Design I Product Design II Video Journalism Video I Robotics II 3D Animation	
	11	World Literature or AP English Literature & Composition D Summer Reading (.25 Credit)	US History II Gov & Econ	Geometry Pre Calculus Calculus or AP Calculus	Chemistry or Hnrs Chemistry AP Biology	Health or Gym Junior Seminar				
	12	Advanced Writing Summer Reading (.25 Credit)	Modern World or APUSH	Personal Finance or Pre Calculus Calculus AP Calculus	Physics Honors Physics					
Post Secondary Education Options (College or Career opportunities)										
Secondary career and technical education programs may lead to industry certificates, occupational opportunities or post-secondary education opportunities. The following options are just a sampling of what is available.										
Postsecondary Curriculum	Technical / Vocational Training Programs			Community College Programs			Local College/University Programs			
	ITT Technical Institute		PennCo Technical	CCP: Applied Sciences			Drexel University		Temple University	
	Operating Engineers Local #13		IBEW Local #98	Pennsylvania College of Technology			Widener University		University of Pennsylvania	
Career	Sample Careers									
	Electrical Engineer HVAC Professional Automotive Engineer			Computer Engineer Audio Engineer			Civil Engineer Biomedical Engineer		Chemical Engineer Nuclear Engineer	
Credit	Dual Enrollment Opportunities									
	Community College of Philadelphia Advance at College: may begin classes summer before Junior year, 3.0 GPA; classes cost \$300									
	Manor College: Junior or Senior, PSAT/SAT scores of 50/500 in Math & Reading, 90% attendance record; classes cost \$350									
	Drexel University High School Scholars: Junior or Senior, 3.5 GPA, PSAT/SAT scores of 120/1200 (Math + Reading); requires recommendations; classes are free but \$75 app fee									
University of Pennsylvania Young Scholars: must be a junior or Senior, 3.3 GPA, top 85% on PSAT/SAT/ACT, requires 2 recommendations; classes are free										



Pathway: Humanities

	Grade	English (6 credits)	Social Studies (4 credits)	Mathematics (5 credits)	Science (4 credits)	PE (1)	Foreign Language (2 credits)	Pathway Classes	Electives (If Applicable)
						Health (1)			
						Jr Seminar			
High School Curriculum	9 Freshman Academy	Literature & Composition A Literature & Composition B Summer Reading (.25 Credit)	World History II	Alg 1A & 1B or Alg 2 & Geometry	Environmental Science	Health or Gym		Exploring Design & Technology	
	10	Literature & Composition C American Literature or Pre AP English Summer Reading (.25 Credit)		Algebra 2A & Alg 2B Alg 2 & Geometry Statistics & Honors Pre Calc	Biology		Spanish I & Spanish II or Rosetta Stone	Intro to Sociology Music Appreciation Biotech Intro to Psychology or AP Psychology	<i>General Electives:</i> Anatomy <i>Technology Electives:</i> (must have 3) Product Design I Product Design II Video Journalism Video I Robotics I Robotics II 3D Animation Intro to Engineering Principles of Engineering Game and App Design
	11	World Literature or AP English Literature & Composition D Summer Reading (.25 Credit)	American History II Gov & Econ or AP Gov	Geometry Pre Calculus Calculus or AP Calculus	Chemistry or Hnrs Chemistry AP Biology	Health or Gym SAT Prep			
	12	Advanced Writing Summer Reading (.25 Credit)	Modern World or APUSH	Personal Finance or Pre Calculus Calculus AP Calculus	Physics Honors Physics				
Post Secondary Education Options (College or Career opportunities)									
Postsecondary Curriculum	Secondary career and technical education programs may lead to industry certificates, occupational opportunities or post-secondary education opportunities. The following options are just a sampling of what is available.								
	Technical / Vocational Training Programs			Community College Programs			Local College/University Programs		
	Police Force Fire Department Jean Madeline Toni & Guy Orleans: Human Services			CCP: Education, Liberal Arts, Psychology Manor College: Education, Liberal Arts, Psychology			Holy Family University, West Chester University, Temple University, Arcadia University		
Career	Sample Careers								
	Police Officer Fire Fighter Hairdresser Case Manager Assistant			Daycare Worker Secretary			Teacher Counselor Social Worker Case Manager		
Credit	Dual Enrollment Opportunities								
	Community College of Philadelphia Advance at College: may begin classes summer before Junior year, 3.0 GPA; classes cost \$300 Manor College: Junior or Senior, PSAT/SAT scores of 50/500 in Math & Reading, 90% attendance record; classes cost \$350 Drexel University High School Scholars: Junior or Senior, 3.5 GPA, PSAT/SAT scores of 120/1200 (Math + Reading); requires recommendations; classes are free but \$75 app fee University of Pennsylvania Young Scholars: must be a junior or Senior, 3.3 GPA, top 85% on PSAT/SAT/ACT, requires 2 recommendations; classes are free								



Pathway: Product Design

	Grade	English (6 credits)	Social Studies (4 credits)	Mathematics (5 credits)	Science (4 credits)	PE (1)	Foreign Language (2 credits)	Pathway Classes	Electives (If Applicable)
						Health (1)			
						Jr Seminar			
High School Curriculum	9 Freshman Academy	Literature & Composition A Literature & Composition B Summer Reading (.25 Credit)	World History II	Alg 1A & 1B or Alg 2 & Geometry	Environmental Science	Health or Gym		Exploring Design & Technology	
	10	Literature & Composition C American Literature or Pre AP English Summer Reading (.25 Credit)		Algebra 2A & Alg 2B Alg 2 & Geometry Statistics & Honors Pre Calc	Biology		Spanish I & Spanish II or Rosetta Stone	Product Design I Product Design II 3D Design & Animation Video I	<i>General Electives:</i> Intro to Sociology Intro to Psychology AP Psychology Anatomy Biotech Music Appreciation <i>Technology Electives:</i> Video Journalism Robotics I Robotics II Intro to Engineering Principles of Engineering Game Design
	11	World Literature or AP English Literature & Composition D Summer Reading (.25 Credit)	US History II Gov & Econ	Geometry Pre Calculus Calculus or AP Calculus	Chemistry or Hnrs Chemistry AP Biology	Health or Gym Junior Seminar			
	12	Advanced Writing Summer Reading (.25 Credit)	Modern World or APUSH	Personal Finance or Pre Calculus Calculus AP Calculus	Physics Honors Physics				
Post Secondary Education Options (College or Career opportunities)									
Postsecondary Curriculum	Secondary career and technical education programs may lead to industry certificates, occupational opportunities or post-secondary education opportunities. The following options are just a sampling of what is available.								
	Technical / Vocational Training Programs			Community College Programs			Local College/University Programs		
	IBPAT District #21 Sheet Metal Workers Union UTI : Auto body repair			CCP- Interior Design, Computer Assisted Design Arts Design & Media			Arcadia University, Philadelphia University Moore College of Art & Design, Drexel University		
Career	Sample Careers								
	Construction Worker Game Designer Auto body Technician			Web Design Interior Designer			Graphic Designer Fashion Designer Architect, Product Manufacturer, Industrial Designer		
Credit	Dual Enrollment Opportunities								
	Community College of Philadelphia Advance at College: may begin classes summer before Junior year, 3.0 GPA; classes cost \$300 Manor College: Junior or Senior, PSAT/SAT scores of 50/500 in Math & Reading, 90% attendance record; classes cost \$350 Drexel University High School Scholars: Junior or Senior, 3.5 GPA, PSAT/SAT scores of 120/1200 (Math + Reading); requires recommendations; classes are free but \$75 app fee University of Pennsylvania Young Scholars: must be a junior or Senior, 3.3 GPA, top 85% on PSAT/SAT/ACT, requires 2 recommendations; classes are free								



Pathway: Healthcare

	Grade	English (6 credits)	Social Studies (4 credits)	Mathematics (5 credits)	Science (4 credits)	PE (1)	Foreign Language (2 credits)	Pathway Classes	Electives (If Applicable)	
						Health (1)				
						Jr Seminar				
High School Curriculum	9 Freshman Academy	Literature & Composition A Literature & Composition B Summer Reading (.25 Credit)	World History II	Alg 1A & 1B or Alg 2 & Geometry	Environmental Science	Health or Gym		Exploring Design & Technology		
	10	Literature & Composition C American Literature or Pre AP English Summer Reading (.25 Credit)		Algebra 2A & Alg 2B Alg 2 & Geometry Statistics & Honors Pre Calc	Biology		Spanish I & Spanish II or Rosetta Stone	Anatomy Biotech Intro to Psychology **AP Biology	<i>General Electives:</i> Intro to Sociology AP Psychology Music Appreciation <i>Technology Electives:</i> Video I Video Journalism Robotics I Robotics II Engineering Game Design Principles of	
	11	World Literature or AP English Literature & Composition D Summer Reading (.25 Credit)	US History II Gov & Econ	Geometry Pre Calculus Calculus or AP Calculus	Chemistry or Hnrs Chemistry AP Biology	Health or Gym Junior Seminar		Product Desin I Product Design II Intro to Engineering 3D Animation		
	12	Advanced Writing Summer Reading (.25 Credit)	Modern World or APUSH	Personal Finance or Pre Calculus Calculus AP Calculus	Physics Honors Physics			**Highly recommended if you plan to apply to college as a Biology, Pre-Med, Pre-Dental or Pre-Vet major		
Post Secondary Education Options (College or Career opportunities)										
Secondary career and technical education programs may lead to industry certificates, occupational opportunities or post-secondary education opportunities. The following options are just a sampling of what is available.										
Postsecondary Curriculum	Technical / Vocational Training Programs			Community College Programs			Local College/University Programs			
	St. Christopher's Radiological Studies Thomas Jefferson			CCP: Nursing, Dental Hygiene, Medical Imaging Manor: Nursing, Dental Hygiene			Temple University, Drexel University, Widener University LaSalle University, Pennsylvania State University, UPENN			
Career	Sample Careers									
	EMT Technician Dental Assistant Medical Biller Pharmacy Technician			Dental Hygienist Physical Therapy Assistant Vet. Tech Radiologist			Biomedical Engineer Doctor Physical Therapist Surgeon Dentist Therapist Veterinarian			
Credit	Dual Enrollment Opportunities									
	<p>Community College of Philadelphia Advance at College: may begin classes summer before Junior year, 3.0 GPA; classes cost \$300</p> <p>Manor College: Junior or Senior, PSAT/SAT scores of 50/500 in Math & Reading, 90% attendance record; classes cost \$350</p> <p>Drexel University High School Scholars: Junior or Senior, 3.5 GPA, PSAT/SAT scores of 120/1200 (Math + Reading); requires recommendations; classes are free but \$75 app fee</p> <p>University of Pennsylvania Young Scholars: must be a junior or Senior, 3.3 GPA, top 85% on PSAT/SAT/ACT, requires 2 recommendations; classes are free</p>									



Pathway: General Technology

	Grade	English (6 credits)	Social Studies (4 credits)	Mathematics (5 credits)	Science (4 credits)	PE (1)	Foreign Language (2 credits)	Pathway Classes	Electives (If Applicable)
						Health (1)			
						Jr Seminar			
High School Curriculum	9 Freshman Academy	Literature & Composition A Literature & Composition B Summer Reading (.25 Credit)	World History II	Alg 1A & 1B or Alg 2 & Geometry	Environmental Science	Health or Gym		Exploring Design & Technology	
	10	Literature & Composition C American Literature or Pre AP English Summer Reading (.25 Credit)		Algebra 2A & Alg 2B Alg 2 & Geometry Statistics & Honors Pre Calc	Biology		Spanish I & Spanish II or Rosetta Stone	Video I Product Design I Principles of Engineering Robotics I	<i>General Electives:</i> Intro to Sociology Intro to Psychology AP Psychology Anatomy Biotech Music Appreciation <i>Technology Electives:</i> Product Design II Video Journalism Robotics II 3D Animation Intro to Engineering Game Design
	11	World Literature or AP English Literature & Composition D Summer Reading (.25 Credit)	USHistory II Gov & Econ	Geometry Pre Calculus Calculus or AP Calculus	Chemistry or Hnrs Chemistry AP Biology	Health or Gym Junior Seminar			
	12	Advanced Writing Summer Reading (.25 Credit)	Modern World or APUSH	Personal Finance or Pre Calculus Calculus AP Calculus	Physics Honors Physics				
Post Secondary Education Options (College or Career opportunities)									
Postsecondary Curriculum	Secondary career and technical education programs may lead to industry certificates, occupational opportunities or post-secondary education opportunities. The following options are just a sampling of what is available.								
	Technical / Vocational Training Programs			Community College Programs			Local College/University Programs		
	PennCo Technical ITT Technical Institute IBEW Local #98 Orleans: Building Traders			Computer Science Information Technology			Drexel University, Temple University West Chester, Arcadia University		
Career	Sample Careers								
	HVAC Professionals Electrician Help Desk Technician			Database Technician Deskside Support Specialist Network Analyst			Database Manager Network Security **RELEVANT TO ALL MAJORS**		
Credit	Dual Enrollment Opportunities								
	Community College of Philadelphia Advance at College: may begin classes summer before Junior year, 3.0 GPA; classes cost \$300 Manor College: Junior or Senior, PSAT/SAT scores of 50/500 in Math & Reading, 90% attendance record; classes cost \$350 Drexel University High School Scholars: Junior or Senior, 3.5 GPA, PSAT/SAT scores of 120/1200 (Math + Reading); requires recommendations; classes are free but \$75 app fee University of Pennsylvania Young Scholars: must be a junior or Senior, 3.3 GPA, top 85% on PSAT/SAT/ACT, requires 2 recommendations; classes are free								



Pathway: Robotics

	Grade	English (6 credits)	Social Studies (4 credits)	Mathematics (5 credits)	Science (4 credits)	PE (1)	Foreign Language (2 credits)	Pathway Classes	Electives (If Applicable)
						Health (1)			
						Jr Seminar			
High School Curriculum	9 Freshman Academy	Literature & Composition A Literature & Composition B Summer Reading (.25 Credit)	World History II	Alg 1A & 1B or Alg 2 & Geometry	Environmental Science	Health or Gym		Exploring Design & Technology	
	10	Literature & Composition C American Literature or Pre AP English Summer Reading (.25 Credit)		Algebra 2A & Alg 2B Alg 2 & Geometry Statistics & Honors Pre Calc	Biology		Spanish I & Spanish II or Rosetta Stone	Robotics I Robotics II Intro to Engineering Game Design	<i>General Electives:</i> Intro to Sociology Intro to Psychology AP Psychology Anatomy Biotech Music Appreciation <i>Technology Electives:</i> Video I Video Journalism Product Design I Product Design II 3D Animation Principles of Engineering
	11	World Literature or AP English Literature & Composition D Summer Reading (.25 Credit)	US History II Gov & Econ	Geometry Pre Calculus Calculus or AP Calculus	Chemistry or Hnrs Chemistry AP Biology	Health or Gym Junior Seminar			
	12	Advanced Writing Summer Reading (.25 Credit)	Modern World or APUSH	Personal Finance or Pre Calculus Calculus AP Calculus	Physics Honors Physics				
Post Secondary Education Options (College or Career opportunities)									
Postsecondary Curriculum	Secondary career and technical education programs may lead to industry certificates, occupational opportunities or post-secondary education opportunities. The following options are just a sampling of what is available.								
	Technical / Vocational Training Programs			Community College Programs			Local College/University Programs		
	IUEC Local #5 UTI	Boilmakers Local #13 PA Institute of Technology		CCP: Diagnostic Medical Imaging; Automotive Service Technology			Drexel University	Temple University	Widener University
Career	Sample Careers								
	Automotive Technician Construction Worker/Welder	NASCAR Technician		Marine Mechanic Quality Control Professional			Engineer Media and Game Developer		
Credit	Dual Enrollment Opportunities								
	<p>Community College of Philadelphia Advance at College: may begin classes summer before Junior year, 3.0 GPA; classes cost \$300</p> <p>Manor College: Junior or Senior, PSAT/SAT scores of 50/500 in Math & Reading, 90% attendance record; classes cost \$350</p> <p>Drexel University High School Scholars: Junior or Senior, 3.5 GPA, PSAT/SAT scores of 120/1200 (Math + Reading); requires recommendations; classes are free but \$75 app fee</p> <p>University of Pennsylvania Young Scholars: must be a junior or Senior, 3.3 GPA, top 85% on PSAT/SAT/ACT, requires 2 recommendations; classes are free</p>								



Pathway: Communications

	Grade	<i>General Electives:</i> Intro to Sociology Intro to Psychology AP Psychology Anatomy	Social Studies (4 credits)	Mathematics (5 credits)	Science (4 credits)	PE (1)	Foreign Language (2 credits)	Pathway Classes	Electives (If Applicable)
						Health (1)			
						Jr Seminar			
High School Curriculum	9 Freshman Academy	Literature & Composition A Literature & Composition B Summer Reading (.25 Credit)	World History II	Alg 1A & 1B or Alg 2 & Geometry	Environmental Science	Health or Gym		Exploring Design & Technology	
	10	Literature & Composition C American Literature or Pre AP English Summer Reading (.25 Credit)		Algebra 2A & Alg 2B Alg 2 & Geometry Statistics & Honors Pre Calc	Biology		Spanish I & Spanish II or Rosetta Stone	Video I Video Journalism Advanced Writing	<i>General Electives:</i> Intro to Sociology Intro to Psychology AP Psychology Anatomy Biotech Music Appreciation <i>Technology Electives:</i> Product Design I Product Design II Robotics I Robotics II 3D Animation Intro to Engineering Principles of Engineering Game Design
	11	World Literature or AP English Literature & Composition D Summer Reading (.25 Credit)	US History II Gov & Econ	Geometry Pre Calculus Calculus or AP Calculus	Chemistry or Hnrs Chemistry AP Biology	Health or Gym Junior Seminar			
	12	Advanced Writing Summer Reading (.25 Credit)	Modern World or APUSH	Personal Finance or Pre Calculus Calculus AP Calculus	Physics Honors Physics				
Post Secondary Education Options (College or Career opportunities)									
Postsecondary Curriculum	Secondary career and technical education programs may lead to industry certificates, occupational opportunities or post-secondary education opportunities. The following options are just a sampling of what is available.								
	Technical / Vocational Training Programs			Community College Programs			Local College/University Programs		
	Connecticut School of Broadcasting Orleans: Court Reporting			CCP: Art, Design & Media; Communication Studies; Marketing; Sound Recording & Technology			Pennsylvania State University, Temple University Drexel University, Rider University		
Career	Sample Careers								
	Radio Broadcaster Court Reporter Sports Broadcaster Webcaster			Lighting Technician Video Editor Audio-Visual Technician			News Anchor Journalist Director/Producer Marketing & Sales		
Credit	Dual Enrollment Opportunities								
	Community College of Philadelphia Advance at College: may begin classes summer before Junior year, 3.0 GPA; classes cost \$300 Manor College: Junior or Senior, PSAT/SAT scores of 50/500 in Math & Reading, 90% attendance record; classes cost \$350 Drexel University High School Scholars: Junior or Senior, 3.5 GPA, PSAT/SAT scores of 120/1200 (Math + Reading); requires recommendations; classes are free but \$75 app fee University of Pennsylvania Young Scholars: must be a junior or Senior, 3.3 GPA, top 85% on PSAT/SAT/ACT, requires 2 recommendations; classes are free								