

Innovative Educational Pathways Guide Grades 9-12













Pathway: Engineering

		English (6 credits)	Social Studies (4 credits)	Mathematics	Saiamaa	PE (1)	Faraian Languaga		Electives				
	Grade			(5 credits)	Science (4 credits)	Health (1)	Foreign Language (2 credits)	Pathway Classes	(If Applicable)				
		, ,	, ,	· ·	, ,	Jr Seminar	, ,		· · · · /				
	9	Literature & Composition A		Alg 1A & 1B or	Environmental			Exploring Design &					
	Freshman	Literature & Composition B	World History II	Alg 2 & Geometry	Science	Health or Gym		Technology					
	Academy	Summer Reading (.25 Credit)											
	10	Literature & Composition C		Algebra 2A & Alg 2B			Spanish I &						
E		American Literature or		Alg 2 & Geometry	Biology		Spanish II		General Electives:				
l no		Pre AP English		Statistics & Honors Pre	g,		or		Intro to Sociology Intro to Psychology				
High School Curriculum		Summer Reading (.25 Credit)		Calc			Rosetta Stone		AP Psychology				
S S	11	World Literature or	LIO I linton. II	Geometry	Chemistry or			Intro to Engineering	Anatomy Biotech				
၀၀		AP English	US History II	Pre Calculus	Hnrs Chemistry	Health or Gym		Principles of	Music Appreciation				
Sct		Literature & Composition D	Gov & Econ		AP Biology	Junior Seminar		Engineering Game Design	Technology Electives:				
gh		Summer Reading (.25 Credit)		Calculus or AP Calculus		0011101 0011111101		Robotics I	Product Design I				
Ī	12 Advanced Writing	Manda a Mada	D	Physics				Product Design II Video Journalism					
		Modern World	Personal Finance or	1 11,5100				Video I					
		0 5 11 (050 11)	or	Pre Calculus	Honors Physics				Robotics II 3D Animation				
		Summer Reading (.25 Credit)	APUSH	Calculus									
				AP Calculus									
		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.												
tsec	7	echnical / Vocational Training Progr	rams	Community College Programs			Local College/University Programs						
Pos C	ITT	Technical Institute PennCo Te	echnical	CCP: Applied Sciences			Drexel	Temple University					
	Onera	ating Engineers Local #13 IBEW	Local #98	Pennsylvania College of Technology			Widener University University of Pennsylvania						
	Sample Careers												
Career					oample careers		Ι						
င်ခ		Electrical Engineer HVAC Profession Automotive Engineer	Computer Engineer Audio Engineer			Civil En		Chemical Engineer Nuclear Engineer					
		<u>-</u> g			rollment Opportun	ities			Turne and an arrangement				
ير		Commu	nity College of Philad	delphia Advance at College: r	nay begin classes si	ummer before Junior	year, 3.0 GPA; classes	cost \$300					
Credit		Man	or College: Junior or	Senior, PSAT/SAT scores of	50/500 in Math & R	eading, 90% attenda	nce record; classes cos	st \$350					
0		Drexel University High School S	Scholars: Junior or S	Senior, 3.5 GPA, PSAT/SAT so	cores of 120/1200 (N	/lath + Reading); requ	uires recommendations	; classes are free but \$7	5 app fee				
		, ,		ars: must be a junior or Senio	,	· .			• •				
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Pathway: Humanities

		English (6 credits)	Social Studies (4 credits)	Mathematics (5 credits)	Science	PE (1)	Foreign Language	Pathway Classes	Electives (If Applicable)		
	Grade				(4 credits)	Health (1)	(2 credits)				
						Jr Seminar					
	9	Literature & Composition A		Alg 1A & 1B or	Environmental			Exploring Design &			
	Freshman	Literature & Composition B	World History II	Alg 2 & Geometry	Science	Health or Gym		Technology			
	Academy	Summer Reading (.25 Credit)		Alachar OA O Ala OD			0 0				
	10	Literature & Composition C		Algebra 2A & Alg 2B			Spanish I &				
L L		American Literature or		Alg 2 & Geometry	Biology		Spanish II		General Electives:		
cul		Pre AP English		Statistics & Honors Pre			or		Anatomy		
urri		Summer Reading (.25 Credit)		Calc			Rosetta Stone		Technology Electives:		
Ö	11	World Literature or	American History III	Geometry	Chemistry or			Intro to Sociology	(must have 3) Product Design I		
000		AP English	American History II	Pre Calculus	Hnrs Chemistry	Health or Gym		Music Appreciation	Product Design II		
Scł		Literature & Composition D	Gov & Econ or		AP Biology	SAT Prep		Biotech Intro to Psychology or	Video Journalism Video I		
High School Curriculum		Summer Reading (.25 Credit)	AP Gov	Calculus or AP Calculus		·		AP Psychology	Robotics I		
三	12 Advanced Writing		Modern World	Personal Finance or	Physics				Robotics II 3D Animation		
				, , , , ,				Intro to Engineering Principles of Engineering			
		Summer Reading (.25 Credit)	or	Pre Calculus	Honors Physics				Game and App Design		
		Suffiller Reading (.23 Credit)	APUSH	Calculus							
				AP Calculus							
				Post Secondary Education	Options (College	or Career opportuni	ties)				
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.										
stsec	7	echnical / Vocational Training Prog	rams	Community College Programs			Local College/University Programs				
Pos		Police Force Fire Departmen	nt	CCP: Education, Liberal Arts, Psychology			Holy Family University, West Chester University,				
	Jean M	adeline Toni & Guy Orleans: Huma	an Services	Manor College: Education, Liberal Arts, Psychology			Temple University, Arcadia University				
_	Sample Careers										
Career					·						
ပိ		Police Officer Fire Fighter Hairdresser Case Manager Assista	D	aycare Worker Secretary				unselor e Manager			
				Dual Er	rollment Opportun	ities					
		Commu	nity College of Philad	lelphia Advance at College: r			vear. 3.0 GPA: classes	s cost \$300			
Credit			, ,	Senior, PSAT/SAT scores of	, ,		•				
ū		Drexel University High School	· ·	•		O ,	,	•	5 ann fee		
		, ,		,	,	0// 1			ο αργ ισσ		
	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

		English (6 credits)	Social Studies (4 credits)	Mathematics	Science	PE (1)	Foreign Language	Pathway Classes	Electives (If Applicable)			
	Grade			(5 credits)	(4 credits)	Health (1)	(2 credits)					
	9	Literature & Composition A		Alg 1A & 1B or		Jr Seminar						
	Freshman	Literature & Composition B	World History II	Alg 2 & Geometry	Environmental Science	Health or Gym		Exploring Design & Technology				
	Academy	Summer Reading (.25 Credit)			Science			reciliology				
	10	Literature & Composition C		Algebra 2A & Alg 2B			Spanish I &					
Ξ		American Literature or		Alg 2 & Geometry	Dialago		Spanish II		General Electives:			
ן אָן		Pre AP English		Statistics & Honors Pre	Biology		or		Intro to Sociology			
ırıi		Summer Reading (.25 Credit)		Calc			Rosetta Stone		Intro to Psychology AP Psychology			
ပ	11	World Literature or		Geometry	Chemistry or				Anatomy Biotech			
000		AP English	US History II	Pre Calculus	Hnrs Chemistry	Health or Gym		Product Design I Product Design II	Music Appreciation			
Scł		Literature & Composition D	Gov & Econ		AP Biology	Junior Seminar		3D Design & Animation Video I	Technology Electives:			
High School Curriculum		Summer Reading (.25 Credit)		Calculus or AP Calculus				Video i	Video Journalism Robotics I			
エ	12	Advanced Writing	Modern World	Personal Finance or	Physics				Robotics II Intro to Engineering			
		Advanced writing	or	Pre Calculus	Llanara Dhyaica				Principles of Engineering			
		Summer Reading (.25 Credit)	APUSH	Calculus	Honors Physics				Game Design			
				AP Calculus								
	Post Secondary Education Options (College or Career opportunities)											
ary n	Secondary career and technical education programs may lead to industry cartificates, occupational enpertunities are next accordary education expertunities. The following entires are just a careeling of what											
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 w is available.											
stse	7	echnical / Vocational Training Progr	rams	Community College Programs			Local College/University Programs					
° 6	IBPA	T District #21 Sheet Metal Worke	rs Union	CCP- Interior Design, Computer Assisted Design			Arcadia University, Philadelphia University					
		UTI : Auto body repair		Arts Design & Media			Moore College of Art & Design, Drexel University					
	Sample Careers											
Career	C	onstruction Worker Game Des	ianer				Graphic Designer Fashion Designer					
		Auto body Technician	igno.	Web Desigr	n Interior Desi	gner		Architect, Product Manufacturer, Industrial Designer				
				Dual En	rollment Opportun	ities						
≝		Commu	nity College of Philad	delphia Advance at College: n	nay begin classes su	ummer before Junior	year, 3.0 GPA; classes	s cost \$300				
Credit		Man	or College: Junior or	Senior, PSAT/SAT scores of	50/500 in Math & Ro	eading, 90% attenda	nce record; classes cos	st \$350				
		Drexel University High School S	Scholars: Junior or S	enior, 3.5 GPA, PSAT/SAT so	cores of 120/1200 (M	lath + Reading); requ	uires recommendations	s; classes are free but \$7	5 app fee			
		University of Pennsy	rlvania Young Schola	ars: must be a junior or Senio	r, 3.3 GPA, top 85%	on PSAT/SAT/ACT, r	equires 2 recommenda	ations; classes are free				



Pathway: Healthcare

						DE (4)	1		I			
	Grade	English	Social Studies	Mathematics	Science	PE (1) Health (1)	Foreign Language	Pathway Classes	Electives			
	Grado	(6 credits)	(4 credits)	(5 credits)	(4 credits)	Jr Seminar	(2 credits)		(If Applicable)			
	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				
culum	10	Literature & Composition C American Literature or Pre AP English		Algebra 2A & Alg 2B Alg 2 & Geometry Statistics & Honors Pre	Biology		Spanish I & Spanish II or	Anatomy Biotech Intro to Psychology	General Electives:			
High School Curriculum	11	Summer Reading (.25 Credit) World Literature or AP English Literature & Composition D Summer Reading (.25 Credit)	US History II Gov & Econ	Calc Geometry Pre Calculus Calculus or AP Calculus	Chemistry or Hnrs Chemistry AP Biology	Health or Gym Junior Seminar	Rosetta Stone	**AP Biology Product Desin I Product Design II Intro to Engineering 3D Animation **Highly recommended if you plan to apply to college as a Biology, Pre-Med, Pre-Dental or Pre-Vet major	Intro to Sociology AP Psychology Music Appreciation Technology Electives: Video I Video Journalism Robotics I			
Ι	12	Advanced Writing Summer Reading (.25 Credit)	Modern World or APUSH	Personal Finance or Pre Calculus Calculus	Physics Honors Physics				Robotics II Principles o Engineering Game Design			
	AP Calculus Post Secondary Education Ontions (College or Career opportunities)											
Postsecondary Curriculum	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.											
tsec	7	echnical / Vocational Training Progr	rams	Community College Programs			Local College/University Programs					
Pos		St. Christopher's Radiological Studie	es	CCP: Nursing, Dental Hygiene, Medical Imaging			Temple University, Drexel University, Widener University					
		Thomas Jefferson	Manor: Nursing, Dental Hygiene			LaSalle University, Pennsylvania State University, UPENN						
r o					Sample Careers							
Career		EMT Technician Dental Assistar Medical Biller Pharmacy Technic		Dental Hygienist Vet. Te	Physical Therapy ch Radiologist		Biomedical Engineer Doctor Physical Therapist Surgeon Dentist Therapist Veterinarian					
				Dual Er	rollment Opportun	ities						
Credit			, ,	delphia Advance at College: r Senior, PSAT/SAT scores of	, ,							
		Drexel University High School S	Scholars: Junior or S	enior, 3.5 GPA, PSAT/SAT so	cores of 120/1200 (M	/lath + Reading); requ	ires recommendations	; classes are free but \$7	5 app fee			
		University of Pennsy	lvania Young Schola	ars: must be a junior or Senio	r, 3.3 GPA, top 85%	on PSAT/SAT/ACT, r	equires 2 recommenda	ations; classes are free				



Pathway: General Technology

		English (6 credits)	Social Studies (4 credits)	Mathematics	Science	PE (1)	Foreign Language	Pathway Classes	Electives (If Applicable)			
	Grade			(5 credits)	(4 credits)	Health (1)	(2 credits)					
						Jr Seminar						
	9	Literature & Composition A	Maddle a	Alg 1A & 1B or	Environmental	Hardlib and Gran		Exploring Design &				
	Freshman Academy	Literature & Composition B	World History II	Alg 2 & Geometry	Science	Health or Gym		Technology				
	,	Summer Reading (.25 Credit) Literature & Composition C		Algebra 2A & Alg 2B			Spanish I &					
_ ا	10	•					1 '					
lun		American Literature or		Alg 2 & Geometry	Biology		Spanish II		General Electives:			
icn		Pre AP English		Statistics & Honors Pre			or		Intro to Sociology Intro to Psychology			
l in		Summer Reading (.25 Credit)		Calc			Rosetta Stone		AP Psychology			
S	11	World Literature or	USHistory II	Geometry	Chemistry or			Video I	Anatomy Biotech			
hod		AP English	Cornstory ii	Pre Calculus	Hnrs Chemistry	Health or Gym		Product Design I	Music Appreciation			
Sc		Literature & Composition D	Gov & Econ	Outs I are AD Outs I a	AP Biology	Junior Seminar		Principles of Engineering	Technology Electives:			
High School Curriculum		Summer Reading (.25 Credit)		Calculus or AP Calculus				Robotics I	Product Design II Video Journalism			
エ	12		Modern World	Personal Finance or	Physics				Robotics II			
	Advanced Writing	or	Pre Calculus					3D Animation Intro to Engineering				
		Summer Reading (.25 Credit)	APUSH	Calculus	Honors Physics				Game Design			
		(APUSH									
				AP Calculus								
_		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.											
stsec	7	echnical / Vocational Training Progr	rams	Community College Programs			Local College/University Programs					
Pos	F	PennCo Technical ITT Technical Inst	itute	Computer Science Information Technology			Drexel University, Temple University					
	IB	EW Local #98 Orleans: Building Tr	aders				West Chester, Arcadia University					
ř		Sample Careers										
Career		HVAC Professionals Electric	cian	Database Technician	Deskside Sup	port Specialist	Database Manager Network Security					
		Help Desk Technician		N	etwork Analyst	, ,		**RELEVANT TO ALL N				
				Dual Er	rollment Opportun	ities						
±		Commu	nity College of Philad	delphia Advance at College: r	nay begin classes sı	ummer before Junior	year, 3.0 GPA; classes	cost \$300				
Credit		Man	or College: Junior or	Senior, PSAT/SAT scores of	50/500 in Math & R	eading, 90% attenda	nce record; classes cos	st \$350				
		Drexel University High School S	Scholars: Junior or S	Senior, 3.5 GPA, PSAT/SAT so	cores of 120/1200 (N	/lath + Reading); requ	ires recommendations	; classes are free but \$7	5 app fee			
		University of Pennsy	/Ivania Young Schola	ars: must be a junior or Senio	r, 3.3 GPA, top 85%	on PSAT/SAT/ACT, r	equires 2 recommenda	ations; classes are free				



Pathway: Robotics

	01.	Grade English (6 credits)	Social Studies (4 credits)	Mathematics (5 credits)	Science	PE (1)	Foreign Language	Pathway Classes	Electives (If Applicable)			
	Grade				(4 credits)	Health (1)	(2 credits)					
		Literature & Composition A		Alg 1A & 1B or		Jr Seminar						
	9 Freshman	Literature & Composition B	World History II	Alg 2 & Geometry	Environmental	Health or Gym		Exploring Design &				
	Academy	Summer Reading (.25 Credit)	Trong riletery ii	rug 2 a coomeny	Science	ricular or Cym		Technology				
	10	Literature & Composition C		Algebra 2A & Alg 2B			Spanish I &					
Ξ		American Literature or		Alg 2 & Geometry	Biologi		Spanish II		General Electives:			
ဂျ ဂျ		Pre AP English		Statistics & Honors Pre	Biology		or		Intro to Sociology Intro to Psychology			
Curriculum		Summer Reading (.25 Credit)		Calc			Rosetta Stone		AP Psychology Anatomy			
$\frac{1}{2}$	11	World Literature or	US History II	Geometry	Chemistry or			5	Biotech			
hoc		AP English	US HIStory II	Pre Calculus	Hnrs Chemistry	Health or Gym		Robotics I Robotics II	Music Appreciation			
Sc		Literature & Composition D	Gov & Econ	Calculus or AP Calculus	AP Biology	Junior Seminar		Intro to Engineering Game Design	Technology Electives: Video I			
High School		Summer Reading (.25 Credit)		Calculate of 711 Calculate				3	Video Journalism Product Design I			
_	12	Advanced Writing	Modern World	Personal Finance or	Physics				Product Design II			
			or	Pre Calculus	Honors Physics				3D Animation Principles of Engineering			
		Summer Reading (.25 Credit)	APUSH	Calculus	,							
				AP Calculus								
	Post Secondary Education Options (College or Career opportunities)											
lary m	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											
ouc I	secondary career and technical education programs may lead to industry certificates, occupational opportunities or post-secondary education opportunities. The following of available.											
Postsecondary Curriculum	Technical / Vocational Training Programs			Commun	ity College Progran	ns	Local College/University Programs					
80	II	UEC Local #5 Boilmakers Local	#13				Pennsylvania College of Technology					
		UTI PA Institute of Technolog	у	CCP: Diagnostic Medical Imaging; Automotive Service Technology			Drexel University	Temple University	Widener University			
<u>.</u>	Sample Careers											
Career	Autor	motive Technician NASCAR Tec	chnician	M	arine Mechanic		Engineer					
	Autoi	Construction Worker/Welder	Similolan		Control Professiona	I		Media and Game De	veloper			
				Dual En	rollment Opportuni	ities						
±		Commun	ity College of Philad	elphia Advance at College: m	nay begin classes su	mmer before Junior y	year, 3.0 GPA; classes	cost \$300				
Credit		Mano	or College: Junior or	Senior, PSAT/SAT scores of	50/500 in Math & Re	eading, 90% attendan	nce record; classes cos	t \$350				
		Drexel University High School S	cholars: Junior or Se	enior, 3.5 GPA, PSAT/SAT sc	ores of 120/1200 (M	ath + Reading); requi	ires recommendations;	classes are free but \$75	5 app fee			
	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: Communications

	Grade	Intro to Psychology	Social Studies (4 credits)	Mathematics	Science	PE (1)	Foreign Language	Pathway Classes	Electives			
				(5 credits)	(4 credits)	Health (1)	Foreign Language (2 credits)		(If Applicable)			
		AP Psychology	,	· ·	, ,	Jr Seminar	, ,		· · · · ·			
	9	Literature & Composition A		Alg 1A & 1B or	Environmental			Exploring Design &				
	Freshman	Literature & Composition B	World History II	Alg 2 & Geometry	Science	Health or Gym		Technology				
	Academy	Summer Reading (.25 Credit)										
	10	Literature & Composition C		Algebra 2A & Alg 2B			Spanish I &					
E		American Literature or		Alg 2 & Geometry	Biology		Spanish II		General Electives: Intro to Sociology			
 		Pre AP English		Statistics & Honors Pre	Biology		or		Intro to Psychology			
urri		Summer Reading (.25 Credit)		Calc			Rosetta Stone		AP Psychology Anatomy			
) <u>-</u>	11	World Literature or	US History II	Geometry	Chemistry or				Biotech Music Appreciation			
000		AP English	US HISTORY II	Pre Calculus	Hnrs Chemistry	Health or Gym		Video I				
Scł		Literature & Composition D	Gov & Econ		AP Biology	Junior Seminar		Video Journalism Advanced Writing	Technology Electives: Product Design I			
High School Curriculum		Summer Reading (.25 Credit)		Calculus or AP Calculus					Product Design II Robotics I			
エ	12 Advanced Writing	Modern World	Personal Finance or	Physics				Robotics II 3D Animation				
		or	Pre Calculus					Intro to Engineering				
		Summer Reading (.25 Credit)	APUSH	Calculus	Honors Physics				Principles of Engineering Game Design			
		(========	APUSH						Came Design			
				AP Calculus								
	_	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.											
stsec	7	echnical / Vocational Training Progr	rams	Community College Programs			Local College/University Programs					
Po P		Connecticut School of Broadcasting	3	CCP: Art, Design & Media; Communication Studies; Marketing; Sound Recording & Technology			Pennsylvania State University, Temple University					
		Orleans: Court Reporting					Drexel University, Rider University					
Ļ	Sample Careers											
Career		D. II D										
ပ		Radio Broadcaster Court Report Sports Broadcaster Webcas		Lighting Tech Audio	nician Video o-Visual Technician	Editor	Direc		Journalist arketing & Sales			
				Dual Er	rollment Opportur	ities						
±		Commu	nity College of Philad	delphia Advance at College: r	nay begin classes s	ummer before Junior	year, 3.0 GPA; classes	cost \$300				
Credit		Man	or College: Junior or	Senior, PSAT/SAT scores of	50/500 in Math & R	eading, 90% attenda	nce record; classes cos	st \$350				
		Drexel University High School S	Scholars: Junior or S	Senior, 3.5 GPA, PSAT/SAT so	cores of 120/1200 (N	/lath + Reading); requ	uires recommendations	; classes are free but \$7	5 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											