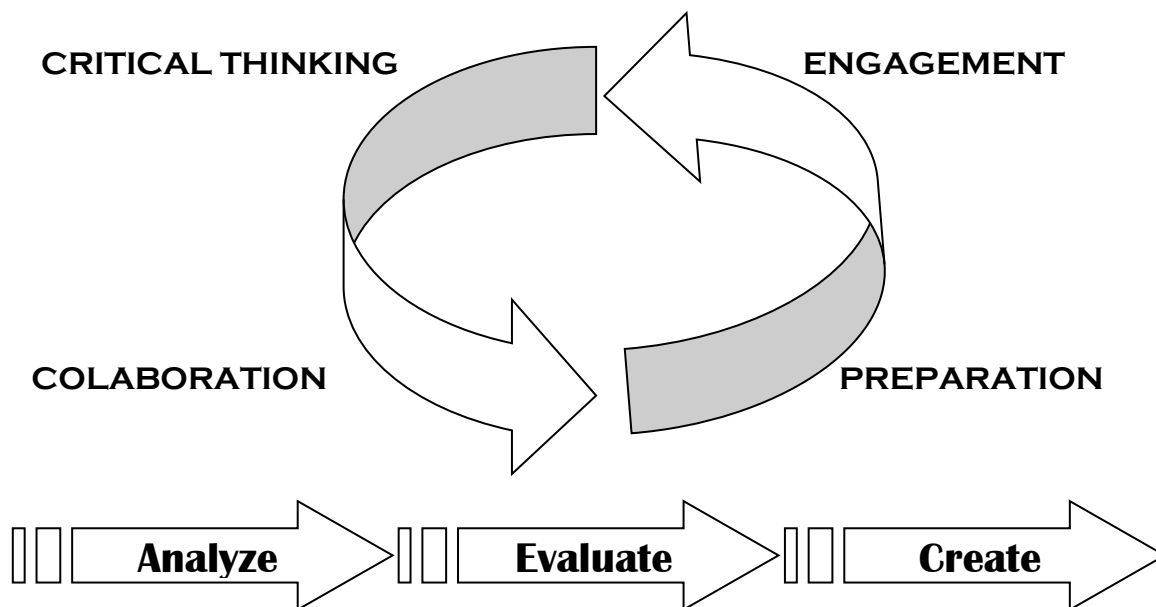


Shaler Area High School

Career Pathways

Several key Career Pathways were designed to guide students in course selection during their high school years. Each pathway is aligned with the Pennsylvania Career Education and Work Standards, Chapter 4 of Title 22, so that students can gain a sense of those fields and the necessary skills needed for success. Career Pathways are intended to push students beyond the typical criteria for acquiring a high school diploma. Each area is defined by a minimum accrual of 17 core credits: including 4 credits of English, 3 credits of mathematics, 3 credits of science, 4 credits of Social Studies, 3 credits of Health/P.E., plus department specific electives in accordance with a personalized Career Pathway. Students will conduct ongoing reviews of their personalized Career Pathway with their school counselor.



According to the U.S. Bureau of Labor Statistics¹, many of the fastest growing and highest paying careers are in the areas of science, technology, engineering, and mathematics. Shaler Area High School is responding to this employment trend by developing programs of study that will better prepare our students for employment and career stability. In addition to those fields, we believe that the practical Arts can engage students in developing a sense of creative expression and innovation. Therefore, our focus on science, technology, engineering, arts, and mathematics is intended to prepare our students for the emerging S.T.E.A.M. fields that utilize these cognitive skills.

Skills required for college or career readiness in S.T.E.A.M. programs include critical thinking, problem solving and teamwork. To better prepare our students, we have developed an educational framework for all disciplines and types of learners with the goal of engaging students in learning and providing opportunities for students to advance in a competitive employment market.

¹ Employment Projections program, U.S. Department of Labor, U.S. Bureau of Labor Statistics (2012).



Shaler Area High School

Career Pathways

BUILDING & CONSTRUCTION: Carpenter, Electrician, Machinist, Mechanic, Metal Worker, Operating Engineer, Tool & Die Maker

BUSINESS ADMINISTRATION: Accountant, Auditor, Broker, Financial Advisor, Human Resource Specialist, Insurance Agent, Public Relation Specialist

COMPUTER & INFORMATION TECHNOLOGY: Computational Scientist, Computer Scientist, Information Systems Analyst, Instructional Technologist, Nanotechnology Scientist, Robotics Engineer, Software Engineer

EDUCATION: Counselor, Educational Researcher, Learning Researcher, Librarian, Operations Researcher, Psychologist, Researcher, Social Worker, Teacher

ENGINEERING: Acoustical Engineer, Aerospace Engineer, Biomedical Engineer, Chemical Engineer, Civil Engineer, Computer Engineer, Electrical Engineer, Industrial Engineer, Mechanical Engineer, Nuclear Engineer, Petroleum Engineer

GLOBAL STUDIES: Civil Service Worker, Foreign Affairs and Diplomacy Specialist, Foreign Service Assistant, Governmental Agent, Human Resources Director, Humanitarian Aide, International Business Specialist, International Consultant

GRAPHIC DESIGN: Architect, Artist, Designer, Media Specialist, Photographer

HEALTH & MEDICINE: Medical Personnel, Healthcare Worker, Nurse, Personal Trainer, Physical Therapist, Sports Medicine, Veterinary Personnel

MATHEMATICS: Actuarial Scientist, Applied Mathematician, Mathematical Scientist, Statistician

SCIENCE: Biochemist, Biologist, Chemist, Energy Worker, Environmentalist, Geoscientist, Life Scientist, Medical Technologist, Physicist, Neurobiologist, Nuclear Physicist

SOCIAL STUDIES: Anthropologist, Economist, Government Agent, Historian, Lawyer, Paralegal, Politician, Social Scientist, Sociologist

Shaler Area High School Career Pathways

STANDARD DIPLOMA

English	4 credits	17 Core Credits
Math	3 credits	
Science	3 credits	
Social Studies	4 credits	
Phy. Ed.	2 credits	
Health	1 credit	
Electives	8 credits – Career Pathway dependent	
25 Credits		

Career Pathway: BUILDING & CONSTRUCTION

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Tech Ed Electives	4 credits
Business/Math Electives	2 credits
25 Credits	

Career Pathway: BUSINESS ADMINISTRATION

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Business/English Electives	4 credits
World Language	2 credits
25 Credits	

Career Pathway: COMPUTER & INFORMATION TECHNOLOGY

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Technology Electives	4 credits
Business/Math Electives	2 credits
25 Credits	

Shaler Area High School

Career Pathways

Career Pathway: EDUCATION

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
FACS/Music/Technology Electives	4 credits
World Language	2 credits
	25 Credits

Career Pathway: ENGINEERING

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Science/Technology/Math Electives	3 credits
Art/Music/Tech Ed	3 credits
	25 Credits

Career Pathway: GLOBAL STUDIES

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed. /Health	2 credits
Global Electives	5 credits
World Language	4 credits
	27 Credits
4 Extracurricular Activities, 20 Hours Community Service, 8 Literature Reviews	

Career Pathway: GRAPHIC DESIGN

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Art Electives	4 credits
Business/English Electives	2 credits
	25 Credits

Shaler Area High School

Career Pathways

Career Pathway: HEALTH & MEDICINE

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Science/Math Electives	4 credits
FACS/Technology Electives	2 credits
	25 Credits

Career Pathway: MATHEMATICS

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Business/Math Electives	4 credits
Technology Electives	2 credits
	25 Credits

Career Pathway: SCIENCE

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Science/Math Electives	4 credits
Technology Electives	2 credits
	25 Credits

Career Pathway: SOCIAL STUDIES

English	4 credits
Math	4 credits
Science	4 credits
Social Studies	4 credits
Phy. Ed.	2 credits
Health	1 credit
Social Studies Electives	4 credits
World Language	2 credits
	25 Credits

PA State Modern Language Association Global Scholars Program

REQUIREMENTS:

1. Academic Courses – average grade of B or higher
 - a. 4 years in the same foreign language
 - b. 4 additional credits of courses that are at least 50% global in nature
English – World Literature, AP English Literature
Social Studies – World Cultures, AP European History, Holocaust, Current Events,
Modern Global Conflicts, Geography

2. Extracurricular Activities (minimum 4)
 - a. World Language Club or Honor Society
 - b. School-sponsored activities that explore global aspects
Ex. School plays with a global/cultural aspect, Model UN, mock ICC, etc.
Field trips: museums, plays, restaurants
Guest speakers, programs brought to school

3. Service (minimum 20 hours)
 - a. Tutoring other world language students
 - b. Mentoring an exchange student or an ESL student
 - c. Working with younger students on world language activities
Ex. Preschool at high school, after school program at primary/elementary schools,
weekend program at public library, activities with SAMS language students
 - d. Global service project (choose an issue, research it, inform students, create an action plan)
Ex. Memory Project (art), etc.
 - e. Mission trips

4. Literature/Media Reviews (minimum of 8, at least 4 of which are books)
 - a. Pre-approved books available at library (display?)
 - b. Film showing at school
 - c. Literature/media that was part of a course (maximum of 2 per course)
 - d. Play review (school play)
 - e. Review must follow standard format, meet standards of rubric

Shaler Area High School

Career Pathways

APPLICATION

Student: _____ *Date:* _____

Career Pathway: _____

Department	SAHS Course	Credits
Math	1.	4 credits
	2.	
	3.	
	4.	
Science	1.	4 credits
	2.	
	3.	
	4.	
English	1.	4 credits
	2.	
	3.	
	4.	
Social Studies	1.	4 credits
	2.	
	3.	
	4.	
Physical Education		2 credits (4 units)
Health		1 credit (2 units)
Electives	1.	9 credits
	2.	
	3.	
	4.	
	5.	
	6.	
	7.	
	8.	
	9.	
	10.	
	11.	
	12.	
		28 Credits

Administrative Use Only

Approved by: _____

School Counselor, Date Administrator, Date



Smart Futures is an online career planning and career portfolio platform used by the

Shaler Area School District to:

- 1) Meet the new requirements for Career Readiness Indicators that are part of the Future Ready PA Index
- 2) Integrate career education and social emotional learning curriculum to our students from grades K - 12
- 3) Provide each student a personalized career plan and portfolio upon graduation

Smart Futures info for Students & Parents

Future Ready PA Index has prompted the Shaler Area School District to meaningfully engage students to develop skills needed to become “Future Ready” workers in the 21st century. SASD purchased an annual subscription that assures all students are engaged in an ongoing process to develop a concrete and personalized plan for their future.

Background: Pennsylvania is the first state in the U.S. to provide a solid framework for career education benchmarks and mandate its delivery for all students throughout K-12. Smart Futures is a part of our district’s plan to satisfy the career readiness indicators within the Future Ready PA Index and to comply with federal accountability requirements. Smart Futures is directly aligned to Pennsylvania’s Academic Standards for Career Education and Work, and the requirement to establish an online career plan and career portfolio. Smart Futures is portable. All work that students do travels with them should they leave the district and their plan and portfolio follow the student after graduation.

The SmartFutures.org Solution: Smart Futures has engaged with the Pennsylvania Department of Education to guide the development of SmartFutures.org, an online career planning and portfolio platform built specifically to help schools fully implement the Future Ready PA Index benchmarks into their classrooms. Unlike other off-the-shelf solutions, Smart Futures uses the Pennsylvania Academic Standards for Career Education and Work as its curriculum blueprint.

How Parents Can Help: Ask your student(s) to login to Smart Futures and show you their completed work and progress towards their plan and portfolio. Check out completed activities within each of the 4 grade bands: K-3, 4-5, 6-8 and 9-12. You will see interesting insights about “Who Am I” as well as “I CAN” statements that summarize the ways your student is being empowered by Future Ready PA. Review the career plan which documents the students’ interests in careers, career clusters, programs and majors and post-secondary schools and colleges. And help to expose them to career pathway experiences that they can document in their career portfolio.

Complete the following Activities in SMARTFUTURES

GRADE 9		
Activity #	Activity Name	Standard
1	New Thinking About Career Success	13.1, 13.4
2	My Personality Type	13.1, 13.3
3	Job Application	13.2
4	Preparation for Career	13.1
5	Abilities and Aptitudes	13.1
6	Personal Interests	13.1
7	Career Clusters and Pathways	13.1
8	Experiencing Careers While Still in School	13.1
Completed in Freshman Forum Classes		

GRADE 10		
Activity #	Activity Name	Standard
9	Selecting Your Career Goal	13.1
13	Active Listening	13.3
14	The Entrepreneur Within	13.4
15	Personal Budget	13.3
	Start “My Plan” & “My Portfolio”	
	Skill Badges	
Completed in Health 1 Classes		

GRADE 11		
Activity #	Activity Name	Standard
9	Selecting Your Career Goal	13.1
10	My Programs or Majors	13.1
11	My School and College Survey	13.1
12	Job Interviews	13.2
16	Multiple Intelligences	13.1
	Complete “My Plan” & “My Portfolio”	
	Complete Skill Badges	
Completed in Health 2 Classes		

GRADE 12		
Activity #	Activity Name	Standard
	Resume	13.3
	Skill Badges	
	Update “My Plan” & “My Portfolio”	
Completed in Senior English Classes		13.2

Pennsylvania/America's Career Clusters and Pathways...

 <p>Agriculture, Food & Natural Resources</p> <ul style="list-style-type: none"> Agribusiness Animal and Plant Systems Environmental or Natural Resource Systems Food Products and Processing Systems Power, Structural and Technical Systems 	 <p>Finance</p> <ul style="list-style-type: none"> Banking and Related Services Financial and Investment Planning Insurance Services 	 <p>911, Public Safety & Security</p> <ul style="list-style-type: none"> Correction Services Emergency and Fire Management Services Law Enforcement Services Legal Services Security and Protective Services
 <p>Architecture & Construction</p> <ul style="list-style-type: none"> Construction Design, Pre-Construction Maintenance/Operations 	 <p>Government & Public Administration</p> <ul style="list-style-type: none"> Governance National Security Planning Public Management and Administration Revenue and Taxation 	 <p>Manufacturing</p> <ul style="list-style-type: none"> Health, Safety and Environmental Assurance Logistics and Inventory Control Maintenance, Installation and Repair Manufacturing Production Process Development Production
 <p>Arts, AV Technology & Communications</p> <ul style="list-style-type: none"> Audio and Video Technologies Journalism and Broadcasting Performing Arts Printing Technologies Telecommunications Technologies 	 <p>Health Science</p> <ul style="list-style-type: none"> Biotechnology Research and Development Diagnosics Services Health Informatics Support Services Therapeutic Services 	 <p>Marketing, Sales & Service</p> <ul style="list-style-type: none"> Buying and Merchandising Distribution and Logistics Management Marketing, Communications and Promotion Professional Sales and Marketing
 <p>Business, Management & Administration</p> <ul style="list-style-type: none"> Administration and Information Support Business Analysis Business Financial Management and Accounting Human Resources Management 	 <p>Hospitality & Tourism</p> <ul style="list-style-type: none"> Lodging Recreation, Amusement and Attractions Restaurant/Food Services Travel and Tourism 	 <p>Science, Technology, Engineering & Mathematics</p> <ul style="list-style-type: none"> Engineering and Technology Science and Mathematics
 <p>Education & Training</p> <ul style="list-style-type: none"> Administration and Administrative Support Teaching and Training Professional Support Services 	 <p>Human Services</p> <ul style="list-style-type: none"> Consumer Services Counseling and Mental Health Services Early Childhood Dev. And Services Family and Community Services Personal Care Services 	 <p>Transportation, Distribution & Logistics</p> <ul style="list-style-type: none"> Facility and Mobile Equipment Maintenance Logistics Planning and Management Sales and Service Transportation Operations Transportation Infrastructure Warehousing and Distribution Operations
 <p>Information Technology</p> <ul style="list-style-type: none"> Information Support and Services Interactive Media Network Systems Programming/Software Engineering 		

...opportunities as endless as the stars!