

## Science, Technology, Engineering, and Mathematics Program of Study Potosi High School Career Cluster Program of Study

This Program of Study Template can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. Ask your high school courselor to help you fill in the required courses you need to graduate.

Grade	English 8 semesters	Math 6 semesters	Science 6 semesters	Social Studies 6 semesters	Other Required Courses, Recommended Electives	Career & Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to this Pathway		
9	Comm Arts I	High School Math Course	High School Science Course	High School S.S. Course	Personal Finance Computer Science Math Courses Physical Sciences See high school counselor for additional options	See high school counselor for additional options	<ul> <li>Aerospace Engineer</li> <li>Agricultural Engineer</li> <li>Analytical Chemist</li> <li>Anthropologist</li> <li>Architectural Engineer</li> <li>Astrophysicist</li> <li>Biomedical Engineer</li> <li>CAD Technician</li> <li>Civil Engineer</li> <li>Computer Programmer</li> <li>Ecologist</li> <li>Geothermal Engineer</li> <li>Math Teacher</li> <li>Mathematician</li> <li>Metallurgist</li> </ul>		
10	Comm Arts II	High School Math Course	High School Science Course	High School S.S. Course	Personal Finance Computer Science Math Courses Physical Sciences See high school counselor for additional options	See high school counselor for additional options			
11	Comm Arts III *English Comp I *Public Speaking	High School Math Course, Pre- Algebra *College Algebra *College Trig *College Calculus	High School Science Course *College General Biology –	High School S.S. Course *College Am. History I & II *College Political Systems	*Personal Finance *Computer Science *Math Courses *Physical Sciences (Available for Dual Enrollment)	*See high school counselor for additional college course offerings Farmington High School PLTW Classes Calc I, II &III Differential Equations Physics Gen Chem I (Available for Dual Enrollment)	<ul> <li>Metallurgist</li> <li>Statistician</li> <li>Survey Technician</li> <li>Zoologist</li> </ul>		
12	Senior Comm Arts & Comm Arts elective *English Comp II *Intro to Literature	High School Math Course, Pre- College Algebra, *College Algebra, *College Trig *College Calculus	High School Science Course *MFH College Intro to Chemistry – Potosi Hub	High School S.S. Course *College Am. History I & II *College Political Systems	*Personal Finance *Computer Science *Math Courses *Physical Sciences (Available for Dual Enrollment)	*See high school counselor for additional college course offerings Farmington High School PLTW Classes Calc I, II &III Differential Equations Physics Gen Chem I (Available for Dual Enrollment)			
*Dual Credit courses can often be substituted for high school credit. Check with your Counselor. *Dual Enrollment courses can be taken online or on a MAC campus. Assessments/Certifications: College Placement Assessments, Compass, ACT, SAT									
CTSO(s): 🗆 TSA	Clubs/Extracurricular Activities: Ask your Counselor what is available at your school. CTSO(s):  TSA FBLA Skills USA Work-Based Learning:  After School Employment Internship/Mentorship Job Shadowing Service Learning Supervised Business Experience								

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

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	Aerospace Engineer	Materials Engineer	Analytical Chemist	Materials Analyst					
	Aeronautical Engineer	Materials Lab & Supply Technician	Anthropologist	Materials Scientist					
	Agricultural Engineer	Mechanical Engineer	Applied Mathematician	Mathematician					
	Agricultural Technician	Metallurgic Engineer	Archeologist	Mathematics					
	Application Engineer	Mining Engineer	Astronomer	Metallurgist					
	Architectural Engineer	Naval Engineer	Astrophysicist	Meteorologist					
	Automotive Engineer	Network Technician	Atmospheric Scientist Biologist	Microbial Physiologist					
	Biomedical Engineer	Nuclear Engineer	Botanist	Mycologist					
	Biotechnology Engineer	Ocean Engineer	CAD Operator	Nanobiologist					
	Chemical Engineer	Operations Research Engineer	Cartographer	Nuclear Chemists					
	Civil Engineer	Packaging Engineer	Chemist	Nuclear Technician					
Sample	Communications Engineer	Packaging Technician	Communications Technologist	Numerical Analyst					
m	Computer Engineer	Petroleum Engineer	Conservation Scientist	Nutritionist					
ple	Computer Hardware Engineer Computer Programmer	Pharmaceutical Engineer	Cosmologist	Oceanographer					
Õ	Computer Programmer Computer Science Technician	Plastics Engineer	Cryptographer Crystallographer	Organic Chemist					
are	Computer Software Engineer	Power Systems Engineer	Demographer	Ornithologist					
er	Construction Engineer	Product Design Engineer	Dye Chemist	Paleontologist					
$\mathbf{S}\mathbf{p}$	Consultant	Project Engineer	Ecologist	Physicist					
Career Specialties / Occupations	Development Engineer	Project manager	Economist	Polymer Scientist					
ialt	Drafter	Prototype Engineer	Electronmicroscopist	Programmer					
ties	Electrical Engineer	Quality Engineer	Environmental Scientist	Protein Scientist					
	Electrician	Quality Technician	Expert Systems Scientist	Protozoologist					
Co	Electronics Technician	Radio/TV Broadcast Technician	Geneticist	Quality-Control Scientist					
cul	Energy Transmission Engineer	Radiology Engineer	Geologist	Radio Chemist					
pat	Environmental Engineer	Researcher	Geophysicist	Research Chemist					
ion	Facilities Technician	Safety Engineer	Geoscientist	Research Technician					
S	Fire Protection Engineer	Software Engineer	Herpetologist	Science Teacher					
	Geothermal Engineer	Sound Technician	Hydrologist	Lab Technician					
	Hazardous Waste Engineer	Structural Engineer	Ichthyologist	Scientific Visualization/Graphics Expert					
	Hazardous Waste Technician	Survey Technician	Inorganic chemist	Spectroscopist					
	Human Factors Engineer	Systems Design Engineer	Laboratory Technician	Statistician					
	Industrial Engineer	Technical Sales Manager	Mammalogist	Technical writer					
	Industrial Engineering Technician	Technical Writer	Marine Scientist						
	Licensing Engineer		Marine Scienust	Technologist					
	Manufacturing Engineer	Telecommunications Engineer		Toxicologist					
	Manufacturing Technician	Textile Engineer		Zoologist					
	Manufacturing Processes Engineer	Transportation Engineer							
	Marine Engineer	Nuclear Engineer and Procurement Engineer							
Path- ways	Engineer	ring and Technology	Science and Math						
h- ys			Science and Main						
κΩ		Cluster Knowledg							
Careeı K&S	•Academic Foundations •Communications •Problem Solving and Critical Thinking •Information Technology Applications • Systems • Safety, Health and Environment •Leadership and Teamwork •Ethics and Legal Responsibilities								
s ei		•Employability and Career Deve		1111105					
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