



## Science, Technology, Engineering & Mathematics Individual Graduation Plan

This career cluster plan of study is a source of information as you develop your own personal learning plan. This plan lists EXAMPLES of suggested coursework. Courses will vary according to the availability in each school district. Plans of study should meet high school graduation requirements as well as entrance requirements for a variety of postsecondary options within this career cluster.

■ Coursework				
Subject	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Language Arts</b> (9 credits)	English 9 Honors English 9 Speech	English 10 Honors English 10	English 11 AP English 11	English 12 AP English 12
<b>Mathematics</b> (8 credits)	Math class (per math dept. recommendation)	Math class (per math dept. recommendation)	Math class (per math dept. recommendation)	Math class (per math dept. recommendation)
<b>Science</b> (6 credits)	Earth Science Honors Earth Science	Biology AP Biology	Honors Chemistry	AP Physics Chemistry II
<b>Social Studies</b> (4 credits)	History 9	US History 10	US History 11 Dual Credit US History 11	American Government Adv. American Government
<b>Additional Requirements</b>	Freshman Transitions Humanities	Health PE	Business Computers PE	Economics
<b>Electives (52 total credits required for graduation)</b>	Fundamentals of Technology Exploring Web Design Intro to Drafting/CADD Intro to Information Technology	HTML Intro to Engineering Machining for Engineers Automated Manufacturing I Programming Fundamentals	IT Help Desk I Linux Mobile App Development Automated Manufacturing II	AP Computer Science Fundamentals of Geographical Information Systems IT Help Desk II Occupational and Career Experience Automated Manufacturing III Web App Development
■ Extended Learning				
<b>School-Based</b>	Program Recognized Student Skills USA	Higher Ed Day Skills USA	Higher Ed Day Career Interviews Job Shadowing Skills USA	Internships Senior Project Skills USA
<b>Community-Based</b>	Mentorships Industry sponsored camps & activities		Part-Time Employment Service Learning Project	

### Advanced Coursework for Postsecondary Credit

- English
- Statistical Methods
- Instructional Technology
- Art Appreciation
- Math
- Introduction to Education
- Developmental & Individual Differences
- Elementary Science Methods
- Biology
- The Holistic Child
- Inquiring, Thinking, Knowing
- Language and Literacy
- Communications
- Understanding Families
- Literature for Children
- Child Development Practicum I
- Psychology or Sociology
- Families, Community & Culture
- Elementary Math Methods