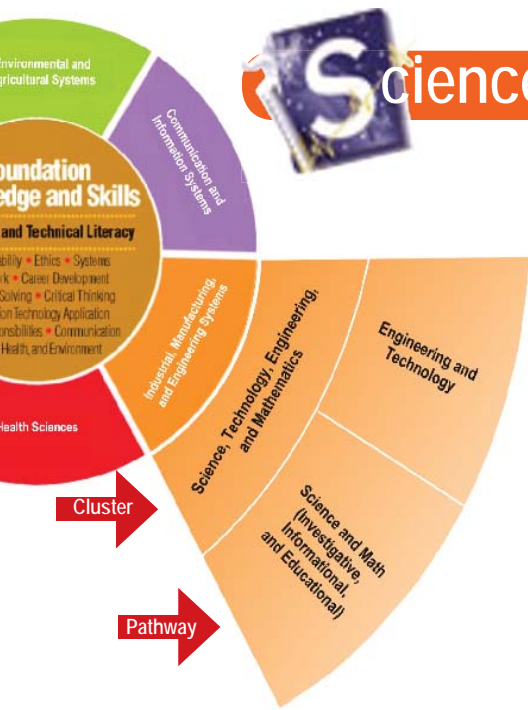


Science, Technology, Engineering, & Mathematics Plan of Study



This career cluster plan of study is a source of information to reference 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	7th -8th Grade	9th - 10th Grade	11th - 12th Grade	Advanced Coursework for Postsecondary Credit	
English	<input type="checkbox"/> English	<input type="checkbox"/> English I <input type="checkbox"/> English II	<input type="checkbox"/> English III <input type="checkbox"/> English IV	<input type="checkbox"/> Academic Transfer <input type="checkbox"/> Advanced Placement <input type="checkbox"/> Early Entry Program	
Math	<input type="checkbox"/> Math <input type="checkbox"/> Pre Algebra <input type="checkbox"/> Algebra I	<input type="checkbox"/> Geometry <input type="checkbox"/> Algebra I <input type="checkbox"/> Algebra II	<input type="checkbox"/> Algebra II <input type="checkbox"/> Trigonometry <input type="checkbox"/> Pre-Calculus <input type="checkbox"/> Calculus	<input type="checkbox"/> Academic Transfer <input type="checkbox"/> Advanced Placement <input type="checkbox"/> Early Entry Program	
Science	<input type="checkbox"/> Earth Science <input type="checkbox"/> Biology	<input type="checkbox"/> Biology I <input type="checkbox"/> Chemistry I	<input type="checkbox"/> Chemistry I <input type="checkbox"/> Physics <input type="checkbox"/> Anatomy/Physiology	<input type="checkbox"/> Academic Transfer <input type="checkbox"/> Advanced Placement <input type="checkbox"/> Early Entry Program	
Social Studies	<input type="checkbox"/> American History <input type="checkbox"/> Geography	<input type="checkbox"/> American History <input type="checkbox"/> Geography <input type="checkbox"/> World History	<input type="checkbox"/> American History <input type="checkbox"/> Economics <input type="checkbox"/> Government/Civics <input type="checkbox"/> Modern Problems <input type="checkbox"/> Psychology/Sociology	<input type="checkbox"/> Academic Transfer <input type="checkbox"/> Advanced Placement <input type="checkbox"/> Early Entry Program	
Nebraska Career Education Classes	<input type="checkbox"/> Career Cluster Exploratory Class <input type="checkbox"/> Other Career Education Courses	<input type="checkbox"/> Introduction to Industrial, Manufacturing, & Engineering System <input type="checkbox"/> AutoCAD <input type="checkbox"/> Engineering Technology <input type="checkbox"/> Industrial Technology <input type="checkbox"/> Project Lead the Way Courses <input type="checkbox"/> Technical Drafting		<input type="checkbox"/> Drafting Communications I, II <input type="checkbox"/> Engineering Drafting I, II	
Additional Requirements or Electives	<input type="checkbox"/> Art/Music/Theater <input type="checkbox"/> PE/Health & Wellness <input type="checkbox"/> World Languages <input type="checkbox"/> Speech/Communications	<input type="checkbox"/> Art/Music/Theater <input type="checkbox"/> PE/Health & Wellness <input type="checkbox"/> World Languages <input type="checkbox"/> Speech/Communications	<input type="checkbox"/> Art/Music/Theater <input type="checkbox"/> PE/Health & Wellness <input type="checkbox"/> World Languages <input type="checkbox"/> Speech/Communications	<input type="checkbox"/> Academic Transfer <input type="checkbox"/> Advanced Placement <input type="checkbox"/> Early Entry Program	
■ Extended Learning					
School-Based	<input type="checkbox"/> Skills USA <input type="checkbox"/> Cooperative Education <input type="checkbox"/> Job Shadowing <input type="checkbox"/> OPPD/NPPD PowerDrive <input type="checkbox"/> Service Learning Project	<input type="checkbox"/> Academy of Excellence <input type="checkbox"/> DECA <input type="checkbox"/> Junior Engineering Technical Society (JETS)	<input type="checkbox"/> Career Days <input type="checkbox"/> Discover Engineering <input type="checkbox"/> Science Club	<input type="checkbox"/> Career Interviews <input type="checkbox"/> FFA <input type="checkbox"/> Math Club <input type="checkbox"/> Senior Year Project	<input type="checkbox"/> Career Research <input type="checkbox"/> Internships <input type="checkbox"/> MATHCOUNTS
Community-Based	<input type="checkbox"/> Bright Lights <input type="checkbox"/> Mentorships	<input type="checkbox"/> E-Week <input type="checkbox"/> Part-Time Employment	<input type="checkbox"/> Mathematics Engineering Science Achievement (MESA) <input type="checkbox"/> Tests of Engineering Aptitude, Mathematics, and Science (TEAMS)		

The Science, Technology, Engineering, and Mathematics Career Cluster has two pathways that allow students to further explore and discover their favorite career specialties. Students can choose from several levels of education and training to pursue a career in their chosen pathway.

Pathways	Postsecondary Options
<input type="checkbox"/> Engineering & Technology	<ul style="list-style-type: none"> ● High School Diploma, On-the-Job Training ● Certificate/License ● Associate's Degree
<input type="checkbox"/> Science & Math (Investigative, Informational, & Educational)	<ul style="list-style-type: none"> ● Bachelor's Degree ● Master's/Doctoral/Professional Degree ● Military

Endorsed by: Nebraska Department of Education
Nebraska Career Education