



# SD Program of Study

## Power, Structural, & Technical Systems Pathway

This plan of study should 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. All plans should meet high school graduation requirements as well as postsecondary entrance requirements.

	GRADE	English	Math	Science	Social Studies/ Sciences	SD Required Electives	Career & Technical Education Courses	SAMPLE Career Options Relating to This Pathway	
Personal Learning Plan (PLP) initiated for all students, academic and career advisement and appropriate assessments.									
SECONDARY	9	* English/Language Arts I (01001)	* Algebra I (02052)	* Physical Science (03159)	* World History-Overview (04051)  * World Geography (04001)	* PE/Health  * Fine Art Elective	Introduction to Agriculture, Food, and Natural Resources (18001)  Leadership and Personal Development (18203)	Occupations Requiring Postsecondary Education ► Communication Technician ► Database Administrator ► Electronic Systems Technician ► Equipment/Parts Manager ► GPS Technician ► Heavy Equipment Maintenance Technician ► Information Lab Specialist ► Machine Operator ► Machinist ► Recycling Technician ► Remote Sensing Specialist ► Welder Occupations Requiring Baccalaureate Degree ► Agricultural Applications Software Developer/Programmer ► Agricultural Educator ► Agricultural Engineer ► Waste Water Treatment Plant Operator	
	10	*English/Literature II (01051) *Speech (01151)	* Geometry (02072) <sup>2</sup>	* Biology (03051)		1 unit total - any combination of:  * World Language or	Fundamental Ag Mechanics (18401)  Fundamental Ag Structures Technology (18403)		
	11	*English/Comp III (01102) *American Literature (01054)	* Algebra II (02056)	* Chemistry (03101)	* U.S. History-Comprehensive (04101)	* Capstone Service Learning or Approved Career & Technical Education	Ag Metals, Fabrication, and Technology (18404)  Ag Power Technology (18402)		
	12	* English/Language Arts IV (01004)	Calculus (02121) or Trigonometry (02103)	College Science Elective	* U.S. Government-Comprehensive (04151)  * Psychology (04254)	* Personal Finance (22210) or *Economics (04201)	Advanced Ag Structures Technology (18407)  *Capstone Experience		
POSTSECONDARY	Year 4	Written Communications	Information Literacy			Wellness for Life Arts & Humanities			
	Year 15								
	Year 16								
CAREER CLUSTER CERTIFICATES	Certified Welder (AWS) Commercial Applicator Certification (Pesticide) OSHA 10 Hour Safety Certification—Construction Industry OSHA 10 Hour Safety Certification—General Industry Private Applicator Certification (Pesticide)								
Orange Text - College Level - Dual Credit						* Classes available through Virtual School	<sup>2</sup> Recommended academic		