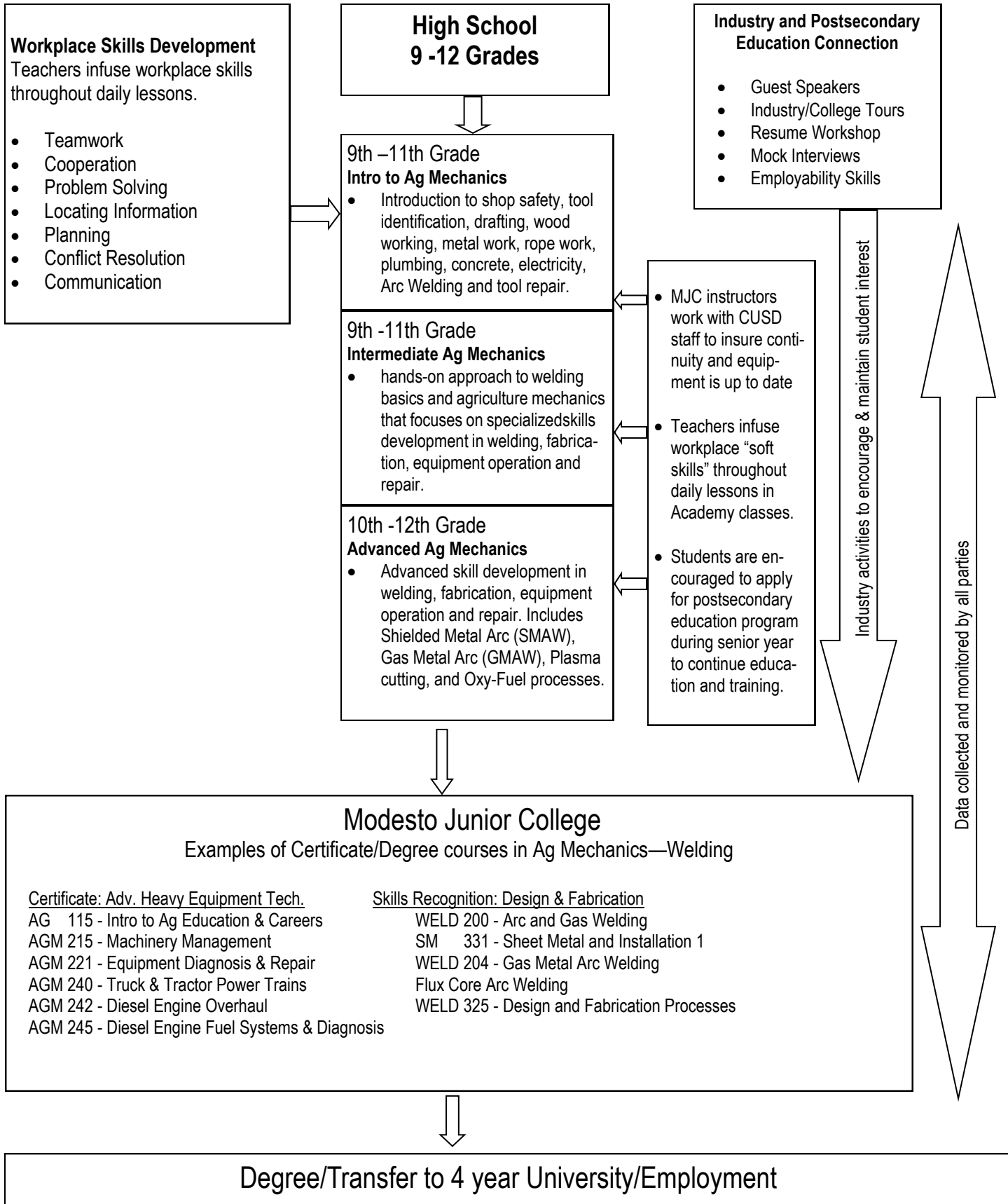


# Ag Mechanics Pathway

CTE Sector: Agriculture & Natural Resources—CTE Pathway: Agricultural Mechanics—CHS



## Program of Study Worksheet

This Program of Study should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

Industry Sector: Agriculture & Natural Resources

Career Pathway: Agricultural Mechanics Pathway – Ceres High

Program of Study: Ag Mechanics

This Program of Study is a formalized Tech Prep articulated pathway  Yes  No

LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies	Career Technical Education Courses	Other Required Courses or Recommended Electives	SAMPLE Occupations Relating to this Pathway
<b>SECONDARY</b>	9	English 9	Int. Mathematics I or Int. Accelerated Mathematics I	Physics of the Universe or Adv Phys. of the Universe	AP Human Geography	Intro to Ag Mechanics	PE Foreign Language	<b>Occupations requiring less than a Baccalaureate Degree</b> -Farm Equipment Welder -Heavy Equipment Operator -Equipment Service Tech -Ag & Turf Technician  <b>Occupations requiring a Baccalaureate Degree</b> -Agricultural Engineer -Machinery Technician  <b>Industry recognized certification, licenses, or credentials related to this pathway</b> -Ag Mechanics/Welding -Ag Sales, Service Tech -Mechanized Ag Tech
	10	English 10	Int. Mathematics II or Int. Accelerated Mathematics II	Chemistry in the Earth Systems or Adv Chemistry in Earth Systems	World History or AP European History	Intermediate Ag Mechanics	PE Drivers Ed/Health Foreign Language	
	11	English 11	Int. Mathematics III or Int. Acc. Mathematics III or AP Statistics	Biology of The Living Earth or AP Biology	U.S. History or AP U.S. History	Beginning student can take Intro class; 2 <sup>nd</sup> yr student can take Intermediate; and 3 <sup>rd</sup> yr student can take Advanced	Foreign Language	
	12	English 12	Pre-Calculus or AP Calculus or AP Statistics	AP Physics or Anatomy Physiology	Principles of Democracy or AP Government or Economics	Advanced Ag Mechanics		
<b>POSTSECONDARY</b>	Year 13	<b>Sample of Courses at Modesto Junior College</b> <u>Certificate: Adv. Heavy Equipment Tech.</u> <u>Skills Recognition: Design &amp; Fabrication</u> AG 115 - Intro to Ag Education & Careers      WELD 200 - Arc and Gas Welding AGM 215 - Machinery Management      SM 331 - Sheet Metal and Installation 1 AGM 221 - Equipment Diagnosis & Repair      WELD 204 - Gas Metal Arc Welding AGM 240 - Truck & Tractor Power Trains      Flux Core Arc Welding AGM 242 - Diesel Engine Overhaul      WELD 325 - Design and Fabrication Processes AGM 245 - Diesel Engine Fuel Systems & Diagnosis						
	Year 14							
	Year 15							
	Year 16							

