

Cluster – Manufacturing
Pathway –Production
Program of Study – Advanced Manufacturing

Sample Plan of Study

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Smart Core	English I or Pre-AP	English II or Pre-AP	English III or AP	English IV or AP
	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Trigonometry Pre- AP Calculus	AP Calculus College Algebra AP Statistics
	Physical Science	Biology Pre-AP Chemistry Applied Biology/Chemistry	Chemistry Physics Principles of Technology	AP Biology AP Chemistry AP Physics Earth & Space Science
	Civics	World History	US History	Economics
Foundation Courses Career Orientation Computer Technology Keyboarding Graduation Requirements English 4 units Math 4 units Science 3 units Social Studies 3 units Fine Arts ½ unit Health and Safety ½ unit Oral Communication ½ unit Physical Education ½ unit Career Focus 6 units Arkansas Challenge Foreign Language 2 units	Program of Study Support Courses EAST/Workforce Technology Internship Workplace Readiness Support Courses Foreign Language Word Processing or Computer Business Applications (CBA) Extended Learning Opportunities SkillsUSA Job Shadowing	Advanced Manufacturing Core Courses Advanced Manufacturing Advanced Manufacturing Electives Introduction to Manufacturing Design for Manufacturing Manufacturing Production Process Manufacturing Power and Equipment Systems Advanced Manufacturing Industry Certifications NIMS Related Programs of Study Furniture Manufacturing Machine Tool Technology Welding Industrial Equipment Maintenance		
Postsecondary Opportunities				
Major	Postsecondary School		Certificate/Degree Program	
Manufacturing Operations	PCC UA Helena		Certificate	
Manufacturing Technology	SAUT Camden PTC North Little Rock OTC Malvern NPCC Hot Springs UA Ft. Smith		Certificate & Associate's Associate's Certificate Certificate & Associate's Bachelor's	
Advanced Manufacturing Technology	ANC Blytheville ASU Newport EACC Forrest City MSCC West Memphis PCC UA Helena		Certificate & Associate's	
Lean Technology	EACC Forrest City		Certificate	
Industrial Maintenance – Apprenticeship	North Central Industrial Maintenance Apprenticeship		USDOL Certificate of Completion	