

**Cluster – Science, Technology, Engineering and Math**  
**Pathway – Engineering and Technology**  
**Program of Study – Drafting and Design Engineering/CAD**

**Sample Plan of Study**

	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Smart Core</b>	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
<b>Foundation Courses</b> Career Orientation Computer Technology Keyboarding  <b>Graduation Requirements</b> 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  <b>Arkansas Challenge</b> Foreign Language 2 units	<b>Program of Study Support Courses</b> EAST/Workforce Technology Internship Workplace Readiness  <b>Support Courses</b> Foreign Language Word Processing or Computer Business Applications (CBA)  <b>Extended Learning Opportunities</b> SkillsUSA Job Shadowing	<b>Drafting and Design Engineer/CAD Core Courses</b> Drafting and Design Engineering/CAD I  <b>Drafting and Design Engineer/CAD Electives</b> Engineering CAD II Engineering CAD Lab  <b>Drafting and Design Engineer/CAD Industry Certifications</b> ADDA Drafter  <b>Related Programs of Study</b> Welding Machine Tool: Industrial Equipment Maintenance		
<b>Postsecondary Opportunities</b>				
<b>Major</b>	<b>Postsecondary School</b>		<b>Certificate/Degree Program</b>	
2-D Mechanical CAD Drafting	ASU Beebe		Certificate	
Computer Aided Design	NAC Harrison		Certificate	
Computer Aided Drafting and Design	ASU Mtn. Home, ANC Blytheville		Certificate	
Computer Aided Drafting and Design (Architecture, Engineering and Manufacturing)	NWACC Bentonville		Certificate	
Drafting	PCC UA Helena UA CC Morrilton SEAC Pine Bluff		Certificate & Associate's	
Computer Aided Drafting and Design	ASU Beebe		Associate's	
Drafting and Design Technology	PTC North Little Rock		Associate's	
Drafting and Design	EACC Forrest City ASU Beebe		Certificate	
Pre-Engineering CADD	SAUT Camden		Certificate	
Engineering Manufacturing	OTC Malvern		Associate's	
Engineering Assistant	NPCC Hot Springs		Certificate	
Engineering Design Technology	EACC Forrest City		Certificate	

Mechanical Engineering	ASU Jonesboro, ATU Russellville, UA Fayetteville	Bachelor's
	UA Fayetteville	Master's
Mechanical Technology	UA Ft. Smith	Associate's