

**Cluster – Information Technology**  
**Pathway – Programming and Software Development**  
**Program of Study – Programming**

**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  <b>Extended Learning Opportunities</b> Future Business Leaders of America, (FBLA) Jobs for Arkansas Grads Job Shadowing	<b>Programming Core Courses</b> Computer Business Applications or Computer Applications I & II Programming I & II Advanced Spreadsheets Advanced Databases  <b>Programming Electives</b> Any other approved business elective  <b>Programming Industry Certifications</b> Visual Basic, C++, JAVA  <b>Related Programs of Study</b> ORACLE Web Design Digital Communications Computer Engineering		
<b>Postsecondary Opportunities</b>				
<b>Major</b>	<b>Postsecondary School</b>		<b>Certificate/Degree Program</b>	
Business Computer Applications	MSCC West Memphis, OZC Melbourne		Certificate	
Business Computer Information	SACC El Dorado		Certificate, Associate's	
Computer Applications	UA Ft. Smith ASU Jonesboro		Certificate Bachelor's	
Computer Applications Tech	OTC Malvern		Certificate	
Computer Apprentice	NPCC Hot Springs		Certificate	
Computer Electronics	ASU Beebe, Newport PTC North Little Rock		Certificate Associate's	
Computer Engineering	SAUT Camden UA Fayetteville		Certificate Bachelor's, Master's	
Computer Science	ASU Jonesboro UA Fayetteville, Little Rock & Pine Bluff ATU Russellville HSU Arkadelphia SAU Magnolia UCA Conway UA Ft. Smith UA Monticello		Bachelor's and Master's	

Computer Imaging Technology	SAUT Camden	Certificate
Computer Information Science	UACC Morrilton	Associate's
Computer and Information Science	SAU Magnolia UA Little Rock	Master's
Computer Information Systems	ANC Blytheville, CCCUA DeQueen, UA Ft. Smith	Certificate
Computer Information Systems	ANC Blytheville, SAU Magnolia, UA Ft. Smith	Associate's
Computer Information Systems	SAU Magnolia	Bachelor's
Information Technology	ATU Russellville, CCCUA DeQueen	Bachelor's and Master's
Computer Programming	OTU Malvern, NWACC Bentonville, UA Little Rock	Certificate
Networking Technology	UACC Batesville, Hope and Morrilton PCC UA Helena	Certificate
C++Programming	UA Ft. Smith	Certificate
CAD/CAM	NPCC Hot Springs	Certificate
CATIA	ASU Beebe	Certificate
Computer Numerical Control	UA Ft. Smith, MSCC West Memphis	Certificate
Computer Programming	NWACC Bentonville, UA Little Rock	Associate's
Computer Programming Techn	SAUT Camden	Associate's