

Name of Cluster: Information Technology
Name of Pathway: Programming & Software Development
Program of Study: Computer Programming

Grade	English	Math	Science	Social Studies/ Sciences	Other Required Courses, Recommended Electives, and Learner Activities	Career & Technical Courses	SAMPLE Occupations Relating to this Pathway
Interest Inventory Administered							Computer/Electrical Engineering, Computer Programmer (C++, Java, Python), Game Environment Developer, Unreal Engine Developer, 3D/2D Model Designer, Blender Developer, Data Entry, Word Processor, Office Management Systems
9	Lit & Comp I	Algebra I or Fundamental Math I	Physical Science	World History I and/or II (sem), Geography I and/or II (sem), and/or Mod Wld Issues (sem), and/or Recent Topics (sem)	All plans of study need to meet local and state high school graduation requirements as well as college entrance requirements. Web Design Multimedia	Intro to Business	
10	Lit & Comp II	Geometry or Fundamental Math II	Biology	World History I and/or II (sem), Geography I and/or II (sem), and/or Mod Wld Issues (sem), and/or Recent Topics (sem)		Business Tech, Computer Graphics	
11	Amer Lit III or Contemp Lit or G & R (sem) or Creative Wr (sem) or Dramatic Lit (sem) or Pub Pro	Algebra II or Fundamental Math III		US History		Computer Programming I	
12	Brit Lit or Contemp Lit or G & R or Creative Wr or Dramatic Lit or Pub Pro	College Algebra and Stats or Precalculus		Civics		Computer Programming II	
Early College Credit (articulated or dual). List name of college class below and * corresponding high school class above.			Describe Work-Based Learning Opportunities			List Industry Recognized Credentials	
			Select internships for 2nd year students			Java Level I - Java Oracle Institute MOS Excel MOS Word	
Postsecondary – name the degrees and certificates and institutions Waubensee - Computer Information Systems , 4-year university - Computer Programming/Computer Science							