

CLUSTER: STEM														Required Equipment List	X		
Revised 4-1-11														Specialized Facility	X		
														CTSO Required	TSA		
														CTSO Required	SkillsUSA		
														(U) Unit/(C) Course/(P)Program Technical Skill Assessment Available			
Pathway	Program	Subject Personnel Code	Program Courses	CIP Codes	AL COS	Articulated Credit	Substitute	Embedded	POI	Teacher Cert.	Occu. Prof.	Program Certification	Teacher Credential Necessary for Awarding Student Credential	Student Credential	SEC	PS	HE
	CTE Electives	400017	*Entrepreneurship	52.0701	Y				Y	Class B CTE		BIC					
		400031	Cooperative Education Seminar	52.9999	Y				Y	Class B CTE		BIC		Alabama Career Readiness Certificate	C		
		400016	Workforce Essentials	32.0111	Y				Y	Class B CTE		BIC					
		400021	*Personal Finance	19.0402	Y				Y	CTE Certificate		BIC					
		400023	Senior Career Pathway Project		Y				Y	CTE Certificate		BIC					
Engineering and Technology	Engineering	560011	Foundations of Engineering	15.1101	Y				Y	Career Technologies/TE/Physics/General Science/Physical Science/Math		BIC					
		560012	Engineering Applications	15.1101	Y				Y	Career Technologies/TE/Physics/General Science/Physical Science/Math		BIC					
		560013	Engineering Systems	15.1101	Y				Y	Career Technologies/TE/Physics/General Science/Physical Science/Math		BIC					
		560014	Engineering Research and Design	15.1101	Y				Y	Career Technologies/TE/Physics/General Science/Physical Science/Math		BIC					
		540031	Introduction to Robotics	15.1101	Y				Y	Career Technologies/TE/Physics/General Science/Physical Science/Math		BIC					
		540032	Robotics Applications	15.1101	Y				Y	Career Technologies/TE/Physics/General Science/Physical Science/Math		BIC					
		560015	Introduction to Engineering Design-PLTW	15.1101						Class B PLTW		PLTW	PLTW				
		560016	Principles of Engineering-PLTW	15.1101						Class B PLTW		PLTW	PLTW				

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Pathway	Program	Subject Personnel Code	Program Courses	CIP Codes	AL COS	Articulated Credit	Substitute	Embedded	POI	Teacher Cert.	Occu. Prof.	Program Certification	Teacher Credential Necessary for Awarding Student Credential	Student Credential	SEC	PS	HE				
		560017	Digital Electronics-PLTW	15.1103						Class B PLTW		PLTW	PLTW								
		560018	Aerospace Engineering-PLTW	15.0801						Class B PLTW		PLTW	PLTW								
		560019	Biotechnical Engineering-PLTW	15.1101						Class B PLTW		PLTW	PLTW								
		560020	Civil Engineering and Architecture-PLTW	15.0201						Class B PLTW		PLTW	PLTW								
		560021	Computer Integrated Manufacturing-PLTW	15.1101						Class B PLTW		PTLW	PLTW								
		560022	Engineering Design and Development-PLTW	15.1301						Class B PLTW		PTLW	PLTW								
														NOCTI - Pre-Engineering, Engineering Technology	P	X					
														Workforce Ready - Engineering Technology							
														Degree		X	X				
	Middle School	560001	Design and Modeling - PLTW							Class B PLTW		PLTW	PLTW								
		560002	Magic of Electrons - PLTW							Class B PLTW		PLTW	PLTW								
		560003	Automation and Robotics - PLTW							Class B PLTW		PLTW	PLTW								
		560004	Energy and the Environment - PLTW							Class B PLTW		PLTW	PLTW								
		560005	Flight and Space - PLTW							Class B PLTW		PLTW	PLTW								
		560006	Science and Technology - PLTW							Class B PLTW		PLTW	PLTW								
		400011	Career Cluster Technologies I (35 instructional-hour course) Grade 7		Y				Y	Class B-CTE		BIC									
		400012	Career Cluster Technologies (70 instructional-hour course) Grade 7		Y				Y	Class B-CTE		BIC									
		400013	Career Cluster Technologies I (140 instructional-hour course) Grade 7		Y				Y	Class B CTE		BIC									
		400014	Career Cluster Technologies II (70 instructional-hour course) Grade 8		Y				Y	Class B CTE		BIC									
		400015	Career Cluster Technologies II (140 instructional-hour course) Grade 8		Y				Y	Class B CTE		BIC									