

CLUSTER: ARCHITECTURE and CONSTRUCTION													Required Equipment List		X				
Revised 4-1-12													Specialized Facility	X					
													CTSO Required	SkillsUSA					
													CTSO Optional	FFA					
													Academic Credit		(U) Unit/(C) Course/(P)Program Technical Skill Assessment Available				
Pathway	Program	Subject Personnel Code	Program Courses	CIP Code	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	52.999	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							
Design and Preconstruction	Drafting Design Technology	430004	Architecture, Copnstruction, and Manufacturing		Y	*			Y	TE	Y	BIC							
		410005	Introduction to Drafting	15.1301	Y	X*			Y	TE/AG	Y	BIC							
		430010	Intermediate Drafting Design	15.1301	Y	*			Y	TE	Y	BIC							
		430011	Advanced Drafting Design	15.1301	Y				Y	TE	Y	BIC							
		430012	Structural Drafting	15.1301	Y				Y	TE	Y	BIC							
		430013	Introduction to Architectural Design	4.0201	Y				Y	TE	Y	BIC							
		430014	Intermediate Architectural Design	4.0401	Y				Y	TE	Y	BIC							
		430015	Advanced Architectural Design	4.0401	Y				Y	TE	Y	BIC							
		430016	Three-Dimensional Solid Model Design I	4.0401	Y				Y	TE	Y	BIC							
		430017	Three-Dimensional Solid Model Design II	15.1303	Y				Y	TE	Y	BIC							
		410011	Safety and Health Regulations		Y				Y	TE/AG/HS	Y	BIC							
													NOCTI - Architectural Drafting, Technical Drafting, Desgin and Pre-Construction	P					
													Work Force Ready - Technical Drafting, Architectural Drafting	P					
													OSHA	U					
													Degree				X		

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Construction	Building Construction	430004	Architecture, Construction, and Manufacturing		Y	*			Y	TE	Y	BIC/NCCER						
		410006	Construction Site Preparation and Foundations	46.0499	Y	*			Y	TE/AG	Y	BIC/NCCER						
		410007	Construction Framing	46.0499	Y	*			Y	TE/AG	Y	BIC/NCCER						
		410008	Construction Finishing and Interior Systems	46.0499	Y	*			Y	TE/AG	Y	BIC/NCCER						
		410011	Safety and Health Regulations		Y				Y	TE/AG/HS	Y	BIC/NCCER		OSHA				
														NCCER	NCCER - Carpentry	P		
															NOCTI - Building Construction Occupations, Construction pathway assessment	P		
													Workforce Ready - Carpentry	P				
													OSHA	U				
													Degree				X	
Construction	Cabinetmaking	430004	Architecture, Construction, and Manufacturing		Y	*			Y	TE	Y	BIC/NCCER						
		430021	Cabinetmaking I	48.0703	Y	X			Y	TE	Y	BIC/NCCER						
		430022	Cabinetmaking II	48.0703	Y	X			Y	TE	Y	BIC/NCCER						
		430023	Cabinetmaking III	48.0703	Y				Y	TE	Y	BIC/NCCER						
		410011	Safety and Health Regulations		Y				Y	TE/AG/HS	Y	BIC/NCCER						
														NCCER	NCCER - Carbinetmaking	P		
													Work Force Ready - Cabinetmaking	P				
													OSHA	U				
													Degree				X	
Construction	Carpentry	430004	Architecture, Construction, and Manufacturing	46.0201	Y	*			Y	TE	Y	BIC/NCCER						
		430030	Carpentry I	46.0201	Y	*		*	Y	TE	Y	BIC/NCCER						

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		430031	Carpentry II	46.0201	Y	*		*	Y	TE	Y	BIC/NCCER								
		430032	Carpentry for Industrial Specialties	46.0201	Y				Y	TE	Y	BIC/NCCER								
		430033	Carpentry for Commercial Specialties	46.0201	Y				Y	TE	Y	BIC/NCCER								
		430034	Carpentry for Residential Interiors	46.0201	Y	*		*	Y	TE	Y	BIC/NCCER								
		430035	Carpentry for Residential Exteriors	46.0201	Y	*		*	Y	TE	Y	BIC/NCCER								
		410011	Safety and Health Regulations		Y				Y	TE/AG/HS	Y	BIC/NCCER								
													NCCER	NCCER - Carpentry	P					
														NOCTI - Carpentry	P					
														Work Force Ready - Carpentry	P					
														OSHA	U					
														Degree			X			
Construction	Masonry	430004	Architecture, Construction, and Manufacturing		Y	*			Y	TE	Y	BIC/NCCER								
		410010	Introduction to Masonry	46.0101	Y	X		*	Y	TE/AG	Y	BIC/NCCER								
		430040	Block Wall Construction	46.0101	Y	X		*	Y	TE	Y	BIC/NCCER								
		430041	Residential Masonry I	46.0101	Y	*		*	Y	TE	Y	BIC/NCCER								
		430042	Residential Masonry II	46.0101	Y	*		*	Y	TE	Y	BIC/NCCER								
		430043	Composite Masonry Construction	46.0101	Y				Y	TE	Y	BIC/NCCER								
		430044	Commerical Masonry	46.0101	Y				Y	TE	Y	BIC/NCCER								
		430045	Masonry in High-Rise Constructon	46.0101	Y				Y	TE	Y	BIC/NCCER								
		430046	Masonry Special Applications and Finishes	46.0101	Y				Y	TE	Y	BIC/NCCER								
		430047	Specialty Masonry Construction	46.0101	Y				Y	TE	Y	BIC/NCCER								
		410011	Health and Safety Regulations		Y				Y		Y	BIC/NCCER								
													NCCER	NCCER - Masonry	P					
														NOCTI - Construction Masonry-Block, Construction Masonry-Brick, Construction Masonry-Stone	P					
														OSHA	U					
														Wrok Force Ready - Masonry	P					
														Degree			X			

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		430077	Gas Tungsten Arc Welding I	48.0508	Y				Y	TE	Y	BIC/NCCER										
		430078	Gas Tungsten Arc Welding II	48.0508	Y				Y	TE	Y	BIC/NCCER										
		410011	Safety and Health Regulations		Y				Y	TE/AG/HS	Y	BIC/NCCER										
													NCCER	NCCER - Welding	P							
														NOCTI - Welding	P							
													AWS	American Welding Society	P							
														Work Force Ready - Welding	P							
														OSHA	U							
														Degree			X					
Maintenance and Operations	Plumbing	430004	Architecture, Construction, and Manufacturing		Y				Y	TE	Y	BIC/NCCER										
		430091	Plumbing and Pipefitting I	46.0503	Y				Y	TE	Y	BIC/NCCER										
		430092	Plumbing and Pipefitting II	46.0503	Y				Y	TE	Y	BIC/NCCER										
		430093	Plumbing and Pipefitting III	46.0503	Y				Y	TE	Y	BIC/NCCER										
		410011	Safety and Health Regulations		Y				Y	TE/AG/HS	Y	BIC/NCCER										
													NCCER	NCCER - Plumbing, Pipefitting	P							
														NOCTI - Plumbing	P							
														Work Force Ready - Plumbing	P							
														OSHA	U							
														Degree			X					
Maintenance and Operations	Heating, Ventilation, Air Conditioning, and Refrigeration	430004	Architecture, Construction, and Manufacturing		Y	*			Y	TE	Y	BIC/NCCER										
		430121	Introduction to Heating, Ventilation, Air Conditioning and Refrigeration	47.0201	Y	*		*	Y	TE	Y	BIC/NCCER										
		430122	Basic Compression Refrigeration	47.0201	Y	*			Y	TE	Y	BIC/NCCER										

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		430123	Heating, Ventilation, Air Conditioning and Refrigeration Maintenance	47.0201	Y			*	Y	TE	Y	BIC/NCCER						
		430124	Introduction to Electricity for Heating, Ventilation, Air Conditioning and Refrigeration Systems	47.0201	Y	X*		*	Y	TE	Y	BIC/NCCER						
		430125	Heating, Ventilation, Air Conditioning and Refrigeration Electrical Components and Controls	47.0201	Y	*		*	Y	TE	Y	BIC/NCCER						
		430126	Refrigerants	47.0201	Y	*			Y	TE	Y	BIC/NCCER						
		430127	Commercial Refrigeration	47.0201	Y				Y	TE	Y	BIC/NCCER						
		430128	Heating and Heat Pump Systems	47.0201	Y				Y	TE	Y	BIC/NCCER						
		410011	Safety and Health Regulations		Y				Y	TE/AG/HS	Y	BIC/NCCER						
													NCCER	NCCER - HVAC	P			
														HCAC Excellence				
														NOTCI - HVAC, HVACR	P			
														Air Conditioning Heating and Refrigeration Institute (AHRI) ICE				
														OSHA	U			
														Degree			X	