CLUSTER: AGRICULTURE, FOOD AND NATURAL RESOURCES														Required Equipment List	X		
Revised 4-1-12														Specialized Facility	X		
														CTSO Required	FFA		
														CTSO Optional	SkillsUSA		
							Academic Credit						(U) Unit/(C) Course/(P)Program Technical Skill Assessment Available				
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	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					
Power, Structural, and Technical Systems	AgriContruction	410005	Introduction to Drafting Design	15.1301	Y			Science/HQ	Y	AG/TE		BIC					
		410006	Construction Site Preparation and Foundations	46.0499	Y	*			Y	AG/TE		BIC					
		410007	Construction Framing	46.0499	Y	*			Y	AG/TE		BIC					
		410008	Construction Finishing and Interior Systems	46.0499	Y	*		Science/HQ	Y	AG/TE		BIC					
		410009	Residential Wiring	46.0302	Y			Science/HQ	Y	AG/TE		BIC					
		410010	Introduction to Masonry	46.0101	Y	X			Y	AG/TE		BIC					
		410011	Safety and Health Regulations		Y			Science/HQ	Y	AG/TE/HS		BIC		OSHA 10 hour	C		
		420012	Introduction to Metal Fabrication 1 credit	48.0508	Y			Science/HQ	Y	AG		BIC					
		420013	Introduction to Metal Fabrication 1/2 credit	48.0508	Y				Y	AG		BIC					
		420014	Introduction to Metal Inert Gas/Flux Cored Arc Welding	48.0508	Y			Science/HQ	Y	AG		BIC					
														NOCTI Agriculture Mechanics	P		
														NOCTI Buildng Construction Occupations	P		
														NOCTI Carpentry	P		
														NOCTI Construction	P		
Power, Structural, and Technical Systems	Power Mechanics	410001	Two- and Four-Stroke Engines 1 credit	1.0204	Y			Science/HQ	Y	AG/TE		BIC					
		410002	Power Equipment Technology	1.0204	Y			Science/HQ	Y	AG/TE		BIC					

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		410022	Residential and Commercial Power Equipment	1.0204	Y			Science/HQ	Y	AG/TE		BIC					
		420011	Two- and Four-Stroke Engines 1/2 credit	1.0204	Y				Y	AG/TE		BIC					
														NOCTI Small Engine Technology	P		
														Briggs and Stratton Master Service Technician	P		
Animal Systems	**Animal Systems**	420030	Animal Science 1 credit	01.0901	Y			Science/HQ	Y	AG		BIC		Artificial Insemination Technician	U		
		420031	Animal Science 1/2 credit	01.0901	Y				Y	AG		BIC					
		420032	Animal Biotechnology	01.0901	Y			Science/HQ	Y	AG		BIC		NOCTI Agricultural Biotechnology	C		
		420033	Poultry Science	01.0907	Y			Science/HQ	Y	AG		BIC					
		420034	Equine Science	01.0307	Y			Science/HQ	Y	AG		BIC		Artificial Insemination Technician	U		
		410003	Introduction to Veterinary Science	51.0808	Y			Science/HQ	Y	AG/HS		BIC					
		410004	Veterinary Science	51.0808	Y			Science/HQ	Y	AG/HS		BIC					
														NOCTI Animal Systems	P		
														NOCTI Agricultural Biotechnology	P		
														NOCTI Production Agriculture	P		
Plant Systems	**Plant Systems**	420051	Horticultural Science 1 credit	01.1103	Y	X		Science/HQ	Y	AG		BIC		Alabama Junior Master Gardener	U		
		420052	Horticultural Science 1/2 credit	01.1103	Y				Y	AG		BIC					
		420053	Plant Biotechnology	01.1101	Y		Botany/HQ		Y	AG		BIC					
		420054	Greeenhouse Production and Management	01.0604	Y	X		Science/HQ	Y	AG		BIC		Alabama Junior Master Gardener	U		
		420055	Nursery Production and Management	01.0606	Y	X		Science/HQ	Y	AG		BIC		Alabama Junior Master Gardener	U		
		420056	Sports Turfgrass Production and Management	01.0607	Y	X		Science/HQ	Y	AG		BIC					
		420057	Landscape Design & Management 1 credit	01.0605	Y	X		Science/HQ	Y	AG		BIC		Landscape Management Technician	C		
		420058	Landscape Design & Management 1/2 credit	01.0605	Y				Y	AG		BIC					

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		420059	Residential Landscape Establishment & Management	01.0605	Y	X		Science/HQ	Y	AG		BIC					
														NOCTI Agricultural Biotechnology	P		
														NOCTI Floriculture	P		
														NOCTI Floriculture - Greenhouse	P		
														NOCTI Horticulture - Landscaping	P		
														NOCTI Horticulture - Olericulture and Pomology	P		
														NOCTI Production Agriculture	P		
														Setting of Landscape Plants (SLP) Permit	P		
														Tree Surgery (TS) Permit	P		
														Landscape Design (LD) Permit	P		
														Degree		X	X
Plant Systems	**Floral Design**	420060	Creative Floral Design	01.0608	Y				Y	AG/TE		BIC					
		420061	Specialty Floral Design and Management	01.0608	Y			Science/HQ	Y	AG/TE		BIC					
		420062	Floral Design and Interiorscaping	01.0608	Y			Science/HQ	Y	AG/TE		BIC					
														Degree		X	X
														NOCTI Floriculture	P		
														NOCTI Floriculture - Greenhouse	P		
Agribusiness Systems	**Agribusiness Systems**	420009	**Agriscience 1 credit**	**01.0000**	Y			Science/HQ	Y	AG		BIC		NOCTI Production Agriculture	C		
													Certified Hunter Safety Instructor	Hunter Education Certification	U		
													Instructor Certification	Hazardous Occupations Safety Training in Agriculture	U		
														Alabama Junior Master Gardener	U		
		420010	**Agriscience 1/2 credit**	**01.0000**	Y				Y	AG		BIC					
		420071	Agribusiness Technology	01.0106	Y			Science/HQ	Y	AG		BIC		Internet Computing Core Certification (IC3)	C		
		420072	Agribusiness Marketing	01.0105	Y				Y	AG		BIC					
		420073	Agricultural Communications 1 credit	01.0802	Y				Y	AG		BIC					
		420074	Agricultural Communications 1/2 credit	01.0802	Y				Y	AG		BIC					
		420075	Agribusiness Management 1 credit	01.0199	Y				Y	AG		BIC					

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		420076	Agribusiness Management 1/2 credit	01.0199	Y				Y	AG		BIC					
														NOCTI Production Agriculture	P		
Environmental and Natural Resources Systems	Environmental and Natural Resources Systems	420026	Environmental Management	03.0104	Y		Environmental Service/HQ		Y	AG		BIC	Teacher Certification Required	Alabama Water Watch Credential	C		
		420024	Fish and Wildlife Management 1 credit	03.0601	Y			Science/HQ	Y	AG		BIC	Certified Hunter Safety Instructor	Hunter Education Certification	C		
													Teacher Certification Required	Alabama Water Watch Credential	C		
		420025	Fish and Wildlife Management 1/2 credit	03.0601	Y				Y	AG		BIC					
		420020	Forestry 1 credit	03.0501	Y			Science/HQ	Y	AG		BIC					
		420021	Forestry 1/2 credit	03.0501	Y				Y	AG		BIC					
		420023	Forestry Equipment	01.0205	Y				Y	AG		BIC					
		420022	Urban Forestry	03.0508	Y			Science/HQ	Y	AG		BIC		Urban Forestry Technician	C		
		420027	Arboriculture		pilot					AG		BIC					
		420028	Dendrology		pilot					AG		BIC					
		420029	Wildland Firefighting and Controlled Fire		pilot					AG		BIC					
														Tree Surgery (TS) Permit	P		
														NOCTI Forest Products and Processing	P		
														NOCTI Natural Resources Systems	P		

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Environmental and Natural Resources Systems	Aquaculture	420035	Aqua Experience 1 credit	01.0303	Y			Science/HQ	Y	AG		BIC	Teacher Certification Required	Alabama Water Watch Credential	C		
		420036	Aqua Experience 1/2 credit	01.0303	Y				Y	AG		BIC					
		420037	Aquaculture Science	01.0303	Y		Aquascience/HQ		Y	AG		BIC	Teacher Certification Required	Alabama Water Watch Credential	C		
		420038	Aquatic Biology	01.0303	Y			Science/HQ	Y	AG		BIC	Teacher Certification Required	Alabama Water Watch Credential	C		
		410020	Introduction to Fisheries Technology	01.0303	Y			Science/HQ	Y	AG/TE		BIC	Teacher Certification Required	Alabama Water Watch Credential	C		
		410021	Advanced Fisheries Technology	01.0303	Y			Science/HQ	Y	AG/TE		BIC					
	Middle School	420004	Introduction to Agriscience (35 instructional-hour course) Grade 7		Y				Y	AG		BIC					
		420005	Introduction to Agriscience (70 instructional-hour course) Grade 7		Y				Y	AG		BIC	Instructor Certification	Hazardous Occupations Safety Training in Agriculture	U		
														Alabama Junior Master Gardener	U		
		420006	Introduction to Agriscience (140 instructional-hour course) Grade 7		Y				Y	AG		BIC	Instructor Certification	Hazardous Occupations Safety Training in Agriculture	U		
														Alabama Junior Master Gardener	U		
		420007	Agriscience Exploration (70 instructional-hour course) Grade 8		Y				Y	AG		BIC	Instructor Certification	Hazardous Occupations Safety Training in Agriculture	U		
														Alabama Junior Master Gardener	U		
		420008	Agriscience Exploration (140 instructional-hour course) Grade 8		Y				Y	AG		BIC	Instructor Certification	Hazardous Occupations Safety Training in Agriculture	U		
														Alabama Junior Master Gardener	U		