FY 2012 CTE Workforce Development Matrix

Career Field	Subject Name	Subject Code	Curriculum Code/Min-Max Course Hours	Min. CTE Program Hours	WFD Type[1]	Non-Trad[2]	CTSO	Notes
Agricultural and Environmental Systems	Environmental and Agricultural Science	010001	VN/120; VT/120; V3/60	450	CC	F	FFA	
Agricultural and Environmental Systems	Agriculture, Food and Natural Resources	010105	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Communications and Leadership	010110	VT/120-280, V3/60	450	PC		FFA	
Agricultural and Environmental Systems	Business Management for Agriculture and Environmental Systems	010115	VT/120-280, V3/60	450	PC		FFA	
Agricultural and Environmental Systems	Structural Engineering	010120	VT/120-280, V3/60	450	PC		FFA	
Agricultural and Environmental Systems	Animal Bioscience	010150	VN/120; VT/120	450	PC		FFA	
Agricultural and Environmental Systems	Plant and Horticultural Science	010155	VN/120; VT/120	450	PC		FFA	
Agricultural and Environmental Systems	Agricultural and Environmental Systems Capstone	010190	VT/120-280, VP/240, V3/120	450	PC		FFA	
Agricultural and Environmental Systems	Agricultural and Industrial Equipment	010201	VN/120; V3/60, VT/120	450	PC	F	FFA	
Agricultural and Environmental Systems	Agricultural and Industrial Power	010210	VN/120; V3/60, VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Electronic and Electrical Systems	010215	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Engines and Fuel Systems	010220	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Hydraulics and Pneumatics	010225	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Power Trains	010230	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Outdoor Power Technology	010235	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Power Sports	010240	VT/120-280, V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Agribusiness and Production Systems	010301	VN/120;VC/240; V3/120; VT/120; VP/240	450	PC	F	FFA	
Agricultural and Environmental Systems	Horticulture	010601	VN/120; VT/120; V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Greenhouse and Nursery Management	010610	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Landscape Systems Management	010615	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Agronomic Systems	010620	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Floral Design and Marketing	010625	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Landscape Design and Build	010630	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Turf Science and Management	010635	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Natural Resource Management	010701	VN/120; VT/120; V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Natural Resources	010710	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Energy Systems Management	010715	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Environmental Science for Agriculture and Natural Resources	010720	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Environmental Systems Management	010725	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Forestry and Woodland Ecosystems	010730	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Park and Recreational Management	010735	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Urban Forestry	010740	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Wildlife and Fisheries	010745	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Animal Science and Management	010901	VN/120; VT/120; V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Animal Science and Technology	010910	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Animal Nutrition, Health and Reproduction	010915	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Livestock Science	010920	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Small Animal Science	010925	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Veterinary Science	010930	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Equine Science and Management	010935	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Zoo and Aquarium	010940	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Food Science and Technology	011001	VN/120; VT/120; V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Science and Technology of Food	011010	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Food Marketing and Research	011015	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Meat Science and Technology	011020	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Microbial Food Science and Safety	011025	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Applications of Food Science and Technology	011030	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Biotechnology for Food, Plant and Animal Sciences	012000	VN/120; VT/120; V3/60	450	PC		FFA	
Agricultural and Environmental Systems	Animal and Plant Biotechnology	012010	VT/120-280	450	PC		FFA	
Arts and Communication	Visual Design and Imaging	340005	VN/120; VT/120; V3/60	450	PC		BPA, DECA, SkillsUSA	
Arts and Communication	Principles of Arts and Communications	340010	VN/60; VT/60; V3/60	450	CC		BPA, DECA, SkillsUSA	
Arts and Communication	Media Arts	340015	VN/120; VT/120; V3/60	450	PC		BPA, DECA, SkillsUSA	
Arts and Communication	Performing Arts	340020	VN/120; VT/120; V3/60	450	PC		BPA, DECA, SkillsUSA	
Business and Administrative Services	Introduction to Business and Administrative Services	140050	VN/60; VT/60; V3/60	450	CC	M	BPA	
Business and Administrative Services	Administrative and Professional Support	140300	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	BPA	
Business and Administrative Services	Legal Management and Support	140310	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	BPA	
Business and Administrative Services	Medical Management and Support	140320	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	BPA	
Business and Administrative Services	Business Management	140800	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	BPA	
Construction Technologies	Heavy Equipment Operations (Construction)	171003	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Construction Technologies	170005	VN/60; VT/60; V3/60	450	CC	F	SkillsUSA	
Construction Technologies	Environmental Control Technologies	170100	VN/120; VT/120; V3/60	450	SC		SkillsUSA	
Construction Technologies	Carpentry	171001	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Electrical Trades	171002	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Brick, Block and Cement Masonry	171004	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Interior Design Applications	171005	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Plumbing and Pipefitting	171007	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Building and Property Maintenance	171011	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Building Technology	171017	VN/120; V3/60; VT/120	450	SC	F	SkillsUSA	

Career Field	Subject Name	Subject Code	Curriculum Code/Min-Max Course Hours	Min. CTE Program Hours	WFD Type[1]	Non-Trad[2]	CTSO	Notes
Construction Technologies	Custodial Services	171100	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Construction--Design-Build	171805	VN/120; VT/120; V3/60	450	PC	F	SkillsUSA	
Construction Technologies	Construction--Management	171806	VN/120; VT/120; V3/60	450	PC	F	SkillsUSA	
Construction Technologies	Wood Product Technologies	173601	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Education and Training	Introduction to Education and Training	350001	VT/60; V3/60	450	CC		FEA or FCCLA	
Education and Training	Teaching Professions	350011	VN/120; VT/120; V3/60	450	PC		FEA or FCCLA	
Education and Training	Early Childhood Education	350201	VN/120; VC/210; V3/60; VT/120; VP/210	450	PC		FCCLA	
Engineering and Science Technologies	Engineering Systems	170007	VN/120; VT/120; V3/120	450	CC	F	SkillsUSA	
Engineering and Science Technologies	Power Transmissions	171402	VN/240; VT/240; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Telecommunications	171504	VN/240; VT/240; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Energy Science	171600	VN/240; VT/240; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Engineering Technology	171810	VN/240; VT/240; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Engineering Science (PLTW)	171815	VN/120; VT/120; V3/120	480	SC	F	SkillsUSA	
Engineering and Science Technologies	Computer Integrated Manufacturing (PLTW)	171816	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Civil Engineering and Architecture (PLTW)	171817	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Fuel Cell Technologies (PLTW)	171818	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Materials Joining Technologies (PLTW)	171819	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Biotechnical Engineering (PLTW)	171820	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Computational Science and Engineering (PLTW)	171821	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Aerospace Engineering	171822	VT/120; V3/120	450	SC	F	Skills USA	
Engineering and Science Technologies	Engineering Design and Development (PLTW)	171825	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Biomedical Science	175000	VN/120; VT/120; V3/120	480	SC		SkillsUSA or HOSA	
Finance	Finance Career Field Course	140025	VN/60; VT/60; V3/60	450	CC	M	BPA	
Finance	Accounting	140100	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC		BPA	
Finance	Financial Services	140110	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC		BPA	
Government and Public Administration	Government and Public Administration	360230	VT/60; V3/60	450	CC/PC		N/A	
Health Science	Health Science	070005	VN/60, VT/60, V3/60	450	CC	M	SkillsUSA or HOSA	
Health Science	Dental Assistant	070101	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Dental Laboratory Technology	070103	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Medical Laboratory Technology	070203	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Phlebotomy	070204	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Practical Nursing	070302	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Nurse Assisting	070303	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Surgical Technology	070305	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Home Health	070307	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Exercise Science/Sports and Recreation Healthcare	070410	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA or HOSA	
Health Science	Optometric Occupations	070603	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Medical Assistant	070904	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Community Health Aide	070906	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Pharmacy Technician	070912	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Health Unit Coordinator	070913	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Patient Care Technician	070994	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Clinical Health Care Services	071100	VN/120; VT/120; V3/60	450	PC	M	SkillsUSA or HOSA	
Health Science	Diagnostic Pathway	074820	VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Therapeutic Pathway	074830	VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Health Support Pathway	074840	VT/120; V3/60	450	PC	M	SkillsUSA or HOSA	
Health Science	Biotechnology	074850	VT/120; V3/60	450	SC	F	SkillsUSA or HOSA	
Health Science	Health Information Management Services	074890	VT/120; V3/60	450	PC	M	SkillsUSA or HOSA	
Hospitality and Tourism	Culinary and Food Service Operations	330005	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	F	FCCLA	
Hospitality and Tourism	Lodging	330010	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	F	FCCLA	
Hospitality and Tourism	Introduction to Hospitality and Tourism	330015	VN/60; V3/60; VT/60	450	CC	F	FCCLA	
Hospitality and Tourism	Travel and Tourism	330020	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	FCCLA	
Human Services	Human Services	172600	VN/120; VT/120; V3/60	450	CC	M	SkillsUSA	
Human Services	Barbering	172601	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Human Services	Cosmetology	172602	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA	
Human Services	Family and Community Services	172605	VN/120; VT/120; V3/60	450	PC	M	SkillsUSA	
Human Services	Vocational Job Training Coordinating	990371	VN/450; V3/120;	450	JT		Any CTSO	
Information Technology	Information Technology I	140200	VN/60; V3/60; VT/60	450	CC	F	BPA, SkillsUSA	
Information Technology	Information Support and Services	140210	VN/120; VC/240; V3/60; VT/120; VP/240	450	PC	F	BPA, SkillsUSA	
Information Technology	Network Systems	140220	VN/120; VC/240; V3/60; VT/120; VP/240	450	PC	F	BPA, SkillsUSA	
Information Technology	Programming/Software Development	140230	VN/120; VC/240; V3/60; VT/120; VP/240	450	PC	F	BPA, SkillsUSA	
Information Technology	Interactive Media	140240	VN/120; VC/240; V3/60; VT/120; VP/240	450	PC	F	BPA, SkillsUSA	
Interdisciplinary Courses	Interdisciplinary Career Field Business Concepts	140075	VV3/60	450	IC	M	CTSO most appropriate	
Law and Public Safety	Fire Fighter Training	172801	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Law and Public Safety	Criminal Justice	172802	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Law and Public Safety	Private Security	172808	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Law and Public Safety	Career Paths for the Law Professional	172810	VN/120; VT/120; V3/60	450	PC		SkillsUSA	
Law and Public Safety	Emergency Medical Technician-Secondary	172811	VN/120; VT/120; V3/60	450	SC		SkillsUSA	

FY 2012 CTE Workforce Development Matrix

Career Field	Subject Name	Subject Code	Curriculum Code/Min-Max Course Hours	Min. CTE Program Hours	WFD Type[1]	Non-Trad[2]	CTSO	Notes
Law and Public Safety	Public Safety Core	172812	VN/60, VT/60, V3/60	450	CC	F	SkillsUSA	
Law and Public Safety	Criminal Science Technologies	172815	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Manufacturing Technologies	170006	VN/60, VT/60, V3/60	450	CC	F	SkillsUSA	
Manufacturing Technologies	Automation and Robotics	170370	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Integrated Systems Technology	171012	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Manufacturing Design and Development	171300	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Electronics	171503	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Precision Machining	172302	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Welding and Cutting	172306	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Marketing	Introduction to Marketing	040805	VN/60, VT/60, V3/60	450	CC		DECA	
Marketing	Marketing Management	040810	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	F	DECA	
Marketing	Marketing Communications	040815	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC		DECA	
Marketing	Supply Chain Management	041900	VN/120; V3/60; VT/120	450	PC	F	DECA	
Marketing	Leadership (HSB)	042010	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Wealth Management (HSB)	042015	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Business (HSB)	042020	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Economics (HSB)	042025	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Marketing (HSB)	042030	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Finance (HSB)	042035	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Management (HSB)	042040	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Business Strategies	042045	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Entrepreneurship	044110	VT/120; V3/60	450	PC		BPA, DECA	May only be offered as a V3 when correlated to the same subject code or 044100
Marketing	Introduction to Entrepreneurship	044100	VT/60; V3/60	450	PC		BPA, DECA	May only be offered as a V3 when correlated to the same subject code or 044110 .
Other Workforce Development	Entrepreneurship	990361	V3/60	450	OC		CTSO most appropriate	
Other Workforce Development	Employability Skills	990362	V3/60	450	OC		CTSO most appropriate	
Transportation Systems	Auto Collision Repair	170301	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Auto Technology	170302	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Auto Specialization	170303	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Transportation Systems	170350	VN/60, VT/60, V3/60	450	CC		SkillsUSA	
Transportation Systems	Aviation Occupation	170400	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Aircraft Maintenance	170401	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Ground Operations	170403	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Maritime Occupations	170801	VT/120; V3/60	450	SC		Skills USA	
Transportation Systems	Medium/Heavy Truck Technician	171200	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Power Equipment Technology	173100	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	

[1]**WFD Type Codes:**
CC = Career Field Courses
PC = Pathway Courses
SC = Specialization Courses
IC = Interdisciplinary Courses
OC = Other WFD Courses
JT = Job Training WFD

[2]**Non-Trad** - research is currently taking place to update this Non-Trade information. Information presently reported is from FY11

CTE "12/8" rule -- Each school district shall provide CTE opportunities representing twelve (12) different CTE programs in at least eight (8) career fields
This rule will no longer be listed on the CTE WFD Matrix to avoid confusion due to the number of courses being listed

FY 2012 CTE Workforce Development Matrix

Career Field	Subject Name	Subject Code	Curriculum Code Min-Max Course Hours	Min. CTE Program Hours	WFD Type[1]	Non-Trad[2]	CTSO	Notes
Agricultural and Environmental Systems	Environmental and Agricultural Science	010001	VN/120; VT/120; V3/60	450	~~FC~~/CC	F	FFA	
Agricultural and Environmental Systems	Agriculture, Food and Natural Resources	010105	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Communications and Leadership	010110	VT/120-280, V3/60	450	PC		FFA	
Agricultural and Environmental Systems	Business Management for Agriculture and Environmental Systems	010115	VT/120-280, V3/60	450	PC		FFA	
Agricultural and Environmental Systems	Structural Engineering	010120	VT/120-280, V3/60	450	PC		FFA	
Agricultural and Environmental Systems	Animal Bioscience	010150	VN/120; VT/120; ~~V3/60~~	450	PC		FFA	
Agricultural and Environmental Systems	Plant and Horticultural Science	010155	VN/120; VT/120; ~~V3/60~~	450	PC		FFA	
Agricultural and Environmental Systems	Agricultural and Environmental Systems Capstone	010190	VT/120-280, VP/240, V3/120	450	PC		FFA	
Agricultural and Environmental Systems	Agricultural and Industrial Equipment	010201	VN/120; V3/60, VT/120	450	PC	F	FFA	
Agricultural and Environmental Systems	Agricultural and Industrial Power	010210	VN/120; V3/60, VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Electronic and Electrical Systems	010215	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Engines and Fuel Systems	010220	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Hydraulics and Pneumatics	010225	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Power Trains	010230	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Outdoor Power Technology	010235	VT/120-280	450	PC	F	FFA	
Agricultural and Environmental Systems	Power Sports	010240	VT/120-280, V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Agribusiness and Production Systems	010301	VN/120;VC/240; V3/120; VT/120; VP/240	450	PC	F	FFA	
Agricultural and Environmental Systems	Horticulture	010601	VN/120; VT/120; V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Greenhouse and Nursery Management	010610	VT/120-280; ~~V3/60~~	450	PC		FFA	
Agricultural and Environmental Systems	Landscape Systems Management	010615	VT/120-280; ~~V3/60~~	450	PC		FFA	
Agricultural and Environmental Systems	Agronomic Systems	010620	VT/120-280; ~~V3/60~~	450	PC		FFA	
Agricultural and Environmental Systems	Floral Design and Marketing	010625	VT/120-280; ~~V3/60~~	450	PC		FFA	
Agricultural and Environmental Systems	Landscape Design and Build	010630	VT/120-280; ~~V3/60~~	450	PC		FFA	
Agricultural and Environmental Systems	Turf Science and Management	010635	VT/120-280; ~~V3/60~~	450	PC		FFA	
Agricultural and Environmental Systems	Natural Resource Management	010701	VN/120; VT/120; V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Natural Resources	010710	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Energy Systems Management	010715	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Environmental Science for Agriculture and Natural Resources	010720	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Environmental Systems Management	010725	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Forestry and Woodland Ecosystems	010730	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Park and Recreational Management	010735	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Urban Forestry	010740	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Wildlife and Fisheries	010745	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Animal Science and Management	010901	VN/120; VT/120; V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Animal Science and Technology	010910	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Animal Nutrition, Health and Reproduction	010915	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Livestock Science	010920	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Small Animal Science	010925	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Veterinary Science	010930	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Equine Science and Management	010935	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Zoo and Aquarium	010940	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Food Science and Technology	011001	VN/120; VT/120; V3/60	450	PC	F	FFA	
Agricultural and Environmental Systems	Science and Technology of Food	011010	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Food Marketing and Research	011015	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Meat Science and Technology	011020	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Microbial Food Science and Safety	011025	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Applications of Food Science and Technology	011030	VT/120-280	450	PC		FFA	
Agricultural and Environmental Systems	Biotechnology for Food, Plant and Animal Sciences	012000	VN/120; VT/120; V3/60	450	PC		FFA	
Agricultural and Environmental Systems	Animal and Plant Biotechnology	012010	VT/120-280	450	PC		FFA	
~~Arts and Communication~~	~~Arts and Communication Foundation~~	~~040001~~	~~VN/60, VT/60, V3/60~~	~~450~~	~~FC~~		~~DECA, SkillsUSA~~	~~Course and Subject Code will be unavailable in FY12. Transition to CC in FY11.~~
Arts and Communication	Visual Design and Imaging	340005	VN/120; VT/120; V3/60	450	PC		BPA, DECA, SkillsUSA	
Arts and Communication	Principles of Arts and Communications	340010	VN/60; VT/60; V3/60	450	CC		BPA, DECA, SkillsUSA	
Arts and Communication	Media Arts	340015	VN/120; VT/120; V3/60	450	PC		BPA, DECA, SkillsUSA	
Arts and Communication	Performing Arts	340020	VN/120; VT/120; V3/60	450	PC		BPA, DECA, SkillsUSA	

FY 2012 CTE Workforce Development Matrix

Career Field	Subject Name	Subject Code	Curriculum Code Min-Max Course Hours	Min. CTE Program Hours	WFD Type[1]	Non-Trad[2]	CTSO	Notes
~~Business and Administrative Services~~	~~Business and Management Foundation~~	~~140001~~	~~VN/60; VT/60; V3/60~~	~~450~~	~~FC~~		~~BPA, DECA~~	~~Course and Subject Code will be unavailable in FY12. Transition to CC in FY11.~~
Business and Administrative Services	Introduction to Business and Administrative Services	140050	VN/60; VT/60; V3/60	450	CC	M	BPA	
Business and Administrative Services	Administrative and Professional Support	140300	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	BPA	
Business and Administrative Services	Legal Management and Support	140310	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	BPA	
Business and Administrative Services	Medical Management and Support	140320	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	BPA	
Business and Administrative Services	Business Management	140800	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	BPA	
Construction Technologies	Heavy Equipment Operations (Construction)	171003	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Construction Technologies	170005	VN/60; VT/60; V3/60	450	CC	F	SkillsUSA	
Construction Technologies	Environmental Control Technologies	170100	VN/120; VT/120; V3/60	450	SC		SkillsUSA	
Construction Technologies	Carpentry	171001	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Electrical Trades	171002	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Brick, Block and Cement Masonry	171004	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Interior Design Applications	171005	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Plumbing and Pipefitting	171007	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Building and Property Maintenance	171011	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Building Technology	171017	VN/120; V3/60; VT/120	450	SC	F	SkillsUSA	
Construction Technologies	Custodial Services	171100	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Construction Technologies	Construction--Design-Build	171805	VN/120; VT/120; V3/60	450	PC	F	SkillsUSA	
Construction Technologies	Construction--Management	171806	VN/120; VT/120; V3/60	450	PC	F	SkillsUSA	
Construction Technologies	Wood Product Technologies	173601	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Education and Training	Introduction to Education and Training	350001	VT/60; V3/60	450	CC		FEA or FCCLA	
Education and Training	Teaching Professions	350011	VN/120; VT/120; V3/60	450	PC		FEA or FCCLA	
Education and Training	Early Childhood Education	350201	VN/120; VC/210; V3/60; VT/120; VP/210	450	PC		~~FEA or~~ FCCLA	
Engineering and Science Technologies	Engineering Systems	170007	VN/120; VT/120; V3/120	450	CC	F	SkillsUSA	
Engineering and Science Technologies	Power Transmissions	171402	VN/240; VT/240; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Telecommunications	171504	VN/240; VT/240; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Energy Science	171600	VN/240; VT/240; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Engineering Technology	171810	VN/240; VT/240; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Engineering Science (PLTW)	171815	VN/120; VT/120; V3/120	480	SC	F	SkillsUSA	
Engineering and Science Technologies	Computer Integrated Manufacturing (PLTW)	171816	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Civil Engineering and Architecture (PLTW)	171817	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Fuel Cell Technologies (PLTW)	171818	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Materials Joining Technologies (PLTW)	171819	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Biotechnical Engineering (PLTW)	171820	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Computational Science and Engineering (PLTW)	171821	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Aerospace Engineering	171822	VT/120; V3/120	450	SC	F	Skills USA	
Engineering and Science Technologies	Engineering Design and Development (PLTW)	171825	VN/120; VT/120; V3/120	450	SC	F	SkillsUSA	
Engineering and Science Technologies	Biomedical Science	175000	VN/120; VT/120; V3/~~60~~ 120	480	SC		SkillsUSA or HOSA	
Finance	Finance Career Field Course	140025	VN/60; VT/60; V3/60	450	CC	M	BPA	
Finance	Accounting	140100	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC		BPA	
Finance	Financial Services	140110	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC		BPA	
Government and Public Administration	Government and Public Administration	360230	VT/60; V3/60	450	CC/PC		N/A	
Health Science	Health Science	070005	VN/60, VT/60, V3/60	450	CC	M	SkillsUSA or HOSA	
Health Science	Dental Assistant	070101	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Dental Laboratory Technology	070103	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Medical Laboratory Technology	070203	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Phlebotomy	070204	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Practical Nursing	070302	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Nurse Assisting	070303	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Surgical Technology	070305	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Home Health	070307	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Exercise Science/Sports and Recreation Healthcare	070410	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA or HOSA	
Health Science	Optometric Occupations	070603	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Medical Assistant	070904	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Community Health Aide	070906	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Pharmacy Technician	070912	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Health Unit Coordinator	070913	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	

FY 2012 CTE Workforce Development Matrix

Career Field	Subject Name	Subject Code	Curriculum Code Min-Max Course Hours	Min. CTE Program Hours	WFD Type[1]	Non-Trad[2]	CTSO	Notes
Health Science	Patient Care Technician	070994	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Clinical Health Care Services	071100	VN/120; VT/120; V3/60	450	PC	M	SkillsUSA or HOSA	
Health Science	Diagnostic Pathway	074820	VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Therapeutic Pathway	074830	VT/120; V3/60	450	SC	M	SkillsUSA or HOSA	
Health Science	Health Support Pathway	074840	VT/120; V3/60	450	PC	M	SkillsUSA or HOSA	
Health Science	Biotechnology	074850	VT/120; V3/60	450	SC	F	SkillsUSA or HOSA	
Health Science	Health Information Management Services	074890	VT/120; V3/60	450	PC	M	SkillsUSA or HOSA	
Hospitality and Tourism	Culinary and Food Service Operations	330005	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	F	FCCLA	
Hospitality and Tourism	Lodging	330010	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	F	FCCLA~~, DECA~~	
Hospitality and Tourism	Introduction to Hospitality and Tourism	330015	VN/60; V3/60; VT/60	450	CC	F	FCCLA~~, DECA~~	
Hospitality and Tourism	Travel and Tourism	330020	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	M	FCCLA~~, DECA~~	
Human Services	Human Services	172600	VN/120; VT/120; V3/60	450	CC	M	SkillsUSA	
Human Services	Barbering	172601	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Human Services	Cosmetology	172602	VN/120; VT/120; V3/60	450	SC	M	SkillsUSA	
Human Services	Family and Community Services	172605	VN/120; VT/120; V3/60	450	PC	M	SkillsUSA	
Human Services	Vocational Job Training Coordinating	990371	VN/450; V3/120;	450	JT		Any CTSO	
Information Technology	Information Technology I	140200	VN/60; V3/60; VT/60	450	CC	F	BPA, SkillsUSA	
Information Technology	Information Support and Services	140210	VN/120; VC/240; V3/60; VT/120; VP/240	450	PC	F	BPA, SkillsUSA	
Information Technology	Network Systems	140220	VN/120; VC/240; V3/60; VT/120; VP/240	450	PC	F	BPA, SkillsUSA	
Information Technology	Programming/Software Development	140230	VN/120; VC/240; V3/60; VT/120; VP/240	450	PC	F	BPA, SkillsUSA	
Information Technology	Interactive Media	140240	VN/120; VC/240; V3/60; VT/120; VP/240	450	PC	F	BPA, SkillsUSA	
Interdisciplinary Courses	Interdisciplinary Career Field Business Concepts	140075	VV3/60	450	IC	M	CTSO most appropriate	
Law and Public Safety	Fire Fighter Training	172801	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Law and Public Safety	Criminal Justice	172802	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Law and Public Safety	Private Security	172808	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Law and Public Safety	Career Paths for the Law Professional	172810	VN/120; VT/120; V3/60	450	PC		SkillsUSA	
Law and Public Safety	Emergency Medical Technician-Secondary	172811	VN/120; VT/120; V3/60	450	SC		SkillsUSA	
Law and Public Safety	Public Safety Core	172812	VN/60, VT/60, V3/60	450	CC	F	SkillsUSA	
Law and Public Safety	Criminal Science Technologies	172815	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Manufacturing Technologies	170006	VN/60, VT/60, V3/60	450	CC	F	SkillsUSA	
~~Manufacturing Technologies~~	~~Manufacturing Operations~~	~~170360~~	~~VN/120, VT/120, V3/60~~	~~450~~	~~PC~~	~~F~~	~~Skills USA~~	
Manufacturing Technologies	Automation and Robotics	170370	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Integrated Systems Technology	171012	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Manufacturing Design and Development	171300	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Electronics	171503	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Manufacturing Technologies	Precision Machining	172302	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
~~Manufacturing Technologies~~	~~Manufacturing Occupations~~	~~172303~~	~~VN/120; VT/120; V3/60~~	~~450~~	~~SC~~	~~F~~	~~SkillsUSA~~	
Manufacturing Technologies	Welding and Cutting	172306	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Marketing	Introduction to Marketing	040805	VN/60, VT/60, V3/60	450	CC		DECA	
Marketing	Marketing Management	040810	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC	F	DECA	
Marketing	Marketing Communications	040815	VN/120; VC/300; V3/60; VT/120; VP/300	450	PC		DECA	
Marketing	~~Acquisition and Logistics~~ Supply Chain Management	041900	VN/120; ~~VC/300~~; V3/60; VT/120; ~~VP/300~~	450	PC	F	DECA	
Marketing	Leadership (HSB)	042010	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Wealth Management (HSB)	042015	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Business (HSB)	042020	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Economics (HSB)	042025	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Marketing (HSB)	042030	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Finance (HSB)	042035	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Principles of Management (HSB)	042040	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Business Strategies	042045	VT/60; V3/60	450	PC		DECA, BPA	
Marketing	Entrepreneurship	044110	VT/120; V3/60	450	PC		BPA, DECA	May only be offered as a V3 when correlated to the same subject code or 044100
Marketing	Introduction to Entrepreneurship	044100	VT/60; V3/60	450	PC		BPA, DECA	May only be offered as a V3 when correlated to the same subject code or 044110 .
Other Workforce Development	Entrepreneurship	990361	V3/60	450	OC		CTSO most appropriate	
Other Workforce Development	Employability Skills	990362	V3/60	450	OC		CTSO most appropriate	
Transportation Systems	Auto Collision Repair	170301	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Auto Technology	170302	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	

FY 2012 CTE Workforce Development Matrix

Career Field	Subject Name	Subject Code	Curriculum Code Min-Max Course Hours	Min. CTE Program Hours	WFD Type[1]	Non-Trad[2]	CTSO	Notes
Transportation Systems	Auto Specialization	170303	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Transportation Systems	170350	VN/60, VT/60, V3/60	450	CC		SkillsUSA	
Transportation Systems	Aviation Occupation	170400	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Aircraft Maintenance	170401	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Ground Operations	170403	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Maritime Occupations	170801	VT/120; V3/60	450	SC		Skills USA	
Transportation Systems	Medium/Heavy Truck Technician	171200	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	
Transportation Systems	Power Equipment Technology	173100	VN/120; VT/120; V3/60	450	SC	F	SkillsUSA	

[1]**WFD Type Codes:**

~~FC = Foundations Courses~~

CC = Career Field Courses

PC = Pathway Courses

SC = Specialization Courses

IC = Interdisciplinary Courses

OC = Other WFD Courses

JT = Job Training WFD

[2]**Non-Trad** - research is currently taking place to update this Non-Trade information. Information presently reported is from FY11

CTE "12/8" rule -- Each school district shall provide CTE opportunities representing twelve (12) different CTE programs in at least eight (8) career fields. This rule will no longer be listed on the CTE WFD Matrix to avoid confusion due to the number of courses being listed

ADD – red font, yellow highlight

DELETE – black font, ~~strikeouts,~~ yellow highlight

~~**FC and CC** courses may be reported as a V3 attached to a PC, or SC anchor course. However, No V3s can be attached to a FC or CC anchor course~~.