

2023-2024 DD2 Career and Technology Education Program/Course Sequences

Courses marked with an * (asterisk) in "*Course to Complete Program*" are required for students to complete the program. Number of courses needed is based on "Units Needed to Complete".
 Additional courses in "*Course to Complete Program*" are considered Associated Electives and are NOT required to complete pathway.
 Work-Based Credit Courses will not count as a third unit towards completer status in any of the three-unit completer pathways.

Agriculture, Food, and Natural Resources

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program* (Select 2)	Certifications
ARHS	030101	Environmental and Natural Resource Management	4	5624 - Agricultural Science and Technology	5621 - Equipment Operation and Maintenance*	OSHA 10
				5626 - Environmental and Natural Resources Management	5690 - Agriculture, Food, and Natural Resources Internship, work-based credit*	
ARHS	011101	Plant and Animal Systems	4	5624 - Agricultural Science and Technology	5621 - Equipment Operation and Maintenance*	OSHA 10
				5647 - Farm Animal Production	5600 - Agribusiness and Marketing* 5690 - Agriculture, Food, and Natural Resources Internship, work-based credit*	
ARHS	010601	Horticulture	4	5624 - Agricultural Science and Technology	5600 - Agribusiness and Marketing*	OSHA 10
				5650 - Introduction to Horticulture	5261 - Equipment Operation and Maintenance* 5690 - Agriculture, Food, and Natural Resources Internship, work-based credit*	
DCCTC	030101	Environmental and Natural Resources	4	5628 - Environmental and Natural Resources 1* (2 credits)	5604 - Agricultural Mechanics and Technology for the Workplace 1 and 2 (2 Credits)	OSHA 10
				5629 - Environmental and Natural Resources 2* (2 credits)	5621 - Equipment Operation and Maintenance (2 Credits) 5690 - Agriculture, Food, and Natural Resources Internship, work-based credit	

Architecture and Construction Cluster

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
DCCTC	460000	Building Construction	4	6060 - Building and Construction Cluster 1* (2 credits)	6690 - Architecture and Construction Internship, work-based credit	OSHA 10
				6061 - Building and Construction Cluster 2* (2 credits)		NCCER
DCCTC	460301	Electricity	4	6287 - Electricity 1* (2 credits)	6289 - Electricity 3 (2 credits)	OSHA 10
				6288 - Electricity 2* (2 credits)	6290 - Electricity 4 (2 credits)	NCCER
					6690 - Architecture and Construction Internship, work-based credit	CPR

Arts, Audio-Video Technology, and Communication

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program* (1 or 2 depending on Program)	Certifications
SHS	100299	Media Technology	4	6124 - Media Technology 1	6126 - Media Technology 3*	N/A
				6125 - Media Technology 2	6127 - Media Technology 4* 5290 - Arts, Audio-Video Technology and Communications, work-based learning	
DCCTC	151301	Architecture/Mechanical Design	4	6170 - Architectural Design 1* (2 credits)	5290 - Arts, Audio-Video Technology and Communications, work-based learning	OSHA 10, ACU
			4	6171 - Architectural Design 2* (2 credits)	5290 - Arts, Audio-Video Technology and Communications, work-based learning	
				6172 - Mechanical Design 1* (2 credits)		
				6173 - Mechanical Design 2* (2 credits)		

Business Management and Administration

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (Select at least 1)	Certifications
FDHS	521206	Business Information Management	3	5340 - Image Editing	5001 - Accounting 1*	Microsoft Office 2016
				5176 - Digital Publication Design	5400 - Entrepreneurship*	Ever Fi - Digital Literacy and Wellness
					5023 - Fundamentals of Computing*	Ever Fi - Digital Literacy
					5031 - Fundamentals of Web Page Design*	Entrepreneurship and Small Business
					5033 - Advanced Web Page Design* 5490 - Business Management and Administration Internship, work-based credit	
ARHS, FDHS, SHS	520201	General Management	3	5001 - Accounting 1	5005 - Accounting 2 (ARHS Only)*	Microsoft Office 2016
				5400 - Entrepreneurship	5273 - Business Finance (ARHS and SHS)*	Ever Fi - Digital Literacy and Wellness
					5031 - Fundamentals of Web Page Design	Entrepreneurship and Small Business
					5421 - Marketing (ARHS and FDHS)* 5490 - Business Management and Administration Internship, work-based credit	

Education and Training

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
ARHS, FDHS, SHS	130101	Introduction to Teaching	4	5703 - Introduction to Teaching 1	5705 - Teacher Cadet CTE	
				5704 - Introduction to Teaching 2	5800 - Child Development 1	
					5801 - Child Development 2	
					6814 - Dual Enrollment - Learners and Diversity	
					6818 - Dual Enrollment - Classroom Inquiries with Technology - EDU 201 or EDU 204	
					8817 - Dual Enrollment - (Teacher Cadet 2) - Educational Psychology (CTE Completers Only)	
					5031 - Fundamentals of Web Page Design	
					5400 - Entrepreneurship 6390 - Education and Training Internship, work-based credit	

Finance

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
ARHS	520301	Accounting	3	5001 - Accounting 1	5273 - Business Finance*	Microsoft Office 2016
				5005 - Accounting 2	5400 - Entrepreneurship*	Ever Fi - Digital Literacy and Wellness
					6190 - Finance Internship, work-based credit	Ever Fi - Digital Literacy
ARHS, FDHS, SHS	520804	Business Finance	3	5001 - Accounting 1	5005 - Accounting 2 (ARHS Only)*	Microsoft Office 2016
				5273 - Business Finance	5400 - Entrepreneurship*	Ever Fi - Digital Literacy and Wellness
					5421 - Marketing (ARHS Only)*	Entrepr. & Small Business
					6190 - Finance Internship, work-based credit	

Government and Public Administration Cluster (ROTC will Join CTE in 2024-2025)

School	CIP Code	Major	Units Needed to Complete	Course to complete program		Certifications
ARHS, FDHS, SHS	280503	National Security (Pending)	N/A	3751 - Junior ROTC 1 3752 - Junior ROTC 2 3753 - Junior ROTC 3 3754 - Junior ROTC 4	3755 - Junior ROTC 5 3756 - Junior ROTC 6 3757 - Junior ROTC 7 3758 - Junior ROTC 8	OSHA, Microburst
There are no Government and Public Administration pathways being offered in DD2 or the Dorchester County Career and Technology Center at this time						

Health Science

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
ARHS, FDHS, SHS	260102	PLTW - Biomedical Sciences	3	5580 - PLTW - Principles of Biomedical Sciences	5582 - PLTW - Medical Interventions*	First Aid/Heart Saver CPR
				5581 - PLTW - Human Body Systems	5583 - PLTW - Biomedical Innovation	Basic Life Support CPR
					5540 - Medical Terminology*	OSHA 10
					5555 - Sports Medicine 1	
					5556 - Sports Medicine 2	
					5590 - Health Science Internship, work-based credit 5591 - Sports Medicine Internship, work-based credit	
ARHS, FDHS, SHS	310505	Sports Medicine	3	5555 - Sports Medicine 1	5557 - Sports Medicine 3*	First Aid/Heart Saver CPR
				5556 - Sports Medicine 2	5540 - Medical Terminology*	Basic Life Support CPR
					5581 - PLTW - Human Body Systems	OSHA 10
					5580 - PLTW - Principles of Biomedical Sciences	
					5590 - Health Science Internship, work-based credit 5591 - Sports Medicine Internship, work-based credit	
DCCTC	510000	Health Science	3	5550 - Health Science 1* (2 credits)	5590 - Health Science Internship, work-based credit	CNA, PCT
				5551 - Health Science 2* (2 credits)		OSHA 10
						Certified Billing and Coding
						First Aid/Heart Saver CPR
						Stop the Bleed Pharmacy Tech

Hospitality and Tourism

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
ARHS, FDHS, SHS	520905	Culinary Arts	3	5720 - Culinary Arts Management 1	5722 - Introduction to Culinary Arts Management*	ServSafe Food Handler, ServSafe Manager
				and	5001 - Accounting 1*	
				5721 - Culinary Arts Management 2	5400 - Entrepreneurship*	
				or	5031 - Fundamentals of Web Page Design	
				5723 - Baking and Pastry (2 Credits)	5020 - Integrated Business Applications 1 (ARHS only) 5190 - Hospitality and Tourism Internship, work-based credit	
DCCTC	520905	Culinary Arts Management	3	5720 - Culinary Arts 1* (2 credits)	5190 - Hospitality and Tourism Internship, work-based credit	OSHA 10
				5721 - Culinary Arts 2* (2 credits)		ServSafe Food Handler
				or		Prostart
				5723 - Baking and Pastry * (2 credits)		

Human Services

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
DCCTC	120401	Cosmetology	8 Units and 1540 hours	6150 - Cosmetology* (2 credits)	6152 - Cosmetology 3* (2 credits)	State Cosmetology License
				6151 - Cosmetology 2* (2 credits)	6153 - Cosmetology 4* (2 credits)	OSHA 10
					5790 - Human Services, work-based credit	
DCCTC	120410	Nail Technology	3 Units and 360 Hours	6154 - Nail Technology 1* (2 credits)	5790 - Human Services, work-based credit	State Nail Technician License
				6155 - Nail Technology 2* (2 credits)		OSHA 10

Information Technology

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
ARHS, FDHS	110801	Web and Digital Communications	3	5031 - Fundamentals of Web Page Design	5422 - Digital Media Marketing* (FDHS Only)	Entrepreneurship and Small Business
				5033 - Advanced Web Design and Development	5023 - Fundamentals of Computing*	Ever Fi Digital Literacy and Wellness
					5340 - Image Editing* (FDHS Only)	
					5350 - Foundations of Animation*	
					4771CTAW - AP Computer Science A (FDHS)	
					4775CTAW - AP Computer Science Principals (ARHS, FDHS)	
					5176 - Digital Publication Design	
					5400 - Entrepreneurship	
	5390 - Information Technology Internship, work-based credit					
ECPI (ARHS, FDHS, SHS)	110901	Networking Systems	4	CIS 150 - Introduction to Networking (Equivalent to 6759 - Networking 1)	CIS 106 - Introduction to Operating Systems (Equivalent to 6726 - Computer Operating Systems) *	Network Protocols and Services
				CIS 225 - Network Protocols and Services (Equivalent to 6760 - Networking 2)	CIS 126 - Introduction to Programming (Equivalent to 6768 - Computer Programming 1)	Computer Configuration II
					CIS 206 - UNIX Administration (Equivalent to 5323 - Advanced Computer Operating Systems)	Principles of Cybersecurity
					CIS 212 - Network Security Concepts (Equivalent to 6762 - Cyber Security Fundamentals) *	Introduction to Cloud Solutions
					EET 250 - Computer Configuration 1 (Equivalent to - 6752 Computer Repair and Service)	
					EET 251 - Computer Configuration II (Equivalent to 6753 - Advanced Computer Repair and Service)	
					CIS 123 - Introduction to Scripting (Equivalent to 83F0 - Computer Programming with Python)	
					4771CTAW - AP Computer Science A (FDHS)*	
					4775CTAW - AP Computer Science Principals (ARHS, FDHS)*	
					5023 - Fundamentals of Computing*	
	5400 - Entrepreneurship*					
	5031 - Fundamentals of Web Page Design*					

Law, Public Safety, Corrections, and Security Cluster

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
DCCTC	430203	Emergency and Fire Management Services	3	6514 - Fire Fighter 1* (2 credits)	6590 - Law, Public Safety, Corrections, and Security work-based learning	OSHA 10
				6515 - Fire Fighter 2* (2 credits)		
DCCTC	430107	Law Enforcement Services	3	6510 - Law Enforcement Services 1* (2 credits)	6590 - Law, Public Safety, Corrections, and Security work-based learning	OSHA 10
				6511 - Law Enforcement 2* (credits)		

Manufacturing

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
SHS	150404	Mechatronics Integrated Technologies	4	6210 - Electrical Components/Industrial Safety	6212 - Elecro Pneumatics and Hydraulics	OSHA 10
				6211 - Mechanical Components Electric Drives/ Hand & Power Tool Op.	6213 - Digital Fudamentals and Programmable Controllers	HAAS CNC Mill Operator
					6490 - Manufacturing Internship, work-based credit	HAAS CNC Lathe Operator
DCCTC	480503	Machine Technology	4	6230 - Machine Tool Technology 1* (2 credits)	6490 - Manufacturing Internship, work-based credit	NIMS (Nation Institute for Metal Working Skills)
				6231 - Machine Tool Technology 2* (2 credits)		OSHA 10
DCCTC	480508	Welding Technology	4	6340 - Welding Technology 1* (2 credits)	6342 - Welding Technology 3 (2 credits)	AWS (American Welding Society)
				6341 - Welding Technology 2* (2 credits)	6343 - Welding Technology 4 (2 credits)	OSHA 10
					6490 - Manufacturing Internship, work-based credit	NCCER

Marketing

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
FDHS	90903	Marketing Communications	3	5421 - Marketing	5400 - Entrepreneurship*	Adobe Photoshop Cert.
				5422 - Digital Media Marketing	5031 - Fundamentals of Web Page Design*	Entrepreneursip and Small Business
					5176 - Digital Publication Design*	
					5340 - Image Editing*	
					5001 - Accounting 1*	
					5033 - Advanced Web Page Design and Development	
ARHS	521401	Marketing Management	3	5421 - Marketing	5001 - Accounting 1*	Entrepreneursip and Small Business
				5426 - Sports and Entertainment Management	5005 - Accounting 2	Microsoft Office 2016
					5273 - Business Finance*	
					5400 - Entrepreneurship*	
					5091 - Marketing Internship, work-based learning	

Science, Technology, Engineering, and Mathematics

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
ARHS, FDHS, SHS	140101	Pre-Engineering PLTW	4	6050 - PLTW - Principles of Engineering	6056 - PLTW - Aerospace Engineering	N/A
				6051 - PLTW - Introduction to Engineering Design (AR only)	6058 - PLTW - Civil Engineering and Architecture	
				or	6090 - Science, Technology, Engineering, and Mathematics Internship, work-based learning	
				6051 - PLTW - Introduction to Engineering Design (AR only)		
				6144 - PLTW - Engineering Essentials		
				or		
				6144 - PLTW - Engineering Essentials		
6050 - PLTW - Principles of Engineering						

Transportation, Distribution, and Logistics

School	CIP Code	Major	Units Needed to Complete	Required Concentrator Courses (2)	Course to complete program (1 or 2 depending on Program)	Certifications
DCCTC	470603	Automotive Collision Repair Technology	4	6020 - Automotive Collision Repair 1* (2 credits)	6022 - Automotive Collision Repair 3 (2 credits)	ASE
				6021 - Automotive Collision Repair 2* (2 credits)	6023 - Automotive Collision Repair 4 (2 credits)	OSHA 10
					6790 - Transportation, Distribution, and Logistics work-based learning	TIA
DCCTC	470604	Automotive Technology	4	6030 - Automotive Technology 1* (2 credits)	6032 - Automotive Technology 3 (2 credits)	ASE
				6031 - Automotive Technology 2* (2 credits)	6033 - Automotive Technology 4 (2 credits)	OSHA 10
					6790 - Transportation, Distribution, and Logistics work-based learning	TIA
DCCTC	470605	Diesel Engine Technology	4	6310 - Diesel Engine Technology 1* (2 credits)	6790 - Transportation, Distribution, and Logistics work-based learning	ASE
				6311 - Diesel Engine Technology 2* (2 credits)		OSHA 10
						TIA
DCCTC	520203	Logistics and Supply Chain Management <i>(Not in CTE State Guide)</i>	4	68P0 - Logistics and Distribution	68P3 - Work-based Learning	N/A
				68P1 - Warehouse Distribution		
				68P2 - Warehouse Inventory		