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 5626 - Environmental and Natural Resources Management	5621 - Equipment Operation and Maintenance* 5690 - Agriculture, Food, and Natural Resources Internship, work-based credit*	OSHA 10
ARHS	011101	Plant and Animal Systems	4	5624 - Agricultural Science and Technology 5647 - Farm Animal Production	5621 - Equipment Operation and Maintenance* 5690 - Agriculture, Food, and Natural Resources Internship, work-based credit*	OSHA 10
ARHS	010601	Horticulture	4	5624 - Agricultural Science and Technology 5650 - Introduction to Horticulture	5600 - Agribusiness and Marketing* 5261 - Equipment Operation and Maintenance* 5690 - Agriculture, Food, and Natural Resources Internship, work-based credit*	OSHA 10
DCCTC	030101	Environmental and Natural Resources	4	5652 - Horticulture for the Workplace 1* (2 credits) 5653 - Horticulture for the Workplace 2* (2 credits)	5604 & 5605 - Agricultural Mechanics and Technology for the Workplace 1 and 2 (2 Credits) 5621 - Equipment Operation and Maintenance (2 Credits) 5690 - Agriculture, Food, and Natural Resources Internship, work-based credit	OSHA 10

Architecture and Construction

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) 6061 - Building and Construction Cluster 2* (2 credits)	6690 - Architecture and Construction Internship, work-based credit	OSHA 10 NCCER
DCCTC	460301	Electricity	4	6287 - Electricity 1* (2 credits) 6288 - Electricity 2* (2 credits)	6289 - Electricity 3 (2 credits) 6290 - Electricity 4 (2 credits) 6690 - Architecture and Construction Internship, work-based credit	OSHA 10 NCCER 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 6125 - Media Technology 2	6126 - Media Technology 3* 6127 - Media Technology 4* 5290 - Arts, Audio-Video Technology and Communications, work-based learning	N/A
DCCTC	151301	Architecture Design	4	6170 - Architectural Design 1* (2 credits) 6171 - Architectural Design 2* (2 credits)	5290 - Arts, Audio-Video Technology and Communications, work-based learning	OSHA 10, ACU
DCCTC	151301	Mechanical Design	4	6172 - Mechanical Design 1* (2 credits) 6173 - Mechanical Design 2* (2 credits)	5290 - Arts, Audio-Video Technology and Communications, work-based learning	OSHA 10, ACU

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 5176 - Digital Publication Design	5001 - Accounting 1* 5400 - Entrepreneurship* 5023 - Fundamentals of Computing* 5031 - Fundamentals of Web Page Design* 5033 - Advanced Web Page Design* 5490 - Business Management and Adminstration Internship, work-based credit	Microsoft Office 2016 Ever Fi - Digital Literacy and Wellness Ever Fi - Digital Literacy Entreprenuership and Small Business
ARHS, FDHS, SHS	520201	General Management	3	5001 - Accounting 1 5400 - Entrepreneurship	5005 - Accounting 2 (ARHS Only)* 5273 - Business Finance (ARHS and SHS)* 5020 - Integrated Business Applications 1 (ARHS only)* 5031 - Fundamentals of Web Page Design 5421 - Marketing (ARHS and FDHS)* 5490 - Business Management and Adminstration Internship, work-based credit	Microsoft Office 2016 Ever Fi - Digital Literacy and Wellness Ever Fi - Digital Literacy Entreprenuership and Small Business

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
There are no Education and Training pathways being offered in DD2 or the Dorchester County Career and Technology Center at this time						N/A

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 5005 - Accounting 2	5273 - Business Finance* 5400 - Entrepreneurship* 6190 - Finance Internship, work-based credit	Microsoft Office 2016 Ever Fi - Digital Literacy and Wellness Ever Fi - Digital Literacy Entreprenuership ad Small Business
ARHS, SHS	520804	Business Finance	3	5001 - Accounting 1 5273 - Business Finance	5005 - Accounting 2 (ARHS Only)* 5400 - Entrepreneurship* 5020 - Integrated Business Applications 1 (ARHS only)* 5421 - Marketing (ARHS Only)* 6190 - Finance Internship, work-based credit	Microsoft Office 2016 Ever Fi - Digital Literacy and Wellness Ever Fi - Digital Literacy Entreprenuership ad Small Business

Government and Public Adminstration

School	CIP Code	Major	Units Needed to Complete	Course to complete program		Certifications
ARHS, FDHS, SHS	280503	National Security	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
Government and Public Administration - National Security Pathway - Will be offered during the 2023 - 2024 School Year						

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 Terminoloy*	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 Management	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)	Entreprenuership and Small Business
				5033 - Advanced Web Design and Development	5023 - Fundamentals of Computing*	Ever Fi Digital Literacy and Wellness
					5340 - Image Editing* (FDHS Only)	
					5176 - Digital Publication Design	
					4771CTAW - AP Computer Science A (FDHS)	
					4775CTAW - AP Computer Science Principals (ARHS, FDHS)	
					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 Secruity 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

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*	Entreprenuership and Small Business
					5176 - Digital Publication Design*	
					5001 - Accounting 1*	
					5033 - Advanced Web Page Design and Development	
					5091 - Marketing Internship, work-based learning	
ARHS, FDHS	521401	Marketing Management	3	5421 - Marketing	5001 - Accounting 1*	Entreprenuership and Small Business
				5426 - Sports and Entertainment Management	5005 - Accounting 2	Microsoft Office 2016
					5273 - Business Finance*	
					5400 - Entrepreneurship*	
					5020 - Integrated Business Applications 1	
					5091 - Marketing Internship, work-based learning	

Science, Technology, Engineering, and Mathmatics

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	6052 - PLTW - Digital Electronics	
				6051 - PLTW - Introduction to Engineering Design (AR only)	6890 - Science, Technology, Engineering, and Mathematics Internship, work-based learning	
				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 Repairt 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 Repart 4 (2 credits)	OSHA 10
					6790 - Transportation, Distributution, 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, Distributution, and Logistics work-based learning	TIA
DCCTC	470605	Diesel Engine Technology	4	6310 - Diesel Engine Technology 1* (2 credits)	6790 - Transportation, Distributution, and Logistics work-based learning	ASE
				6311 - Diesel Engine Technology 2* (2 credits)		OSHA 10
						TIA
DCCTC	520203	Global Logistics	4	68P0 - Logistics and Distribution	68P3 - Work-based Learning	N/A
				68P1 - Warehouse Distribution		
				68P2 - Warehouse Inventory		

Education and Training (Potential Pathway Under Review)						
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 (Equivalent to **EDU 201 - Dual Enrollment Classroom Inquiries with Technology)**	Currently Have - 3735 - Teacher Cadet 1 AP (CERRA)- Experiencing Education **(Needs to be 5705 - Dual Enrollment Teacher Cadet - Experiencing Education {CTE Completers Only})**	Praxis Core
				5704 - Introduction to Teaching 2 (Equivalent to **EDU 241 - Dual Enrollment Learners and Diversity)**	Currently Have - 8817 - DE Educational Psychology (Teacher Cadet 2) - EDUC 202 **(Needs to be 6391 - Dual Enrollment Teacher Cadet - Educational Psychology {CTE Completers Only})**	Education Fundamentals Assessment/Certification
					Note: Teacher Cadet Courses have both CTE and Academic course codes. The content is the same for CTE ad academic students. The only difference is the use of the CTE course code for a CTE completer program.	
					5400 - Entrepreneurship	
					5020 - Integrated Business Applications 1 (ARHS only)	
					5031 - Fundamentals of Web Page Design	
					6390- Education and Training work-based learning	