STATE BOARD OF COMMUNITY COLLEGES
Updating the North Carolina Statewide High School to Community College Career and Technical Education (CTE) Articulation Agreement

Request: The State Board of Community Colleges is asked to approve updates to the North Carolina High School to Community College CTE Articulation Agreement. The changes are listed in the table that starts on the following page.

Background: The North Carolina High School to Community College Articulation Agreement provides a seamless process that joins secondary and postsecondary Career and Technical Education (CTE) programs of study.

This statewide articulation agreement includes 66 high school CTE courses that match the knowledge and skills taught in similar community college courses. The articulation agreement ensures that if a student is proficient in a certain high school course, the student can receive college credit for that course at any North Carolina community college. This streamlines the student's educational pathway by eliminating the need to pass multiple courses with the same learning outcomes.

In addition to this statewide articulation agreement, local articulation agreements can be developed to build strong partnerships between high schools and individual community colleges. These local articulation agreements respond to new and emerging industries, provide for programs unique to the region, and add articulated courses and pathway alignments at the local level that are not included in the state agreement.

Rationale: Due to course changes at both secondary and postsecondary levels (new courses, archived courses, updated curriculum), the articulation agreement has been periodically updated since the first articulation agreement was established in 1999. This update to the articulation agreement began with recommendations from state-level curriculum consultants from both the NC Department of Public Instruction and the NC Community College System. Under the direction of the community college chief academic officers, subject-matter experts from the community colleges and the public-school units (PSUs) were asked to participate in evaluating course matches. The evaluations considered the course descriptions secondary course blueprints, postsecondary course syllabi, number of classroom and lab hours, and industry credentials associated with the courses to determine the extent of the course. Course matches with a significant match of 80 percent of the material were recommended for inclusion in this agreement. After the evaluation process, a final list of the proposed course matches was sent to the chief academic officers at each college for a final vote. Each course that received two-thirds of votes from colleges approved to offer the courses being considered were included on the final statewide articulation agreement. The chief academic officer for each college will give final approval for articulation credit to be awarded.

The chart on the following page outlines the courses included in the updated agreement.

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North Carolina High School to Community College CTE Articulation Agreement May 2025

High School Course	Community College Course(s)	Aligned with Industry Credential
BA10 Accounting I	ACC-115 College Accounting	Intuit Certified Bookkeeping Professional
BA20 Accounting II	ACC-115 College Accounting **OR** ACC-150 Accounting Software Applications	QuickBooks Online Certified User
CC10 Microsoft Word and PowerPoint	OST-136 Word Processing	Microsoft Office Specialist PowerPoint AND Microsoft Office Specialist Word
CC11 Microsoft Excel	CTS-130 Spreadsheet **AND** CTS-230 Advanced Spreadsheets	Microsoft Office Specialist Excel or Microsoft Office Specialist Excel Expert
CI20 Network Administration I **AND** CI21 Network Administration II	NET-110 Networking Concepts	CompTIA Network+ N10-009
CS10 Introduction to Computer Science	CSC-119 Programming Orientation	N/A
CS20 Computer Science I **AND** CS21 Computer Science II	CSC-120 Computer Fundamentals I **OR** CSC-143 Object-Oriented Programming	N/A
CI30 Cybersecurity I **AND** CI31 Cybersecurity II	SEC -110 Security Concepts	CI00: N/A CI01: CompTIA Security+
CP10 Python Programming I **AND** CP11 Python Programming II	CSC-121 Python Programming	CP10: PCEP - Certified Entry-level Python Programmer CP11: PCAP Certified Associate in Python Programming
CS30 Introduction to Data Science AND CS31 SAS Base Programming	CSC-152 SAS	SAS Base Programming Specialist
CD10 Adobe Visual Design I	GRD-151 Computer Design Basics **OR** DME-110 Intro to Media Technology	Adobe Certified Professional - Graphic Design and Illustration Using Adobe Illustrator AND Adobe Certified Professional - Visual Design Using Adobe Photoshop
CD11 Adobe Visual Design II	GRD-141 Graphic Design I **OR** DME-115 Graphic Design Tools	Adobe Certified Professional - Print and Digital Media Publication Using Adobe InDesign
CD12 Adobe Digital Design	WEB-110 Web Development Fundamentals	Adobe Certified Professionals. Web Authorizing Using Adobe Dreamweaver

CD12 Adobe Digital Design	GRD-188 Graphic Design for the Web I	Adobe Certified Professionals. Web Authorizing Using Adobe Dreamweaver
CD14 Adobe Video Design I	DME-140 Intro to Audio/Video Media	Adobe Certified Professional - Digital Video Using Adobe Premiere Pro
CD20 3D Modeling and Animation I **AND** CD21 3D Modeling and Animation II	SGD-114 3D Modeling I	CD21: Autodesk Certified User 3DS Max **OR** Autodesk Certified User Maya
CD20 3D Modeling and Animation I **AND** CD30 Game Art and Design I	SGD-111 Introduction to SGD	N/A
CI01 Computer Engineering Technology I **AND** CI02 Computer Engineering Technology II	CET-111 Computer Upgrade/Repair I **AND** CTS-120 Hardware/Software Support **OR** CTI-130 OS and Device Foundations	CI01: CompTIA A+ (Core 1) CI02: CompTIA A+ (Core 2)
CI10 Cisco Network Engineering Technology I **AND** CI11 Cisco Network Engineering Technology II	NET-125 Introduction to Networks **AND** NET-126 Switching and Routing **AND** NET-225 Enterprise Networking	CI11: Cisco Certified Support Technician (CCST) Networking
ME11 Entrepreneurship I	BUS-139 Entrepreneurship I **OR** ETR-210 Introduction to Entrepreneurship	Venture Entrepreneurial Expedition
MI31 Sales I	MKT-123 Fundamentals of Selling	N/A
MM51 Marketing I	MKT-120 Principles of Marketing	CIW Social Media Strategist
FC14 Counseling and Mental Health II	HSE-120 Interpersonal Relations	Pre-Professional Assessment and Certification in Family and Community Services;
FE11 Early Childhood Education I	EDU-119 Introduction to Early Childhood Education	First Aid/CPR/AED; North Carolina Early Childcare Credential Equivalency
FE12 Early Childhood Education II	EDU-151 Creative Activities	N/A
FH10 Culinary Arts and Hospitality I **AND** FH11 Culinary Arts and Hospitality II Applications **OR** FH12 Culinary Arts and Hospitality II Internship **AND**	CUL-140 Culinary Skills I **OR** CUL-142 Fundamentals of Food	FH10: N/A FH11: ANSI-Accredited Food Protection Manager Certification FH12: ANSI-Accredited Food Protection Manager Certification FH13: Certified Fundamentals Cook (CFC) **OR**

FH13 Culinary Arts and Hospitality III		Pre-Professional Certification in Culinary Arts **OR** ProStart National Certificate of Achievement (COA)
FN41 Food and Nutrition I **AND** FN42 Food and Nutrition II	CUL-112 Nutrition for Food Service **AND** CUL-112 A Nutrition for Food Service Lab	FN41: ANSI-Accredited Food Handler Certificate FN42: ANSI-Accredited Food Protection Manager Certification Pre-Professional Certification in Nutrition, Food, and Wellness
FN41 Food and Nutrition I **AND** FN42 Food and Nutrition II **OR** FH10 Culinary Arts and Hospitality I **AND** FH11 Culinary Arts and Hospitality II **AND** FH12 Culinary Arts and Hospitality II Internship	CUL-110 Safety and Sanitation **AND** CUL-110A Safety and Sanitation Lab	FN41: ANSI-Accredited Food Handler Certificate FN42: ANSI-Accredited Food Protection Manager Certification Pre-Professional Certification in Nutrition, Food, and Wellness FH10: N/A FH11: ANSI-Accredited Food Protection Manager Certification FH12: ANSI-Accredited Food Protection Manager Certification
FN43 Food Science and Technology	CUL-150 Food Science **AND** CUL-150 A Food Science Lab	AMSA Food Safety and Science Certification Pre-Professional Certification in Food Science Fundamentals
FI23 Interior Design Technology	ARC-225 Architectural Building Information Modeling I **AND** ARC-225A Lab	Autodesk Certified User in Revit for Architectural Design
HH32 Pharmacy Technology	PHM-165 Pharmacy Prof Practice	CPhT Certified Pharmacy Technician
HN43 Nursing Fundamentals and Practicum	NAS-101 Nurse Aide 1	NC Nurse Aide I (Certified Nursing Assistant)
IP22 Emergency Medical Technology	EMS-110 Emergency Medical Technician	Emergency Medical Technician Traffic Incident Management (TIMS)
IC00 Core and Sustainable Construction and IC11 Masonry I **AND** IC12 Masonry II	MAS-110 Masonry I	IC11: NC NCCER - Masonry I OSHA 10-hour Construction Safety and Health IC12: NC NCCER - Masonry II
IC00 Core and Sustainable Construction **AND** IC21 Carpentry I	CAR-110 Intro to Carpentry **OR** WOL-110 Basic Construction Skills **OR** CST-110 Intro to Construction	IC00: NC NCCER - Construction Core, IC21: NC NCCER - Carpentry I

IC00 Core and Sustainable Construction, IC41 Electrical Trades I, **AND** IC42 Electrical Trades II	ELC-113 Residential Wiring	IC00: NC NCCER - Construction Core OSHA 10-hour Construction Safety and Health IC41: NC NCCER - Electrical Trades I IC42: NC NCCER - Electrical Trades II
IC13 Masonry III	MAS-110 Masonry I	NC NCCER - Masonry III
IC21 Carpentry I **AND** IC22 Carpentry II	ARC-112 Construction Materials and Methods	IC21: NC NCCER - Carpentry I IC22: NC NCCER - Carpentry II
IC61 Drafting I	DFT-111 Technical Drafting I **AND** DFT-111A Technical Drafting Lab	Autodesk Certified User AutoCAD
IC61 Drafting I **AND** IC62 Drafting II - Architectural	DFT-115 Architectural Drafting **OR** DFT-119 Basic CAD **OR** ARC-114 Architectural CAD	IC61: Autodesk Certified User AutoCAD IC62: Autodesk Certified User in Revit for Architectural Design
IC61 Drafting I **AND** IV22 Drafting II - Engineering	DFT-151 CAD I	IC61: Autodesk Certified User AutoCAD IV22: Autodesk Certified User in Inventor for Mechanical Design **OR** SolidWorks CAD Design Associate (CSWA) OR Autodesk Certified User Fusion 360
IM21 Woodworking I **AND** IM22 Woodworking II	CAB-111 Cabinetmaking I	IM21: OSHA 10-Hour Construction Industry Certification, IM22: Woodwork Career Alliance (WCA) Sawblade Certificate
IM41 Metals Manufacturing Technology I **AND** IM42 Metals Manufacturing Technology II	BPR-111 Blueprint Reading **AND** MAC-111 Machining Technology I **AND** MAC-151 Machining Calculations	IM41: NIMS Measurement, Materials, and Safety IM42: NIMS Job Planning, Benchwork, and Layout
IM61 Welding Technology I	WLD-110 Cutting Processes	AWS SENSE Entry Welder Program - Thermal Cutting Process OSHA 10-hour Construction Safety and Health **OR** S/P2 - Welding
IM61 Welding Technology I **AND** IM62 Welding Technology II	WLD-110 Cutting Processes **AND** WLD-115 SMAW (Stick) Plate	IM61: AWS SENSE Entry Welder Program - Thermal Cutting Process

		OSHA 10-hour Construction Safety and Health **OR** S/P2 - Welding IM62: AWS SENSE Entry Welder Program - Shielded Metal Arc Welding Process **OR** Certified Welder per Welding Code AWS D1.1 (SMAW)
IM63 Welding Technology III	WLD-121 GMAW (MIG) FCAW/Plate **OR** WLD-123 FCAW Plate	AWS SENSE Entry Welder Program - Flux Cored Arc Welding Process **AND** AWS SENSE Entry Welder Program - Gas Metal Arc Welding Process **OR** Certified Welder per Welding Code AWS D1.1 (FCAW) AND Certified Welder per Welding Code AWS D1.1 (GMAW)
IT11 Automotive Service Fundamentals	TRN-110 Introduction to Transportation Technologies	Automotive Lift Institute - Lifting It Right: School Edition S/P2 Automotive Service Pollution Prevention S/P2 Automotive Service Safety
IT16 Automotive Service I **AND** IT17 Automotive Service II **AND** IT18 Automotive Service III, must complete MLR Task List	TRN-111 Chassis Maint/Light Repair **AND** TRN-112 Powertrain Maint/Light Repair **AND** AUT-113 Automotive Servicing I	IT17: ASE Entry-Level Certification - Maintenance and Light Repair IT18: ASE Entry-Level Certification - Electrical/Electronic Systems
IT30 Collision Repair Fundamentals	TRN-110 Introduction to Transportation Technologies	S/P2 Collision Repair and Refinish - Pollution Prevention S/P2 Collision Repair and Refinish Safety
IT30 Collision Repair Fundamentals **AND** IT31 Collision Repair I **AND** IT32 Collision Repair II- Non-structural	AUB-121 Non-structural Damage	IT32: I-CAR Platinum ProLevel 1 for Non-Structural
IT30 Collision Repair Fundamentals **AND** IT31 Collision Repair I **AND** IT33 Collision Repair II - Refinishing	AUB-111 Painting and Refinishing I	T33: ASE Entry-Level Certification - Painting and Refinishing OR I-CAR Platinum ProLevel 1 for Refinishing
AA22 Animal Science II - Food Animal	ANS-110 Animal Science	North Carolina Beef Quality Assurance

AA41 Veterinary Assisting	VET-114 Intro to Vet Med Tech	Elanco Veterinary Medical Applications Certification OR Certified Veterinary Assistant
AN53 Natural Resources II - Forestry	FOR-171 Intro to Forest Resources	Certified Forest Worker
AP41 Horticulture I - Introduction to Plants	HOR-150 Introduction to Horticulture	N/A
AP42 Horticulture II - Plant Production	HOR-152 Agribusiness Technology	N/A
AP42 Horticulture II - Plant Production	HOR-168 Plant Propagation	N/A
AP44 Horticulture II - Landscape Construction	HOR-110 Intro to Landscaping **OR** LSG-111 Basic Landscaping Tech. **OR** HOR-114 Landscape Construction	Future Plant Professional
AS32 Agriculture Mechanics II	WLD-112 Basic Welding Processes	Certified Welder per Welding Code AWS D1.1 (FCAW) AND Certified Welder per Welding Code AWS D1.1 (GMAW)
AS32 Agriculture Mechanics II	TRN-180 Basic Welding for Transportation	AS31: OSHA 10-hour General Industry Safety and Health AS32: Certified Welders per Welding Code AWS D1.1 AS32: National Safe Tractor and Machinery Operation Certification
AU21 Sustainable Agriculture Production I **AND** AU22 Sustainable Agriculture Production II	AGR-139 Intro to Sustainable Ag	AU22: Certified Beekeeper