NORTH CAROLINA HIGH SCHOOL
TO COMMUNITY COLLEGE

Articulation Agreement

BETWEEN THE
North Carolina Department of Public Instruction — NCDPI

AND THE
North Carolina Community College System — NCCCS

REVISED JANUARY 2005

NORTH CAROLINA

HIGH SCHOOL TO

COMMUNITY COLLEGE

ARTICULATION AGREEMENT

History

A statewide steering committee first met to explore articulation of credit between North Carolina's public schools and community colleges in August 1998. This committee consisted of leaders from the community college and public school communities at both the local and state level. The committee was tasked with the determination and development of the guiding principles for the Articulation Agreement, definitions, goals, objectives, criteria, and work team structure for the Articulation Agreement.

Over the next several months, 14 curriculum work teams and three support services work teams were created to assist in the process. In order to remain in compliance with Southern Association of Colleges and Schools criteria, the curriculum work teams were composed of faculty and program specific curriculum specialists. More than 200 high school and community college faculty, curriculum specialists, counselors, registrars, and instructional administrators worked through issues related to placement tests, documentation, and evaluation. Recommendations from all of the work teams were incorporated into the articulation document. From December 1998 through August 1999, presentation and revision of draft documents of the North Carolina High School to Community College Articulation Agreement occurred with five public hearings and additional solicitation of feedback from the stakeholders. The revised Agreement was presented to and endorsed by the State Boards of Education and Community Colleges in September 1999. In November 1999, each of the 59 institutions of the North Carolina Community College System endorsed, adopted, and accepted the North Carolina High School to Community College Articulation Agreement.

This current Articulation Agreement began to evolve in late November 2003 when a Leadership Committee was convened to update the definition, goal, guiding principles, criteria, components, and evaluation process for the Statewide Articulation Agreement. This committee was composed of college presidents, chief academic officers, associate superintendents, principals, local career-technical directors, College Tech Prep coordinators, business representatives, and state-level staff from both secondary and postsecondary education.

HISTORY CONTINUED.....

Using the Leadership Committee's recommendations and the original Articulation Agreement, curriculum staff from both the North Carolina Department of Public Instruction and the North Carolina Community College System identified potential courses in the career technical education's emerging curricula areas to be considered for articulation.

In January 2004, eleven curriculum teams, one team for each pathway, assembled to take part in the curricula review process. Each team consisted of 12 high school and community college faculty. Over 300 faculty participated. The teams reviewed course descriptions, blueprints and competencies then determined if the course was appropriate for articulation. Crucial in the approval process was significant competency match to industry regulations and licensing requirements.

Upon completion of competency and content review, recommendations for course articulation were submitted to state staff for compilation and dissemination. Four drafts were distributed and refined over the next several months. Email permitted all 58 community colleges to have direct input into this process. Final drafts were presented to North Carolina Association of Community College Instructional Administrators at their spring conference and to the North Carolina Association of Community College Presidents during their fall meeting. The President's Association endorsed the Agreement at their annual meeting in October 2004.

The NC High School to Community College Articulation Agreement was presented to, and endorsed by, the NC State Board of Community Colleges on November 19, 2004. The NC High School to Community College Articulation Agreement became effective in January 2005.

Definition

Articulation is a systematic, seamless student transition process from secondary to postsecondary education that maximizes use of resources and minimizes content duplication.

Goal

Students will make a seamless transition of identified courses from secondary to postsecondary education.

Guiding Principles

A. The statewide articulation agreement will build on the existing College Tech Prep course of study.

B. In selection of courses for articulation, first priority will be the North Carolina Department of Public Instruction standard course of study.

C. Local articulation efforts and local flexibility in responding to new and emerging areas are encouraged. This agreement shall not supersede local articulation agreements based upon national skill standards, external program certification, or accreditation requirements.

D. The curriculum alignment committees will consist of five experienced community college teachers, five experienced high school teachers, one community college program curriculum specialist, and one public school curriculum specialist. The number of participants may be modified under special considerations. Criteria to award college credit for identified high school courses must be simple and uniform for all career technical areas.

E. The state offices of NCDPI and NCCCS will monitor the number of articulated students, their progression rate, and their progress toward graduation, employment and/or transfer to postsecondary institutions.

F. For credit to be awarded in any individual course, all criteria of the Commission on College, Southern Association of Colleges and Schools (SACS) must be met.

G. Guidelines will be monitored on an as needed basis.

Components

Identification and Alignment of Courses to be Articulated in the Future

The curriculum alignment committees will use the following procedures to identify courses for articulation:

1. Review high school and community college course descriptions.
2. Review high school course blueprints and community college course outlines to compare competencies.
3. Review existing local articulation agreements.
4. Determine if articulation is course to course, courses to course, courses to courses, or course to courses, and if competencies are similar.
5. Follow policies and regulations of licensing/accrediting bodies.

Criteria to Award College Credit

The following criteria will be used to award college credit for identified high school courses:

1. Grade of **B** or higher in the course, and;
2. A raw score of **80** or higher on the standardized VoCATS post-assessment.

To receive articulated credit, students must enroll at the community college within **two** years of their high school graduation date.

Process to Document Credit

The official high school transcript and all official standardized VoCATS post-assessment scores will be required to verify that the criteria to award credit for articulated course work has been met. Where indicated, students will submit supporting documentation to the community college.

Community college officials will have the responsibility for verifying eligibility and acceptance of the articulated course or courses on the high school transcript for college credit.

A technical committee will be appointed to determine how articulated courses and corresponding VoCATS scores will be reflected on the high school electronic transcript in order to make the transition from high school to community college more efficient. This committee will be comprised of NCDPI and NCCCS information system personnel and representatives from local schools and colleges.

PROCESS OF EVALUATION

The following elements will be considered in the evaluation:

1. Evaluate the criteria for awarding credit (grade of B or higher in the course and a raw score of 80 or higher on the standardized VoCATS post-assessment) to ensure student success in the subsequent course(s) at the community college.
2. Evaluate the process to document credit from high school to the community college.
3. Review the Recommended Course List for course additions and deletions to insure the Recommended Course List reflects current curricula.
4. Measure use of the NC High School to Community College Articulation Agreement to include the number of students receiving articulation credit, number of articulated credits earned, cost savings to students, and graduation rates of College Tech Prep students.
5. A technical committee will be appointed to determine how the above data elements may be collected annually utilizing the NCDPI and NCCCS information management systems. This committee will be comprised of NCDPI and NCCCS staff and information systems personnel.

MATRIX OF EVALUATION ELEMENTS

Evaluation Element	Responsible Party	Method for Evaluation	Time Element
Evaluate the criteria for awarding credit to ensure student success in the subsequent course(s) at the community college	NCDPI & NCCCS Staff	Computer assessment and survey to review success rate of students in classes subsequent to articulated classes	Annually
Evaluate the process to document credit from high school to the community college	NCDPI & NCCCS Staff	Survey of college registrars, counselors, admissions officers, high school counselors, and SIMS operators	Every 3 years
Review of the Recommended Course List for course additions and deletions to insure the Recommended Course List reflects current curricula	NCDPI & NCCCS Staff	Administrative Review Curriculum Alignment Committee Meetings (as needed/requested)	Annually As requested
Measure use of the *NC High School to Community College Articulation Agreement* to include the number of students earning articulation credit, number of students awarded articulation credit, cost savings to students, and graduation rates of College Tech Prep students	Community College Information Systems Personnel Associate Director for Tech Prep NCCCS	Computer Assessment Survey	Annually

Course List

HIGH SCHOOL Course Number	Title	COMMUNITY COLLEGE Course Number	Title
AGRICULTURE MECHANICS/EQUIPMENT OPERATIONS			
6831	Agricultural Mechanics I	MNT 110	Intro to Maintenance Procedures
6832	Agricultural Mechanics II	WLD 112	Basic Welding Processes
ANIMAL SCIENCE			
6821 6822	Animal Science I AND Animal Science II	ANS 110	Animal Science
AUTOMOTIVE SERVICE TECHNOLOGY			
7511 7512	Automotive Service Technology I AND Automotive Service Technology II	AUT 110* AUT 111 AUT 161*	Intro to Auto Technology AND Basic Auto Technology AND Electrical Systems
7512 7513	Automotive Service Technology II AND Automotive Service Technology III	AUT 151*	Brake Systems

** For articulated credit the student must verify skills by submitting to the automotive department chair:*
Vehicle Inspecting Certificate for AUT 110 Credit
NATEF Brakes Task List signed by High School Instructor for AUT 151Credit
NATEF Electrical Task List signed by High School Instructor for AUT 161Credit

BUSINESS MANAGEMENT/BUSINESS ADMINISTRATION			
6200 6600	Principles of Business and Personal Finance *(Business)* OR Principles of Business and Personal Finance *(Marketing)*	BUS 125	Personal Finance
6535	Business & Electronic Communications	BUS 260	Business Communications *(ENG 111 prerequisite)*
6235 6615	Small Business Entrepreneurship *(Business)* OR Small Business Entrepreneurship *(Marketing)*	BUS 230	Small Business Management
COLLISION REPAIR			
7521 7522	Collision Repair Technology I AND Collision Repair Technology II	AUB 121	Non-Structural Damage I

Course List

HIGH SCHOOL Course Number	Title	COMMUNITY COLLEGE Course Number	Title
CONSTRUCTION TECHNOLOGY			
7721 7722	Construction Technology I AND Construction Technology II	CAR 110	Introduction to Carpentry
COSMETOLOGY			
7811	Cosmetology I *(includes 450 hours of class time)*	COS 111 COS 112	Cosmetology Concepts I AND Salon I
7812	Cosmetology II *(includes 450 hours of class time)*	COS 113 COS 114	Cosmetology Concepts II AND Salon II
CULINARY TECHNOLOGY			
7121 7122	Culinary Arts and Hospitality I AND Culinary Arts and Hospitality II	CUL 110	Sanitation & Safety
7046	Foods II Advanced	CUL 110	Sanitation & Safety
7075	Foods II Food Science	CUL 150	Food Science
7045 7046	Foods I Fundamentals AND Foods II Advanced	CUL 112	Nutrition for Food Service
DRAFTING			
7921	Drafting I *(135-180 hrs)*	DFT 111* DFT 111A*	Technical Drafting I AND Technical Drafting I Lab
7921 7962	Drafting I AND Drafting II Architectural	DFT 115* DFT 151* DFT 119* ARC 114*	Architectural Drafting OR CAD I OR Basic CAD OR Architectural CAD
7921 7962 7963	Drafting I AND Drafting II Architectural AND Drafting III Architectural	DFT 151* ARC 114*	CAD I OR Architectural CAD
7921 7972	Drafting I AND Drafting II Engineering	DFT 151*	CAD I
7973	Drafting III Engineering	DFT 112* DFT 112A*	Technical Drafting II AND Technical Drafting II Lab

** Upon acceptance to college, the student will submit a portfolio to the department head for review and consideration for articulated credit.*

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HIGH SCHOOL Course Number	Title	COMMUNITY COLLEGE Course Number	Title
EARLY CHILDHOOD EDUCATION			
7111	Early Childhood Education I AND	EDU 111	Early Childhood Credentials I AND
7112	Early Childhood Education II	EDU 112	Early Childhood Credentials II
Note: Agreement between NCDPI, NCCCS and NCHHS Division of Child Development.			
ELECTRICAL TRADES			
7741	Electrical Trades I AND	ELC 113	Basic Wiring I
7742	Electrical Trades II		
ELECTRONICS			
7631	Electronics I AND	ELC 112	DC/AC Electricity AND
7632	Electronics II	ELC 126	Electrical Computations AND
		EGR 131	Intro to Electronics Technology AND
		CET 110	Intro to Computer Engineering Technology
ENVIRONMENTAL AND NATURAL RESOURCES			
6851	Environmental & Natural Resources I	ENV 110	Environmental Science
6851	Environmental & Natural Resources I AND	ENV 228	Environmental Issues AND
6852	Environmental & Natural Resources II	ENV 220	Applied Ecology
FURNITURE AND CABINETMAKING			
7621	Furniture & Cabinetmaking I AND	CAB 111	Cabinetmaking I
7622	Furniture & Cabinetmaking II		
GRAPHICS			
7911	Printing Graphics I	GRA 110	Graphic Arts Orientation
7911	Printing Graphics I AND	GRA 110	Graphic Arts Orientation AND
7912	Printing Graphics II	GRA 121	Graphic Arts I AND
		GRA 151	Computer Graphics I
HEALTH CARE / HEALTH SCIENCES			
7221	Medical Sciences I OR	MED 110	Orientation to Medical Assistant AND
7211	Allied Health Sciences I	MED 112	Orientation to Clinic Setting I
7222	Medical Sciences II OR	MED 121	Medical Terminology I AND
7212	Allied Health Sciences II	MED 122	Medical Terminology II
Student may take Medical Sciences I and II or Allied Health Sciences I and II or a combination of I and II to receive credit for Med 110, Med 112, Med 121 and Med 122.			

Course List

HIGH SCHOOL Course Number	Title	COMMUNITY COLLEGE Course Number	Title
HORTICULTURE			
6841 6842	Horticulture I AND Horticulture II	HOR 150	Introduction to Horticulture
6841 6882	Horticulture I AND Horticulture II— Landscape Construction	LSG 111	Basic Landscaping Technology
INFORMATION TECHNOLOGY			
7981 (CISCO)	Network Engineering Technology II - Cisco	NET 125 NET 126	Routing & Switching I AND Routing & Switching II
7982 (CISCO)	Network Engineering Technology III - Cisco	NET 225 NET 226	Advanced Router & Switching I AND Advanced Router & Switching II
6340 6411	Foundations of Information Technology OR Computer Applications I	CIS 111/CTS 111* CIS 113/CTS 113*	Basic PC Literacy OR Computer Basics
6412	Computer Applications II	CIS 165/OST 233 CIS 172/WEB 110* CIS 169/CTS 125*	Desktop Publishing I OR Introduction to the Internet OR Business Presentations
6415	e-Commerce I	CIS 172/WEB 110*	Introduction to the Internet
7991	Computer Engineering I	CTS 120*	Hardware/Software Support
7992	Computer Engineering II	CTS 220*	Advanced Hardware/ Software Support
6341 7980	Networking I OR	NET 110	Data Communication/Networking
6416	e-Commerce II	ITN 160/WEB 210*	Web Design

** Course Code Number pending Curriculum Review Committee Approval June 2005.*

Note: For articulated credit in the Networking area, students can receive a raw score of 80% or level 3 in VoCATS to get articulated credit.

MARKETING			
6621 6622	Marketing AND Marketing Management	MKT 120	Principles of Marketing
6626	Strategic Marketing	MKT 120	Principles of Marketing

Course List

High School Course Number	High School Title	Community College Course Number	Community College Title
Metals Manufacturing			
7641 7642	Metals Manufacturing Technology I AND Metals Manufacturing Technology II	BPR 111 MAC 111 MAC 151	Blueprint Reading AND Machining Technology I AND Machining Calculations
Office and Information Systems			
6411	Computer Applications I	CIS 111 CIS 113 OST 136	Basic PC Literacy OR Computer Basics AND Word Processing
6412	Computer Applications II	OST 137 CIS 169 CIS 172	Office Software Applications OR Business Presentations AND Intro to the Internet
6311	Computerized Accounting I	ACC 111 ACC 115 ACC 118	Financial Accounting OR College Accounting OR Accounting Fundamentals I
6312	Computerized Accounting II	ACC 119	Accounting Fundamentals II
Welding			
7661	Welding Technology I *Includes satisfactory completion of Wheels of Learning modules:* *29101 Oxyfuel Cutting* *20102 Air Carbon ARC Cutting & Gouging* *29103 Plasma ARC Cutting (PAC)*	WLD 110	Cutting Processes
7661	Welding Technology I *Includes satisfactory completion of Wheels of Learning modules:* *00101-00 Basic Safety* *00102-00 Basic Math* *00103-00 Introduction to Hand Tools* *00104-00 Introduction to Power Tools* *00105-00 Introduction to Blueprints* *00106-00 Basic Rigging*	WOL 110	Basic Construction Skills
7661 7662	Welding Technology I AND Welding Technology II *Includes satisfactory completion of Wheels of Learning modules:* *29104 Base Metal Preparation* *29106 SMAW Equipment & Setup* *29107 Shielded Metal ARC Electrodes & Selection* *29108 SMAW Beads & Fillet Welds* *29112 SMAW Groove Welds & Backing* *29110 Welding Symbols* *29111 Reading Welding Detail Drawings*	WLD 115	SMAW (Stick) Plate

Course List

HIGH SCHOOL Course Number	Title	COMMUNITY COLLEGE Course Number	Title
WELDING			
7661 7662 7663	**Welding Technology I** AND **Welding Technology II** AND **Welding Technology III** AND *Satisfactory completion of Wheels of Learning and NC Construction Industry Alliance w/NCCER:* *29105 Joint Fit Up & Alignment* *29109 Weld Quality* *29113 SMAW Open V Butt Welds* *29301 Physical Characteristics & Mechanical Properties of Metals* *29201 Preheating and Postheating of Metals* *29114 SMAW Open Root Pipe Welds*	WLD 116	**SMAW (Stick) Plate/Pipe**
7662	**Welding Technology II** *Includes satisfactory completion of Wheels of Learning modules:* *29303 GMAW Plate* *29302 GMAW - FCAW*	WLD 121	**GMAW (MIG) FCAW/Plate**
7663	**Welding Technology III** *Includes satisfactory completion of Wheels of Learning modules:* *29204 Welding Symbols* *29206 Reading Welding Detail Drawings*	WLD 141	**Symbols & Specifications**
7663	**Welding Technology III** *Includes satisfactory completion of Wheels of Learning modules:* *29202 GTAW Carbon Steel Pipe* *19203 GTAW Low Alloy Steel Pipe*	WLD 132	**GTAW (TIG) Plate/Pipe**
7663	**Welding Technology III** *Includes satisfactory completion of Wheels of Learning modules:* *29202 GTAW Equipment & Filler Metals* *29203 GTAW Plate*	WLD 131	**GTAW (TIG) Plate**
7663	**Welding Technology III** *Includes satisfactory completion of Wheels of Learning modules:* *09114 SMAW Open-Root Pipe Welds* *09115 SMAW Stainless Steel Groove Welds*	WLD 215	**SMAW (Stick) Pipe**

Appendix A

Leadership Steering Committee on Articulation 2003–2004

Name	Position	School/Association
Bill Aiken	President	Sampson Community College
Bob Boyce	Assistant Superintendent	Edenton-Chowan Schools
Elizabeth Brown	Director, Federal Vocational Education	NC Community College System
Don Cameron	President	Guilford Technical Community College
Randy Collier	Health Science Academy	Pitt County Schools
Edward Croom	Assistant Superintendent	Johnston County Schools
Janyth Fredrickson	Ex. Vice President, Ed. Programs	Alamance Community College
Emily Freeland	Charlotte-Mecklenburg CTP Coordinator	Charlotte-Mecklenburg Schools
Gene Hemby	Director, Tech Prep, Coop	Pitt Community College
Morris Kornegay	Principal	Eastern Wayne High School
Sandra McCullen	Associate Superintendent	Wayne County Public Schools
Sue Miller	Vice President of Academic Affairs	Sampson Community College
Jeff Moss	Superintendent	Stanly County Schools
Sheryl Nixon	Curriculum Spec. CTP	Lincoln County Schools
Linda Phillips	VP Academic and Student Affairs	Catawba Valley Community College
Charles Perry	Director CTE	Union County Schools
Bill Price	Apprenticeship, Business and Mkt.	NC Dept. of Public Instruction
Shirley Ray	Regional Coordinator	CTE Western Region
Kay Rogers	Forsyth Tech Prep	Winston-Salem/Forsyth Schools
Frank Sells	President	Surry Community College
Ken Smith	Section Chief, Business and Mkt.	NC Dept. of Public Instruction
Robert White	Coordinator of Workforce Development	Guilford County Schools
Ken Whitehurst	Associate Vice President, Academic and Student Services	NC Community College System
Bob Witchger	Associate Director, Tech Prep	NC Community College System
Gayle Kabes	President/Facilitator	Kabes and Associates, Inc.
Phillis Ostheim	President/Facilitator	True Vine Associates, Inc.

Appendix B

Curriculum Review Teams determined that the following course competencies aligned. These community college courses appear on the approved *Comprehensive Articulation Agreement between the North Carolina University System and the North Carolina Community College System* and therefore are **NOT** included in this Agreement. Local community colleges and local educational units may consider these courses for inclusion on local articulation agreements.

HIGH SCHOOL		COMMUNITY COLLEGE	
Course Number	Title	Course Number	Title
6215	**Business Law**	BUS 115	**Business Law I**
6411	**Computer Applications I**	CIS 110	**Introduction to Computers**
6851 6852	**Environmental & Natural Resources I** AND **Environmental & Natural Resources II**	BIO 140 BIO 140A ENV 228 ENV 220	**Environmental Biology** AND **Environmental Biology Lab** AND **Environmental Issues** AND **Applied Ecology**

Appendix C

A Curriculum Review Team determined that the following course competencies aligned. However, due to the stipulations applied, the course was not included in the Agreement. Local community colleges and local educational units may consider these courses for inclusion on local articulation agreements.

HIGH SCHOOL		COMMUNITY COLLEGE	
Course Number	Title	Course Number	Title
BIOTECHNOLOGY			
6872	**Biotechnology**	BTC 181 BPM 110 PTC 110	**Basic Lab Techniques** OR **Bioprocess Practices** OR **Industrial Environment**

The Curriculum Review Team stipulated prerequisite of Algebra II, Physical Science, CP Chemistry and CP Biology. Demonstrated FDA protocols are to be part of the final project in 6872.

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