

NORTH CAROLINA COMMUNITY COLLEGE SYSTEM Dr. R. Scott Ralls, President

March 19, 2012

MEMORANDUM

TO: Presidents

Chief Academic Officers

FROM: Sharon E. Morrissey

Senior Vice President and Chief Academic Officer

SUBJECT: State Board Action on March 16, 2012

Curriculum Standard Revision

On March 16, 2012, the State Board of Community Colleges approved the requested revisions to the following curriculum standard:

Computer Technology Integration (A25500)

Please be aware that you must implement the revised standard no later than one year after the effective term. You must update your college's electronic programs of study and receive approval from the System Office prior to implementation of the revised program.

If you have any questions concerning the State Board action item, please contact Ms. Jennifer Frazelle at 919.807.7120 or frazellej@nccommunitycolleges.edu. The revised standard is attached for your convenience. You may view all curriculum standards and courses by visiting the Programs website at:

http://www.nccommunitycolleges.edu/Programs/index.html

SEM/JF/gr Attachment

c: Mr. Van Wilson

Ms. Elizabeth Self Ms. Jennifer Frazelle Program Coordinators

> CC12-006 Email

CURRICULUM STANDARD

Effective Term Fall 2012 [2012*03]

Curriculum Program Title

Computer Technology Integration

Code

A25500

Concentration

Curriculum Description

The Computer Technology Integration (CTI) curriculum prepares graduates for employment as designers, testers, support technicians, administrators, developers, or programmers with organizations that use computers to design, process, manage, and communicate information, depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to communicate and solve technical issues related to information support and services, interactive media, network systems, programming and software development, and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204(3)]

- **I. General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- **II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. (See second page for additional information.)
- III. Other Required Hours. A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

^{*}Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Major Hours

[ref. 23 NCAC 02E.0204 (3)]

- **A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- **B.** Concentration (*if applicable*). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours. Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

Computer Technology Integration A25500						
		•	<i>3,</i>	AAS	Diploma	Certificate
Mir	Minimum Major Hours Required		49 SHC	30 SHC	12 SHC	
A.	<u> </u>		26-27 SHC	17-18 SHC		
Req	uired Cours					
*	CTI 110	Info Sys Business Concept Web, Pgm, & DB Foundation Network & Sec Foundation	3 SHC 3 SHC 3 SHC			
Sele	ct one set:					
	CTI 130 or	OS and Device Foundation	6 SHC			
	NOS 110 and	Operating System Concepts	3 SHC			
	CTS 120 or	Hardware/Software Support	3 SHC			
	CET 111 and	Computer Upgrade/Repair I	3 SHC			
	CET 211 or	Computer Upgrade/Repair II	3 SHC			
	CTS 120	Hardware/Software Support	3 SHC			
	CTS 220	Adv Hard/Software Support	3 SHC			
	uired Subje					
		from one of the five (5) subject areas s within the same subject area selec				
Info	rmation Supp	oort and Services				
	CIS 110	Introduction to Computers	3 SHC			
	CIS 111	3	2 SHC			
	OST 122	Office Computations	2 SHC			
			Continued on next page			

Computer Technology Integration A25500 (Continued)				
Interactive Media				
DEA 111 Introduction to DEAT	3 SHC			
DME 110 Intro to Digital Media	3 SHC			
GRD 110 Typography I	3 SHC			
SGD 111 Introduction to SGD	3 SHC			
WEB 110 Internet/Web Fundamentals	3 SHC			
Network Systems				
NET 110 Networking Concepts	3 SHC			
NET 125 Networking Basics	3 SHC			
NOS 110 Operation Systems Concepts	3 SHC			
TNE 111 Campus Networks I	3 SHC			
1112 111 Campus 1 Con other	5 5110			
Programming and Software Development				
CIS 115 Intro to Prog & Logic	3 SHC			
CSC 133 C Programming	3 SHC			
CSC 134 C++ Programming	3 SHC			
CSC 135 COBOL Programming	3 SHC			
CSC 139 Visual BASIC Prog	3 SHC			
CSC 141 Visual C+ + Prog	3 SHC			
CSC 142 Visual COBOL Prog	3 SHC			
CSC 151 JAVA Programming	3 SHC			
CSC 153 C# Programming	3 SHC			
DBA 110 Database Concepts	3 SHC			
Emorging Information Toohnology				
Emerging Information Technology: CCT 110 Intro to Cyber Crime	3 SHC			
EGR 115 Intro to Technology	3 SHC			
HBI 110 Issues and Trends in HBI	3 SHC			
GIS 111 Introduction to GIS	3 SHC			
HPC 110 Intro to HPC	3 SHC			
SEC 110 Security Concepts B. CONCENTRATION	3 SHC			
B. CONCENTRATION				
C. OTHER MAJOR HOURS				
To be selected from the following prefixes:				
ACC DIE CCT CET CE CIC COE CEC	CTI CTC DDA DEA			
ACC, BUS, CCT, CET, CIS, CJC, COE, CSC				
DES, DME, ECM, ECO, EGR, ELN, GIS, GRA, GRD, HBI, HIT, HPC,				
ISC, MIT, MKT, NET, NOS, OMT, OST, SEC, SGD, SGR, TNE and				
WEB				
Foreign language courses (including ASL) that	are not designated as			
approved other major hours may be included in all programs up to a				
maximum of 3 semester hours of credit.				