

OSBM

NORTH CAROLINA UNIVERSITY SYSTEM

Study of Distance Education

As Directed by Session Law 2005-276, Section 9.7

April 30, 2006



Prepared By:

Office of State Budget and Management

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INTRODUCTION

Scope

Section 9.7 of Session Law 2005-276 directed the Office of State Budget and Management (OSBM) to conduct a study to identify and analyze the distance education programs at the institutions in the North Carolina University System. The study shall:

- Identify any duplication in course and program offerings,
- Identify leader courses and programs at campuses in a particular area of study,
- Identify the cost of developing online courses, and
- Determine which campuses are best suited to offer a particular course or program of study.

This study includes only a review and analysis of E-Learning (online) distance education courses and does not include remote location distance education. Remote location courses are classes held at a specified location and a specific time. Students must travel to the specified location for instruction. E-learning allows students to receive instruction at any location that has internet connectivity.

Methodology

To comply with the legislative requirements, OSBM performed the following:

- Reviewed the University System and each university's distance education website,
- Obtained a list of E-Learning courses offered at each university,
- Obtained a list of E-Learning courses developed during calendar year 2005,
- Identified the cost of developing E-Learning courses from a sample of E-Learning courses,
- Conducted a comparison of E-Learning courses and programs throughout the University System,
- Identified the N.C. Community Colleges role in E-Learning education, and
- Reviewed relevant studies related to distance education and E-Learning courses.

BACKGROUND

The purpose of distance education is to increase higher education program accessibility by decreasing distance as a barrier. Distance education includes distance learning and E-Learning. Distance learning may incorporate video and audio technologies so that students can "attend" class sessions that are being presented at a remote location. E-Learning is the use of Internet-based programs that are developed and managed in a location that is independent of the learner. E-Learning programs may have some courses with non-online elements such as proctored exams, clinical experiences, etc., but an electronically available program would mean the majority of the work could be completed by the student in their home community and that the non-online components would be available locally or with only a small number of visits to a site away from their home community.

The North Carolina University (UNC) System began receiving funds from the Legislature in fiscal year 1999 for the development of distance education. Since that time the UNC System requires all campuses to obtain authorization prior to developing any distance education program. In addition to UNC System approval of programs, the NC Community College System and the UNC System are collaborating to establish the 2+2 E-Learning initiative which allows a student to take the first two years of postsecondary instruction at a community college and the last two years at a university, where the student receives a degree. At this point the main emphasis of the 2+2 E-Learning initiative is teaching and nursing programs.

The UNC system has approved several E-Learning degree (baccalaureate, master, and doctoral) and certificate (advance study, other certificate, and teacher licensure areas) programs since distance education began. Chart 1, on the next page, shows the number of E-Learning programs offered at each campus. See Appendix A for a detailed list of programs offered by each campus. There are a total of 127 programs provided by 13 campuses. East Carolina University (ECU) has almost 39% of the E-Learning programs

offered by the UNC System. There are three campuses, Elizabeth City State University (ECSU), NC School for the Arts and the University of North Carolina-Asheville (UNC-A) which offers no E-Learning degree or certificate programs. ECSU does offer E-Learning courses to supplement traditional on-campus programs.

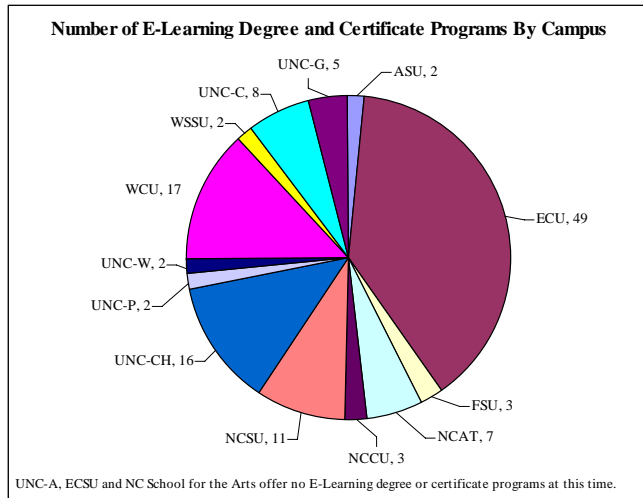
There are different levels of degrees and certificates a student can obtain through E-Learning programs offered at the campuses of UNC System. Table 1 reveals the majority of the programs are at the Master's level.

TABLE 1
E-Learning Degrees/Certificates

<u>Degree</u>	<u>Number</u>	<u>Precent</u>
Doctoral	1	1%
Master's	55	43%
Baccalaureate	32	25%
Certificate*	39	31%
Total	127	

* Includes certification of advance study, other certificate, and teacher licensure

CHART 1



It appears the emphasis for E-Learning degrees and certificates is education and health professions. These two areas of study represent approximately 60% of the programs offered through E-Learning as shown in Chart 2. Table 2, on the next page, breaks down the area of study by the number of programs and degrees offered at each campus.

CHART 2

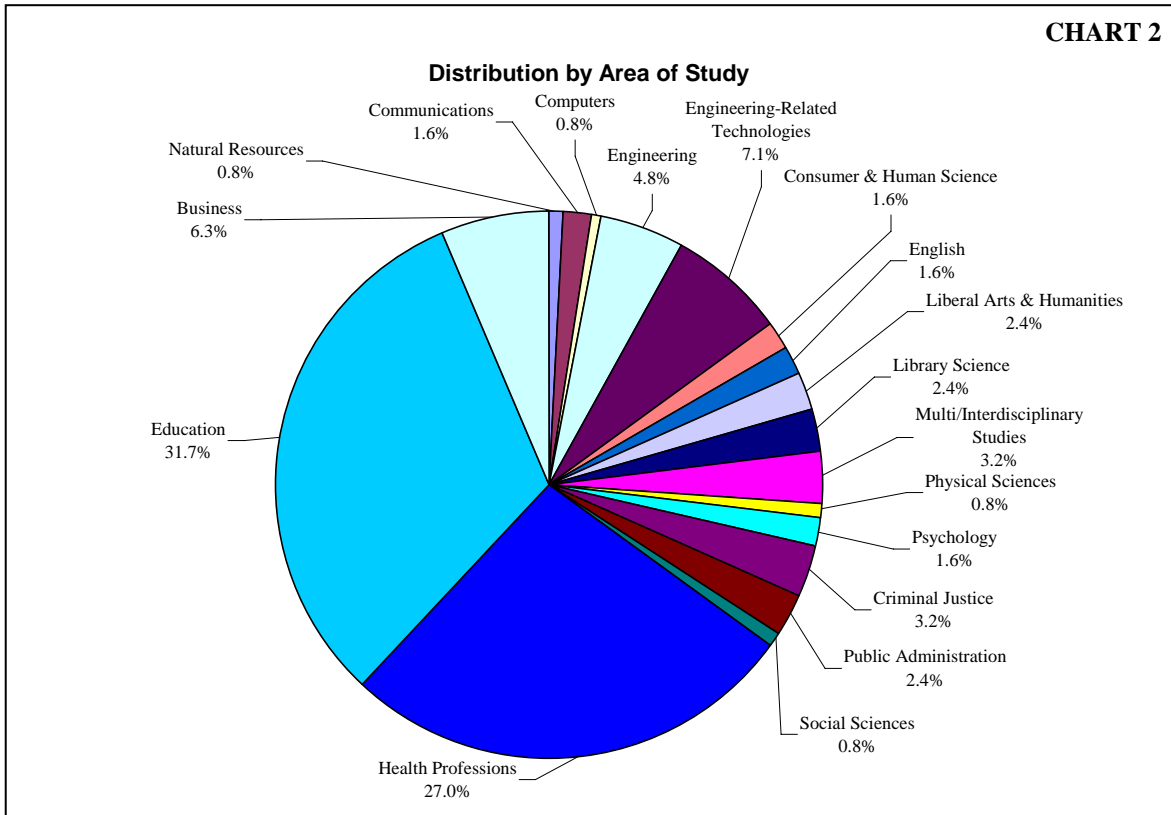


TABLE 2
Number of Programs within an Area of Study
By Degree and Campus

Area of Study	Degree	ASU	ECU	FSU	NCAT	NCCU	NCSU	UNC-C	UNC-CH	UNC-G	UNC-P	UNC-W	WCU	WSSU	Total
Conservation and Renewable Natural Resources	Master's						1								1
Communications and Journalism	Baccalaureate		1												1
	Certificate*								1						1
Computer and Information Sciences	Master's						1								1
Education	Baccalaureate		1		2								1		4
	Certificate*		9					3	1	1			3		17
	Master's	1	9		3		3						3		19
Engineering	Master's						6								6
Engineering-Related Technologies	Baccalaureate		2		1			1							4
	Certificate*		3												3
	Master's		1										1		2
Family and Consumer Science/ Human Science	Baccalaureate					1									1
	Master's		1												1
English Language and Literature	Certificate*		1												1
	Master's		1												1
Liberal Arts and Sciences, General Studies and Humanities	Baccalaureate									1				1	2
	Master's									1					1
Library Science	Master's		1			2									3
Multi/Interdisciplinary Studies	Certificate*	1	2										1		4
	Master's												1		1
Physical Sciences	Master's											1			1
Psychology	Baccalaureate			1											1
	Master's		1												1
Corrections and Criminal Justice	Baccalaureate			1				1					1		3
	Master's		1												1
Public Administration and Services Professions	Baccalaureate												1		1
	Master's									1	1				2
Social Sciences	Baccalaureate			1											1
Health Professions and Related Clinical Sciences	Baccalaureate		3		1			1	1			1	2	1	10
	Certificate*		4					1	8						13
	Doctoral								1						1
	Master's		4					1	4	1					10
Business, Management, and Marketing	Baccalaureate		3								1				4
	Master's		1										3		4
Total		2	49	3	7	3	11	8	16	5	2	2	17	2	127

* Includes certification of advance study, other certificate, and teacher licensure areas

In addition to programs offered at each campus, most campuses provide E-Learning courses to supplement traditional on-campus or remote location programs. As of December 31, 2005 there were 977 courses offered by 14 campuses of the UNC System. Appendix B lists the courses that are not related to an E-Learning degree or certificate program. Eight campuses have established a consortium offering courses for college credit through the Friday Center for Continuing Education at the University of North Carolina-Chapel Hill (UNC-CH). An individual does not have to apply for admission to UNC-CH to register for these courses and the courses are self-paced. See Appendix C for a detailed list of E-Learning courses offered by each campus through the Friday Center.

DUPLICATION OF E-LEARNING (ONLINE) PROGRAMS AND COURSES

E-LEARNING PROGRAMS

To identify duplication in E-Learning programs at the campuses of the UNC System, a comparison was conducted to match the classification of instructional program number (CIP), the degree level offered at each campus, a review of the program description and course requirements. There are 127 degree/certificate programs offered at 13 campuses. The analysis revealed a low duplication rate of 6.3%. There were eight programs offered at more than one campus as shown in Table 3. Of the duplicate programs, approximately 88% are related to teaching and nursing which are critical need areas in North Carolina because of the extreme shortages in these professions.

Although duplication in programs occur, some of these programs may have different curricular emphasis and/or specialty concentrations. However, it should be noted that all of these programs were developed collaboratively between the campuses offering the program to maximize resources during the development phase. This process of collaboration facilitates resource sharing which should aid in the development of the best statewide E-Learning programs possible. In addition to sharing mutually developed material, some campuses allow students to obtain credit for E-Learning courses taken at other campuses, even emphasizing enrolling at other campuses with mutually developed programs. As shown in Table 3, sharing course material occurred with 100% of these programs while sharing students occurs with 50% of these programs.

TABLE 3
E-Learning Program Duplications

CIP	Academic Program	Degree	ASU	ECU	NCAT	NCCU	NCSU	UNC-C	UNC-CH	UNC-W	WCU	Collaborative Efforts*
13.0501	Instructional Technology	Master's	X	X	X							M & S
13.1301	Agricultural Education	Master's			X		X					M & S
25.0101	Library Science	Master's		X		X						M & S
30.1101	Gerontology	Certificate	X								X	M & S
51.1601	Nursing	Baccalaureate		X							X	M
51.1601	Nursing (RN to BSN)	Baccalaureate						X	X	X		M
51.1699	Nursing Education	Certificate		X				X				M
51.1699	Nursing	Master's		X				X				M

* M = Materials S = Students

E-LEARNING COURSES

An analysis of 977 courses that supplement traditional on-campus or remote location programs (courses that are not part of an online degree/certificate program) was conducted to identify any duplication. The analysis included utilizing the “transfer course equivalencies” located on some campuses website and a review of the course descriptions. Of the 977 courses offered at 14 campuses, the analysis revealed a very low duplication rate of 1.5%. Table 4 on the next page, shows the 15 courses that are offered at more than one campus.

**TABLE 4
E-Learning Course Duplication**

Course Title	ECU	ECSU	NCAT	NSCU	UNC-C	UNC-CH	UNC-P	UNC-W	WCU	WSSU
American National Government							X	X		
Art Appreciation	X	X					X			
Educational Psychology				X			X			
Elementary Spanish I			X	X						
General Physics	X					X				
General Psychology		X				X				
History of North Carolina		X					X			
Human Behavior and the Social Environment	X						X			
Introduction to Computers					X		X			
Descriptive Astronomy	X					X				
Introduction to Sociology	X							X		
Modern Middle East				X		X				
Music Appreciation	X					X				
Principles of Biology							X		X	
General Chemistry							X		X	

LEADER COURSES AND PROGRAMS AT CAMPUSES IN A PARTICULAR AREA OF STUDY

Appendix A lists the 127 programs and Appendix B lists 977 courses offered at 14 campuses. Since there is very little duplication in E-Learning, the existing programs and courses offered at each campus could be considered the leaders at this time. However, another way to identify leader courses and programs is by the method used to develop and/or offer program courses.

Some campuses have established formal consortiums or informal alliances to share resources and/or students. Group members work together to develop E-Learning courses and programs which can be used by all members of the group (all E-Learning programs must be approved by the UNC System prior to offering). In addition, some programs allow students to take courses offered by other member campuses which provide greater opportunities for course enrollment in high demand programs. The courses and programs developed by these groups could be considered leaders because of the innovative process used to develop the best possible programs, minimizing duplicate efforts, maximizing resources and adding flexibility for students by allowing students to obtain credit when taking courses offered by other member campuses. Table 5 on the next page, shows the consortiums or informal alliances formed by the UNC campuses.

TABLE 5
Consortiums, Alliances, and Collaboration

Programs	Members	Consortiums or Alliances and Purpose
Educational Technology Program	ASU ECU NCAT UNC-W WCU	Educational Technology Consortium of North Carolina is a formal group to facilitate the sharing of courses, facilities, programs, faculty, and technologies to enhance and expand Education Technology Studies.
Gerontology Program	ASU ECSU ECU UNC-A UNC-G UNC-CH UNC-C UNC-W WSSU WCU	North Carolina Gerontology Consortium is a formal group to enhance education and training in gerontology for undergraduate and graduate students and the workforce serving older adults in NC. <ol style="list-style-type: none"> 1. Expand the range of courses available to students. 2. Improve access to courses. 3. Expand the network of scholars. 4. Provide an organizational structure to coordinate curricula and to improve teaching skills. 5. Use resources more cost-effectively through inter-institutional faculty collaboration.
German Study Program	ASU ECU NCSU UNC-A UNC-G UNC W WCU	German Study Consortium is a formal group that links participating UNC institutions to facilitate the sharing of teaching and learning resources to enhance German Studies across the University of North Carolina System. The consortium offers a broad array of German Studies courses in the language, literature, and culture of the German-speaking countries taught by specialists in the field. The primary focus is on the sharing of upper-level German classes offered each semester on the North Carolina Information Superhighway.
Agricultural Education Program	NCAT NCSU	Informal group to develop a cooperative program through collaboration of the program design and implementation. Reduce duplication by working together to develop core curriculum with some campus unique courses. Students are encouraged to take classes from both campuses.
Library Science Program	ECU NCCU	Informal group to develop a cooperative program through collaboration of the program design and implementation. Reduce duplication by working together to develop core curriculum with some campus unique courses. Students are encouraged to take classes from both campuses.
Nursing and Nursing Education Program	ECU UNC-C	Informal group that shares mutually developed courses for the nursing programs.
Nursing Program	ECU WCU	Informal group that shares mutually developed courses for the nursing program.
Nursing Program (RN to BSN)	UNC-C UNC-CH UNC-W	Informal group that shares mutually developed courses for the nursing program.
See Appendix C for a list of Courses	ASU ECU ECSU NCSU UNC-CH UNC-G WCU WSSU	Self-Pace Course Credit Programs Consortium a formal group that develops self-paced courses, developed by individuals campuses but offered on-line at a central location, the Friday Center at UNC-CH. Anyone can enroll since there are no enrollment requirements.

COST OF DEVELOPING E-LEARNING (ONLINE) COURSES

A random sample¹ to identify development costs was taken from 413 E-Learning courses developed by 13 campuses over the last calendar year. Forty courses were randomly selected to collect direct and indirect costs. Table 6 shows the number of courses selected at each campus and the average cost to develop an E-Learning course. The overall average cost is \$7,742 and the average cost by campus ranges from \$1,812 to \$16,647. Some reasons for the cost differences include subject matter, the uniqueness of a course, age of a course, method used to pay instructors and the use of consultants or experts. The University of North Carolina-Greensboro (UNC-G) has the highest average cost per course due to the number of instructor hours (360) and information technology (IT) staff hours (250) needed to develop a course. North Carolina State University (NCSU) has the lowest average cost at \$1,812. The low cost is due to only paying instructors \$1,500 per course and incurring no IT staff costs. See Appendix D for details on data collected for each course in the sample.

TABLE 6
Average Cost by Campus

Campus	Number of Courses in Sample	Average Development Cost
NCSU	5	\$1,812
NC A&T	1	\$2,228
ECU	5	\$2,925
WCU	6	\$3,203
UNC-C	1	\$5,640
NCCU	2	\$5,964
UNC-W	2	\$7,624
FSU	5	\$8,039
WSSU	2	\$13,551
UNC-CH	8	\$14,310
UNC-G	3	\$16,647
Average	40	\$7,742

TABLE 7
Average Cost by Area of Study

Area of Study	Number of Courses in Sample	Average Development Cost
Computer and Information System	3	\$1,804
Engineering	2	\$1,825
English Language	1	\$2,228
Public Administration & Service Professional	1	\$3,183
Multi/Interdisciplinary Studies	2	\$3,245
Education	15	\$5,335
Foreign Languages	1	\$5,640
Mathematics	1	\$5,964
Correction and Criminal Justice	2	\$6,831
Psychology	1	\$7,479
Social Services	1	\$7,479
Liberal Arts and Science/Human Services	5	\$15,408
Health Professions & Related Clinical Sciences	5	\$18,281
Average Costs	40	\$7,742

Table 7 shows the average cost to develop courses by the area of study. The Health Professions area averages the highest cost at \$18,281 which is more the twice the overall average cost to develop courses. The most costly individual courses to develop are Public Health and Epidemiology courses which are being taught by UNC-CH. On the other hand, Computer and Information Systems courses, taught at NCSU, have the lowest average cost at \$1,804, about a fourth of the overall average development cost of \$7,742. Details of cost development can be found in Appendix D.

The most expensive component related to developing E-Learning courses is the instructor and/or consultant costs. Some campuses pay a stipend (flat fee) to instructors while others pay instructors by the hour when developing an E-Learning course. In the sample, the method for paying instructors was split evenly with 50% being paid stipends and 50% paid by the hour. Table 8 shows data related to instructor's compensation (both stipend and hourly) including development hours, the cost of using a consultant or expert, and the total cost associated with developing an E-Learning course. The actual course development cost reported in the sample ranged from a low of \$1,793 at NCSU for a computer course to a high

TABLE 8
Payment Method and Cost Ranges

		Low	High	Average	
Instructor Payment Method	Hourly Rate (20 courses)*	Hours	45	360	165
		Cost per Hour	\$13.89	\$62.50	\$39.30
		Total Cost	\$1,740	\$14,790	\$5,950
	Stipend (20 courses)*	\$1,500	\$5,000	\$2,588	
Consultant or Expert Costs (3 courses)		\$8,750	\$20,310	\$15,020	
Total Development Cost (direct and indirect)		\$1,793	\$28,382	\$7,742	

* Does not include fringe benefits

¹ The sample was drawn to achieve a 95% confidence level with a +/- 5% upper error limit with an expected error rate of 3%. Sample size was based on the total number of E-Learning courses developed during 2005 calendar year.

of \$28,382 at UNC-CH for an epidemiology courses. The high cost of the epidemiology course is attributed to the use of the expert in the area of field epidemiology which cost \$20,310.

TABLE 9
E-Learning Versus On Campus Costs

Course	Average Development Cost	Average Delivery Cost*
E-Learning	\$7,742	\$30,733
On Campus*	\$2,331	\$23,784
Percent Difference	232%	29%

* Data provided by the UNC System which was collected for the *Report on Expanding Access to Higher Education Through State-Funded Distance Learning, May 2006.*

As mentioned earlier, the average E-Learning development cost is \$7,742. A comparison, as shown in Table 9, revealed this cost is more than twice the cost of developing a course taught on-campus². This occurs with course delivery but to a much lesser degree, the cost to deliver an E-Learning course is 29% higher than the cost of teaching an on-campus course. Some reasons for the higher costs are instructor salary and time related to developing and teaching the E-Learning course.

CAMPUSES BEST SUITED TO OFFER A PARTICULAR COURSE OR PROGRAM OF STUDY

There are several factors involved in analyzing and determining which campus may be best suited to offer a particular course or program of study. Factors to consider are:

- The mission of the campus,
- High quality or innovative programs within a department or school,
- The size and successfulness of existing programs,
- Qualified academic staff to develop online courses, and
- Sufficient online academic and technology support services for program delivery.

These factors listed above are internal factors to determine which campus may be best suited to offer a particular course or program of study. External factors should also be considered, such as demand for a program or shortages in a profession. Enrollment data would provide information on programs in high demand and needs assessments could identify critical need areas or professions with shortages. It is a well know fact that nurses and teachers are in high demand and would be considered critical need areas.

Selecting one campus to offer a specific course or a program of study may not be in the best interest of the State or students. E-Learning courses, just as on-campus courses, are limited to a specified number of students that can enroll for a course or be admitted into a program. ECU and UNC-CH may be best suited to offer E-Learning degree programs in nursing since they have the largest health science centers. However, it would not be prudent to limit E-Learning nursing programs to only these two campuses since there is an extreme shortage of nurses throughout the State and the more programs offered, the better opportunity there are for students to gain entry into this high demand academic program.

Instead of specifying a campus best suited to offer a particular course or program, the State and students could benefit more if the campuses of the UNC System collaborated to pool resources when developing programs assuring the best possible E-Learning programs are being established. By sharing course materials between campuses, consistency would occur and greater access would be gained into high demand programs and courses, such as nursing. As shown in Table 5 on page 6, collaboration already exists with formal and informal efforts. The collaboration is sporadic and not an across the board endeavor. In addition, the UNC System is currently coordinating an initiative to develop E-Learning programs for teacher education degrees in middle grades and secondary mathematics and sciences using a collaborative method. Once these programs are developed they will be shared with all campuses of the UNC System.

² Data provided by the UNC System which was collected for the *Report on Expanding Access to Higher Education Through State-Funded Distance Learning, May 2006.*

A good source the UNC System could use to further its efforts with resource sharing is the Virtual Learning Community³ developed by the North Carolina Community College System. The Virtual Learning Community is a collaborative effort of all North Carolina's Community Colleges to increase the quality and availability of online learning and support services. The UNC System has incorporated some of these features on its own website but does not include a bank of developed courses that can be downloaded, used, and evaluated by any member of the system.

If limiting E-Learning programs to one campus is the goal, then the factors listed above could be used to make this determination. However, this limitation would not be beneficial to students attempting to gain access to high demand programs and would not allow for pooling experts when developing courses. Instead of limiting program offerings, the UNC System should move toward increasing collaborative efforts. This collaborative effort could incorporate improvements with course development, course sharing, training, communication, and online student services. Student should be allowed to obtain credit for taking E-Learning courses at other campuses which would create a seamless system. Some benefits to increasing collaborative efforts are:

- Improve efficiency by reducing any duplicate efforts among campuses,
- Maximize resources to develop the best possible programs by pooling instructional expertise,
- Ensure consistency in programs offered at multiple campuses, and
- Provide more opportunities to students wanting to gain access into high demand programs and courses.

ACKNOWLEDGEMENT

OSBM wishes to express its appreciation to the staff and employees of the North Carolina University System and all the institutions within the North Carolina University System, for their cooperation during the performance of this study.

³ The Virtual Learning Community website is located at http://www.ncccs.cc.nc.us/Distance_Learning/index.html.

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APPENDIX A

E-LEARNING PROGRAMS
AS OF DECEMBER 31, 2005

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NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX A
E-LEARNING PROGRAMS

Campus	CIP	Area of Study	Academic Program	Degree
ASU	13.0501	Education	New Media and Global Education	Master's
ASU	30.1101	Multi/Interdisciplinary Studies	Gerontology	Certificate
ECU	9.0402	Communications	Communication	Baccalaureate
ECU	13.0401	Education	Educational Leadership and Supervision	Certificate
ECU	13.0407	Education	Community College Teaching	Certificate
ECU	13.0501	Education	Computers in Education	Certificate
ECU	13.0501	Education	Distance Learning	Certificate
ECU	13.0501	Education	Performance Improvement	Certificate
ECU	13.0501	Education	Virtual Reality in Education and Training	Certificate
ECU	13.0501	Education	Instructional Technology	Master's
ECU	13.0501	Education	Instructional Technology	Master's
ECU	13.1099	Education	Assistive technology	Certificate
ECU	13.1099	Education	Special Education	Master's
ECU	13.1209	Education	Birth-Kindergarten Teacher Education	Baccalaureate
ECU	13.1209	Education	Early Childhood	Certificate
ECU	13.1302	Education	Art Education	Master's
ECU	13.1304	Education	Driver's Education	Certificate
ECU	13.1307	Education	Health Education	Master's
ECU	13.1312	Education	Music education	Master's
ECU	13.1316	Education	Science Education	Master's
ECU	13.1319	Education	Technical Teacher Education (Vocational)	Master's
ECU	13.1399	Education	Business Education	Master's
ECU	15.0603	Engineering -Related Technologies	Computer Network Professional	Certificate
ECU	15.0603	Engineering -Related Technologies	Information Assurance	Certificate
ECU	15.0603	Engineering -Related Technologies	Website Developer	Certificate
ECU	15.0612	Engineering -Related Technologies	Industrial Technology	Baccalaureate
ECU	15.0612	Engineering -Related Technologies	Industrial Technology	Master's
ECU	15.1201	Engineering -Related Technologies	Information and Computer Technology	Baccalaureate
ECU	19.0501	Family & Consumer Sci./ Human Science	Nutrition & Dietetics	Master's
ECU	23.0101	English Language and Literature	English	Master's
ECU	23.1101	English Language and Literature	Professional Communication	Certificate
ECU	25.0101	Library Science	Library Science	Master's
ECU	30.0501	Multi/Interdisciplinary Studies	Security Studies	Certificate
ECU	30.9999	Multi/Interdisciplinary Studies	Multicultural Literature	Certificate
ECU	42.0101	Psychology	Psychology	Master's
ECU	43.0104	Corrections and Criminal Justice	Criminal Justice Studies	Master's
ECU	51.0204	Health Professional and Related Science	Speech, Language, and Auditory Pathology	Master's
ECU	51.0701	Health Professional and Related Science	Health Services Management	Baccalaureate
ECU	51.0706	Health Professional and Related Science	Health Information Management	Baccalaureate
ECU	51.1601	Health Professional and Related Science	Nursing	Baccalaureate
ECU	51.1605	Health Professional and Related Science	Family Nurse Practitioner	Certificate
ECU	51.1606	Health Professional and Related Science	Neonatal Nurse Practitioner	Certificate
ECU	51.1607	Health Professional and Related Science	Nurse Midwifery	Certificate
ECU	51.1699	Health Professional and Related Science	Nursing Education	Certificate
ECU	51.1699	Health Professional and Related Science	Nursing	Master's
ECU	51.2206	Health Professional and Related Science	Occupational Health & Industrial Hygiene	Master's
ECU	51.2207	Health Professional and Related Science	Health Education	Master's
ECU	52.0201	Business Mgmt & Adm. Services	Business Administration	Master's

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX A
E-LEARNING PROGRAMS

Campus	CIP	Area of Study	Academic Program	Degree
ECU	52.0407	Business Mgmt & Adm. Services	Information Technologies	Baccalaureate
ECU	52.0801	Business Mgmt & Adm. Services	Business Administration	Baccalaureate
ECU	52.0904	Business Mgmt & Adm. Services	Hospitality Management	Baccalaureate
FSU	42.0101	Psychology	Psychology	Baccalaureate
FSU	43.0107	Corrections and Criminal Justice	Criminal Justice	Baccalaureate
FSU	45.1101	Social Science	Sociology (Under development)	Baccalaureate
NCAT	13.0501	Education	Instructional Technology	Master's
NCAT	13.1301	Education	Agricultural Education	Baccalaureate
NCAT	13.1301	Education	Agricultural Education	Master's
NCAT	13.1303	Education	Business Education	Baccalaureate
NCAT	13.1309	Education	Technology Education	Master's
NCAT	15.0303	Engineering -Related Technologies	Electronics Technology	Baccalaureate
NCAT	51.2206	Health Professional and Related Science	Occupational Health & Industrial Hygiene	Baccalaureate
NCCU	19	Family & Consumer Sci./ Human Science	Human Sciences (Birth to Kindergarten Program)	Baccalaureate
NCCU	25.0101	Library Science	Library Science (School Media Coordinator)	Master's
NCCU	25.0101	Library Science	Library Science (Academic, Public, or Special Librarian)	Master's
NCSU	3.0509	Conservation and Resuewable Natural Resources	Wood Science & Wood Product/Pulp & Paper Technology	Master's
NCSU	11.0701	Computer and Inforamtion Sciences	Computer Science	Master's
NCSU	13.0301	Education	Curriculum and Instruction: Business & Marketing	Master's
NCSU	13.0403	Education	Adult & Continuing Education: Training & Development	Master's
NCSU	13.1301	Education	Agricultural Teacher Education	Master's
NCSU	14.0101	Engineering	Engineering	Master's
NCSU	14.0201	Engineering	Aerospace, Aeronautical & Astronautical Engineering	Master's
NCSU	14.0701	Engineering	Chemical Engineering	Master's
NCSU	14.0801	Engineering	Civil Engineering	Master's
NCSU	14.1901	Engineering	Mechanical Engineering	Master's
NCSU	14.2801	Engineering	Textile Science and Engineering	Master's
UNC-C	13.0401	Education	Middle-Secondary Lateral Entry	Certificate
UNC-C	13.1004	Education	Special Education, Academically or Intellectually Gifted	Certificate
UNC-C	13.1209	Education	Child & Family Development	Certificate
UNC-C	15.0303	Engineering -Related Technologies	Engineering Technologies Electrical	Baccalaureate
UNC-C	43.0202	Corrections and Criminal Justice	Engineering Technologies Fire Safety	Baccalaureate
UNC-C	51.1601	Health Professional and Related Science	Nursing (RN to BSN)	Baccalaureate
UNC-C	51.1699	Health Professional and Related Science	Nurse Education	Certificate
UNC-C	51.1699	Health Professional and Related Science	Nursing	Master's
UNC-CH	9.0102	Communications	Technology and Communication	Certificate
UNC-CH	13.1315	Education	Reading Specialist	Certificate
UNC-CH	51	Health Professional and Related Science	Molecular Diagnostic Science	Certificate
UNC-CH	51.0203	Health Professional and Related Science	First Years - Auditory Learning in Young Children with Hearing Loss	Certificate
UNC-CH	51.0701	Health Professional and Related Science	Public Health Leadership (DrPH)	Doctoral
UNC-CH	51.0701	Health Professional and Related Science	Public Health Executive(MPH)	Master's
UNC-CH	51.0701	Health Professional and Related Science	Public Health Executive (MHA)	Master's
UNC-CH	51.0907	Health Professional and Related Science	Radiologist Assistant	Certificate

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX A
E-LEARNING PROGRAMS

Campus	CIP	Area of Study	Academic Program	Degree
UNC-CH	51.2201	Health Professional and Related Science	Core Public Health Concepts:	Certificate
UNC-CH	51.2201	Health Professional and Related Science	Community Preparedness & Disaster Management	Certificate
UNC-CH	51.2201	Health Professional and Related Science	Field Epidemiology (Intermediate)	Certificate
UNC-CH	51.1601	Health Professional and Related Science	Nursing (RN to BSN)	Baccalaureate
UNC-CH	51.2201	Health Professional and Related Science	Health Care Management (Intermediate)	Certificate
UNC-CH	51.2201	Health Professional and Related Science	Occupational Health Nursing (MPH)	Master's
UNC-CH	51.2201	Health Professional and Related Science	Public Health Leadership (MPH)	Master's
UNC-CH	51.2308	Health Professional and Related Science	Physical Therapy (DPT)	Certificate
UNC-G	13.1101	Education	School Counseling	Certificate
UNC-G	24.0101	Liberal Arts and Sci., General Study & Humanities	Liberal Studies	Baccalaureate
UNC-G	24.0101	Liberal Arts and Sci., General Study & Humanities	Liberal Studies	Master's
UNC-G	44.0201	Public Adm. & Social Services Professions	Conflict Resolution	Master's
UNC-G	51.1608	Health Professional and Related Science	Nursing	Master's
UNC-P	44.0401	Public Adm. & Social Services Professions	Public Administration	Master's
UNC-P	52.0201	Business Mgmt & Adm. Services	Business Administration	Baccalaureate
UNC-W	40.0501	Physical Science	Chemistry	Master's
UNC-W	51.1601	Health Professional and Related Science	Nursing (RN to BSN)	Baccalaureate
WCU	13	Education	Special Education: Distance	Baccalaureate
WCU	13	Education	Special Education	Certificate
WCU	13	Education	Special Education Adapted Curriculum	Certificate
WCU	13.0401	Education	NC TEACH Lateral Entry	Certificate
WCU	13.0401	Education	NC TEACH Lateral Entry	Master's
WCU	13.0409	Education	School Administration	Master's
WCU	13.1299	Education	Special Education MAT	Master's
WCU	15.1001	Engineering -Related Technologies	Construction Management	Master's
WCU	30.1101	Multi/Interdisciplinary Studies	Gerontology	Certificate
WCU	30.1101	Multi/Interdisciplinary Studies	Gerontology	Master's
WCU	43.0104	Corrections and Criminal Justice	Criminal Justice	Baccalaureate
WCU	44.0401	Public Adm. & Social Services Professions	Emergency Management	Baccalaureate
WCU	51.0904	Health Professional and Related Science	Emergency Medical Care	Baccalaureate
WCU	51.1601	Health Professional and Related Science	Nursing	Baccalaureate
WCU	52.0299	Business Mgmt & Adm. Services	Project Management	Master's
WCU	52.1001	Business Mgmt & Adm. Services	Human Resources Management	Master's
WCU	52.1499	Business Mgmt & Adm. Services	Entrepreneurship	Master's
WSSU	24.0102	Liberal Arts and Sci., General Study & Humanities	Interdisciplinary Studies	Baccalaureate
WSSU	51.1005	Health Prof. and Related Science	Clinical Laboratory Science	Baccalaureate

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APPENDIX B

E-LEARNING COURSES
AS OF DECEMBER 31, 2005

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NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
ECSU	GE141DL	World Civilization II
ECSU	EDUC201DL	Foundation Education
ECSU	EDUC203DL	Introduction to Computer Instruction
ECSU	EDUC349DL	Classroom Management Techniques
ECSU	EDUC479DL	Multi-Cultural Education
ECSU	HLTH460DL	Contemporary Health Education
ECSU	READ310DL	Elementary Reading and Language Arts Instruction
ECSU	READ320DL	Technical Reading in Content Areas
ECSU	SPED340DL	Intro to Learning Disabilities
ECSU	SPED346DL	Intro to Special Education Laws
ECSU	ENGL302DL	English Literature II
ECSU	ENGL317DL	Advanced Comostion
ECSU	ENGL319DL	Children's Lit/Elem Curr K-12
ECSU	ENGL401DL	Technical Writing
ECSU	GE103DL	Composition and Literature II
ECSU	GE122DL	Freshman Seminar
ECSU	GE130DL	Art Appreciation
ECSU	GE140DL	World Civilization I
ECSU	GE155	Principles of Biological Sciences
ECSU	GE201DL	World Literature I
ECSU	GE202	World Literature II
ECSU	STAT251DL	Basic Statistics I
ECSU	PSY212DL	General Psychology
ECSU	PSY302DL	Human Development
ECSU	PSY309DL	Education Psychology
ECSU	CJ204DL	Institutional Corrections
ECSU	CJ210DL	Juvenile Justice System
ECSU	CJ218DL	Police Community Relations
ECSU	CJ310DL	American Constitution Law
ECSU	CJ312DL	Criminal Evidence
ECSU	CJ314DL	Criminal Procedures
ECSU	GEOG308DL	Weather and Climate
ECSU	POLS301DL	American National Government
ECSU	POLS307DL	American Political Ideas
ECSU	POLS484DL	International Organization
ECSU	AVI460DL	Aviation Capstone (internship)
ECSU	BMIS436DL	Management Information System
ECSU	BMIS470DL	Information System for Planned Control
ECSU	BUAD200DL	Business Communications
ECSU	BUAD241DL	Business Law I
ECSU	BUAD380DL	Business Support Services
ECSU	MNGT221DL	Principles of Management
ECSU	MNGT321DL	Human Resource Management
ECSU	HIST376	History of North Carolina
ECU	ANTH2200	Intro to Cultural Anth
ECU	ANTH5015	Advanced Ethnographic Methods and Theory
ECU	CSCI4530	Computer Networks and the Internet
ECU	CSCI6130	Networking and Telecommunication
ECU	MIS2223	Introduction to Computer
ECU	ADED6001	Special Topics Seminar
ECU	ADED6003	Special Topics Seminar
ECU	ADED6307	Pro Writing Grants/Ctrct
ECU	ADED6454	Educational Gerontology
ECU	ADED6461	Introduction to Training and Development
ECU	ADED6481	Development of Adult Education Programs
ECU	ADED6484	Org & Admin Adullt Ed
ECU	ADED6491	Research Problems in Adult Education
ECU	ADED6492	Dir Rdgs Adult Com Ed
ECU	ADED6493	Directed Readings in Adult and Community Education

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
ECU	ART4323	Art in Secondary School
ECU	ART5323	Art in Secondary School
ECU	ART5851	Art in the Elementary School
ECU	BIOS1500	Introduction to Biostatistics
ECU	BVTE2123	Erly Exper Prosp Teacher
ECU	CDFR3321	Infant and Toddler Curriculum
ECU	CDFR4001	Community Services Internship
ECU	CDFR4306	Directing Behavior and Development of Children
ECU	CDFR4410	Professional Seminar
ECU	CDFR4415	Child Life Internship
ECU	CDFR4521	Directed Readings
ECU	CDFR5006	Special Topics in Child Development and Family Relations
ECU	CDFR6980	Internship for Child-Family Specialist
ECU	COAD5370	Introduction to Counseling and Human Services
ECU	COAD6358	Classroom Assessment and Measurement
ECU	COAD6370	Counseling Children and Adolescents
ECU	COAD6406	Counseling in Schools
ECU	COAD6412	Developmental Counseling and Learning: A Life-Span Approach
ECU	COAD6414	Family Appr Prof Counseling
ECU	COAD6415	Agency and Community Counseling
ECU	COAD6483	Counseling Concerns and Counseling Strategies
ECU	COAD6992	Counseling Internship
ECU	COAD7408	Professional, Legal, and Ethical Issues in Counseling
ECU	EDTC7120	Learning Theories for Instructional Development
ECU	EDTC7400	Doct Sem Instr Tech
ECU	EDTC7983	Directed Independent Study
ECU	EDUC6480	Introducation to Resrch
ECU	EDUC6551	Prob & Issues in Ed
ECU	EDUC7001	Advanced Research and Evaluation
ECU	ENED3815	Composition Instruction in Grades 9-12
ECU	ENED6630	Studies in the Process of Composition
ECU	ENGL4710	Teaching English as a Second Language: Theories and Principles
ECU	ENGL4720	Applied Linguistics for Language Teachers
ECU	ENGL4950	Literature for Children
ECU	FACS4317	Curriculum Development
ECU	HIED6510	Issues & Topic Soc Stud Ed
ECU	HLTH4605	Community Strategies for Health Education
ECU	HLTH4991	Health Education and Promotion Internship
ECU	LEED8015	Doctoral Seminar in Human Resource Development
ECU	LEED8020	Politics and Power in Education
ECU	LEED8030	Educational Planning
ECU	LEED8035	Doctoral Seminar in Educational Leadership
ECU	LEED8040	Policy Development and Analysis
ECU	LEED8047	Student Development in Higher Education
ECU	LEED8050	Ethics in Educational Leadership
ECU	LEED8055	Doctoral Seminar in Curriculum and Instruction
ECU	LEED8056	Doctoral Seminar in Curriculum Theory and Practice in Higher Education
ECU	LEED8060	Program Evaluation
ECU	MATE3218	Teaching Mathematics in Special Education
ECU	MATE3223	Teaching Mathematics in the Elementary Grades K-6
ECU	MATE5251	Modern Mathematics for Elementary Teachers I
ECU	MATE5264	Modern Mathematics for Junior High School Teachers
ECU	MATE6200	Mathematics Assessment for the Classroom Teacher
ECU	MATE6206	Leadership in Mathematics Education
ECU	MATE6211	Rsch Math Educ
ECU	MATE6223	Current Topics in Mathematics Education
ECU	MATE6228	Leadership in Mathematics
ECU	MATE6265	Teaching in Math Educ
ECU	MATE6341	Teaching and Learning of Geometry
ECU	MATE6361	Measure Curriculum

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
ECU	MATE6391	Teaching with Mathematical Modeling
ECU	MATE6400	Capstone Project in Mathematics Education
ECU	MIDG2123	Early Experiences for the Prospective Teacher
ECU	MIDG3001	The Middle Grades
ECU	MIDG3022	Instructional Models and Strategies for Middle Grades
ECU	MIDG4001	Organization, Management, and Motivation in the Middle Grades Classroom
ECU	MIDG5993	Read In Middle Grade Ed
ECU	MIDG6000	Professional Development, Issues and Trends in Middle Grades Education
ECU	MIDG6100	Young Adolescents, Schools, and Community
ECU	MIDG6200	Middle Grade Curr Dev Pub School
ECU	MIDG6300	Adv Strat/Assess Middle Grade
ECU	MIDG6401	Middle Grade Product Document
ECU	SCIE4000	Biological Science Practicum for Secondary Teachers
ECU	SCIE4010	Earth Science Practicum for Secondary Teachers
ECU	SCIE5010	Apl Comp Teach Physiscal Science
ECU	TCHR6010	The Learner and the Learning Environment
ECU	TCHR6011	The Teacher and the Teaching Experience
ECU	TCHR6020	MAT Classroom Management
ECU	TCHR6030	Literacy Development in the Content Area Classroom
ECU	TECH6430	Computer Concepts and Applications for Career and Technical Educators
ECU	CMGT6660	Construction Control Systems
ECU	CMGT6664	Advanced Cost Estimating/Cost Analysis
ECU	DTEC6815	NETWORK MEDIA SERVICES
ECU	DTEC6825	Dynamic Web Services
ECU	DTEC6835	Enterprise Web Services
ECU	DTEC6845	WEB SITE DEVELOPMENT
ECU	DTEC6860	SPECIAL TOPIC IN TECH
ECU	DTEC6862	SPECIAL TOPIC IN TECH
ECU	ELEC3300	Information Technology Project Management
ECU	ITEC2090	Electromechanical Systems
ECU	ITEC3000	INTERNET TOOLS TECH
ECU	ITEC3100	Internship in Industrial Technology
ECU	ITEC5100	Internship in Industrial Technology
ECU	ITEC6010	Readings in Industry
ECU	ITEC6100	Practicum in Industrial Technology
ECU	ITEC6112	Analytical Studies and Planned Experimentation in Industry
ECU	ITEC6295	Digital Communications for Technology
ECU	ITEC6400	RESEARCH IN IND TECH
ECU	ITEC8100	Research Internship
ECU	ITEC8101	Research Internship
ECU	ITEC9000	Dissertation
ECU	MANF2020	Industrial Materials and Processes
ECU	MANF3800	Cost and Capital Project Analysis
ECU	MANF5504	Independent Study: Manufacturing
ECU	ENGL2000	Interpreting Literature
ECU	ENGL2100	Major British Writers
ECU	ENGL3420	The Short Story
ECU	ENGL3810	Advanced Composition
ECU	ENGL4530	SPEC TOPICS SEM
ECU	ENGL5850	Advanced Fiction Writing
ECU	ENGL6865	CREATIVE WRITING
ECU	ENGL6880	Directed Readings in Creative Writing
ECU	ENGL7005	BIBLIOGRAPHY & METHOD
ECU	ENGL7365	MULTICULTURAL LIT
ECU	ENGL7530	Descriptive Linguistics
ECU	ENGL7601	Research Design in Rhetoric and Composition
ECU	ENGL7630	CULTURAL RHET & WRIT
ECU	ENGL7705	Ethical Issues in Professional Communication
ECU	ENGL7712	GRANT PROPOSAL WRITING
ECU	ENGL7716	CLAS SCI & TECH LIT

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
ECU	ENGL7746	Training in Professional Communication
ECU	ENGL7750	Writing Public Science
ECU	ENGL7765	Technical and Professional Communication
ECU	ENGL7766	SP STDYS SEM IN COMM
ECU	ENGL7780	THEORY OF PROF COMM
ECU	ENGL7785	History of Professional Communication
ECU	ENGL8100	Directed Reading
ECU	ENGL8630	ADV CULT RHET WRITING
ECU	ENGL8780	Advanced Theory of Professional Communication
ECU	LIBS6060	USE WWW FOR RES
ECU	LIBS7010	Supervision of School Media and Technology Programs
ECU	LIBS7050	Seminar on Public Libraries
ECU	LIBS7983	Directed Independent Study
ECU	LIBS7991	INTERN: SCH MEDIA SUP
ECU	LIBS7992	Internship: Seminar
ECU	LIBS7995	SEM-CAS PROJECT
ECU	LIBS7996	SEM-CAS PROJECT
ECU	BIOL1050	GEN BIOL
ECU	BIOL1051	GEN BIOL L
ECU	BIOL1060	ENVIRON BIOL
ECU	BIOL1061	ENVIRON BIOL LAB
ECU	BIOL2130	SUR HU PHYS & ANAT
ECU	BIOL2131	SUR HU PHYS & ANAT L
ECU	BIOL3550	Biology Honors
ECU	EXSS3600	Coaching Theories
ECU	EXSS4300	Program Development and Management in Physical Education and Sports
ECU	EXSS6001	Administration of Physical Education and Athletics
ECU	EXSS6133	Sport Marketing and Public Relations
ECU	EXSS6992	Exercise and Sport Science Internship
ECU	RCLS2601	LEISURE IN SOCIETY
ECU	RCLS3202	Camping and Adventure Programming for Individuals with Disabilities
ECU	RCLS4266	Organization and Management of Recreational Therapy Services
ECU	RCLS4990	Recreation Internship
ECU	RCLS5000	Theoretical Foundations of Aquatic Rehabilitation
ECU	RCLS5001	APPL TECH AQUATIC REH
ECU	RCLS5130	BIOFEEDBACK
ECU	RCLS5131	BIOFEEDBACK LAB
ECU	PHIL2275	PROFESSIONAL ETHICS
ECU	CHEM1120	Basic General, Organic, and Biochemistry
ECU	PHYS1250	General Physics
ECU	SCIE3350	Descriptive Astronomy
ECU	SCIE3351	Descriptive Astronomy
ECU	SCIE3360	Physical Meteorology
ECU	SCIE3361	Physical Meteorology
ECU	PSYC3206	Developmental Psychology
ECU	PSYC4280	History of Psychology
ECU	PSYC4305	Educational Psychology
ECU	CDFR5411	Counseling Elders and Their Families
ECU	PADM6110	Human Resouse Management in Public Agencies
ECU	PADM6120	Public Budgeting and Finance
ECU	PADM6123	Economic Development
ECU	PADM6130	Urban Policy and Administration
ECU	PADM6160	Public Policy Formulation and Implementation
ECU	PADM6170	Intergovernmental/Interagency Relations
ECU	PADM6230	Quantitative Methods for Public Administration
ECU	PLAN4015	Emergency Management planning
ECU	PLAN6015	Emergency and disaster planning
ECU	SOCW1010	Introducation Social Welfare/Social Work
ECU	SOCW2010	Introducation Social Worker Practices with Special Population
ECU	SOCW3101	Human Behavior and the Social Environment

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
ECU	SOCW3301	Social Work Policy I
ECU	SOCW4102	Human Behavior and the Social Environment II
ECU	SOCW4510	Human Behavior/Social Environment
ECU	GEOG3410	Fundamentals of GIS
ECU	GEOG3420	Remote sensing of the Enviroment I
ECU	GEOG3460	GIS Applications Programming
ECU	GEOG5220	Physical Geography Field Experience
ECU	GEOG6355	Tourism Development
ECU	GEOL4000	Summer Field Course in Geology
ECU	POLS6155	Changing Nature of National Security
ECU	POLS6382	Global Terrorism
ECU	POLS6430	Seminar in International Politics:
ECU	SOCI1025	Courtship and Marriage
ECU	SOCI2110	Introduction to Sociology
ECU	SOCI2111	Modern Social Problems
ECU	ART1001	Color and Design
ECU	ART1910	Art Appreciation
ECU	ART2070	Introduction to Computer-Aided Art and Design
ECU	ART2870	Computers in Art Education
ECU	ART3000	Intermediate Studio I
ECU	ART3001	Intermediate Studio II
ECU	ART3980	Ceramic History of North Carolina and the Southeastern United States
ECU	ART4000	Community Art Mangement
ECU	ART4470	Digital 3D Lighting and Rendering
ECU	ART4970	History of Nineteenth- and Twentieth-Century Design
ECU	ART5500	Independent Study
ECU	ART5870	Computers in Art Education
ECU	IDMR2700	Historic Interiors I: 3000 BC Through Mid-Nineteenth Century
ECU	IDMR3003	Special Topics
ECU	IDMR4001	Independent Study: Apparel, Textiles, Merchandising, and Interior Design
ECU	IDMR4003	Independent Study: Apparel, Textiles, Merchandising, and Interior Design
ECU	IDMR4300	Global Economics: Textiles, Apparel, and Interior Furnishing Industries
ECU	IDMR4880	Interior Design for Adaptive Reuse
ECU	IDMR4883	Merchandising Internship
ECU	MUSC2207	The Enjoyment of Music
ECU	MUSC2208	Music Appreciation
ECU	MUSC2226	Popular American Music
ECU	MUSC2257	Jazz Appreciation
ECU	MUSC2258	Jazz History
ECU	MUSC3018	Basic Music Skills
ECU	MUSC6206	Intro to Grad Study Music Theory
ECU	MUSC6316	Score Analysis
ECU	THEA1000	Introduction to Theatre
ECU	CLSC2000	Introduction to Clinical Lab Science
ECU	CLSC3430	Clinical Immunology
ECU	CLSC4430	Clinical Chemistry
ECU	CSDI3020	Language Development
ECU	CSDI3030	Speech Scinece: Anatomy, Physiology and Acousitics
ECU	CSDI3050	Acquisition and Development of Phonology and Articulation
ECU	CSDI4100	Introduction to Audiology
ECU	CSDI4110	Aural Rehabilitation
ECU	CSDI6229	DE Clinical Internship
ECU	CSDI8022	Advance Seminar in Audiology
ECU	EHST2110	Introduction to Environmental Health Science
ECU	EHST3502	Problems in Environmental Health
ECU	EHST5001	Seminar in Environmental Health

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
ECU	EHST5164	Radiological Health Field Operation
ECU	EHST6010	Fundamentals of Environmental Health
ECU	EHST6100	Elements Envir Engr
ECU	EHST6210	Topics in Environmental Health and Safety
ECU	EHST6230	Topics in Environmental Health and Safety
ECU	EHST6300	Public Health Pest and Vector Borne Disease
ECU	EHST6301	Public Health Pest and Vector Borne Disease Lab
ECU	EHST6800	Environmental Health Program Management
ECU	EHST6990	Directed Graduate Research Project
ECU	HIMA2000	Introduction to Health Information Management
ECU	HLTH1000	Health Modern Society
ECU	HLTH3010	Health Problems I
ECU	IRHE2000	Introduction to Rural Health
ECU	IRHE2100	Rural Health Immersion
ECU	IRHE2500	Service Learning in Interdisciplinary Teams
ECU	IRHE3100	Independent Study
ECU	IRHE3500	Designing IRH Environ
ECU	IRHE6000	Interdisc Virt Teamwk
ECU	MPH6010	Fundamentals of Environmental Health
ECU	MPH6035	Interdisciplinary Rural Health
ECU	MPH6901	Internship in Health Education
ECU	MPH6903	Intern Public Health
ECU	NURS3271	Clinical Nursing Foundations I
ECU	NURS3901	Practicum in Concepts in Professional Nursing
ECU	NURS5620	International Health Care
ECU	NURS6006	Selected Topics
ECU	NURS6020	Theoretical Foundations for Advanced Nursing
ECU	NURS6021	Concepts of Palliative Care
ECU	NURS6023	Ethnogeriatrics and HLC
ECU	NURS6025	Issues in Advanced Nursing Practice
ECU	NURS6045	Data Management for Advanced Nursing Practice
ECU	NURS6214	Problems and Issues of the Chronically Ill
ECU	NURS6224	Problems and Issues of the Acutely Ill
ECU	NURS6310	Advanced Community Health Nursing I
ECU	NURS6330	Advanced Community Health Nursing Practicum I
ECU	NURS6500	Indep Study in Nursing
ECU	NURS6998	Nursing Research Practicum
ECU	NURS7255	Directed Research
ECU	NURS7271	Complementary and Alternative Therapies in Nursing Practice
ECU	NURS7500	Independent Study
ECU	OCCT3000	Introduction to Occupational Therapy
ECU	OCCT6070	Special Topic
ECU	OCCT6600	Concepts & Practice of Research in Occupational Th
ECU	OCCT6660	Master's Project
ECU	PADP6150	Clinical Medicine I
ECU	PADP6250	Clinical Medicine II
ECU	PADP6310	Behavior Medicine Clinical Practicum
ECU	PADP6320	Internal Medicine Clinical Practicum
ECU	PADP6330	Family Medicine Clinical Practicum
ECU	PADP6340	General Surgery Clinical Practicum
ECU	PADP6350	Emergency Medicine Clinical Practicum
ECU	PADP6360	Pediatrics Clinical Practicum
ECU	PADP6370	OB/GYN Clinical Practicum
ECU	PADP6380	Geriatrics Clinical Practicum
ECU	PADP6650	Surgery and Emergency Medicine Skills
ECU	PADP6680	Introduction to Clerkship
ECU	PADP6800	Behavioral Medicine and Psychosocial Issues in Health Care
ECU	PADP6850	Health Promotion/Disease Prevention
ECU	PADP6980	Research Project
ECU	REHB2003	Alcohol and Drug Abuse: Health and Social Problem

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
ECU	REHB5000	Introduction to Rehabilitation
ECU	REHB5793	Treatment of Alcohol Drug Addiction
ECU	REHB5796	Contemporary Alcohol/Drug Abuse Issues
ECU	REHB6000	Medical and Psychosocial Aspects of Disability
ECU	BVTE4324	Internship in Workforce Preparedness Education
ECU	BVTE4325	Internship Seminar: Issues in Workforce Preparedness Education
ECU	DSCI4383	Technology in Business Operations
ECU	DSCI4763	Supply Chain Management
ECU	HESC4521	Readings in Human Environmental Sciences
ECU	HESC5005	Special Problems in Human Environmental Sciences
ECU	HESC6950	Seminar in Human Environmental Sciences
ECU	MGMT6500	Independent Study
ECU	MGMT6832	Human Resource
ECU	MKTG3852	Cultural Environment of International Business
ECU	NUHM2100	Lodging Systems Management
ECU	NUHM2105	Nutrition
ECU	NUHM3101	Clin Nut All Hlth Pr
ECU	NUHM3104	Adv. Vitamins & Minerals
ECU	NUHM3991	Field Experience in Food Services
ECU	NUHM3992	Field Experience in Convention and Special Events
ECU	NUHM6100	Independent Study
ECU	NUHM6410	Strategic Management of Lodging Operations
ECU	NUHM6420	Current Issues and Strategies in Hospitality Management
ECU	NUHM7000	Thesis
ECU	OMGT4493	Statistical Quality Control
ECU	OMGT4743	Materials Management
ECU	OMGT4763	Supply Chain Management
NCAT	AGEN440	Engineering Properties of Biological Materials
NCAT	AGEN523	Biological and Agricultural Energy Systems
NCAT	GCS733	Graphic Communications Organization and Management
NCAT	COMP390	Social Implications of Computing
NCAT	COMP600	Special Topics: Advanced Database Systems
NCAT	COMP600	Special Topics: Wireless Network Security
NCAT	COMP653	Computer Graphics
NCAT	COMP690	Electronic Commerce on the Internet
NCAT	COMP696	Information, Privacy, and Security
NCAT	COMP713	Social Impacts of Software Systems
NCAT	COMP750	Distributed Systems
NCAT	COMP767	Computer Network Architecture
NCAT	ECT/ITT725	Wide Area Networks
NCAT	ITT301	Hardware and Software Installation & Maintenance
NCAT	ITT420	Introduction to Unix/Linux
NCAT	ITT431	Advanced Programming Techniques with an OOP Language
NCAT	ITT600	Project Management for Information Technology
NCAT	ITT601	Wireless Application Protocols
NCAT	ITT605	Networking Security Applications
NCAT	ITT610	Digital Communications I
NCAT	ITT615	Principles of Computer Networking
NCAT	ITT620	Telecommunications Management
NCAT	ITT625	Computer Database Management
NCAT	ITT629	Computer Networking I
NCAT	ITT630	Computer Networking II
NCAT	ITT635	Administration & Security of Wireless LAN I
NCAT	ITT640	Administration & Security of Wireless Network II
NCAT	ITT645	Analysis & Troubleshooting of Wireless LAN Systems
NCAT	ITT665	Wireless Geolocation Systems I
NCAT	ITT670	Communication Circuit Dev
NCAT	ITT685	Ethical Aspects of Information Technology
NCAT	ITT765	Wireless Geolocation Systems II
NCAT	ADED708	Methods in Adult Education

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
NCAT	ADED709	Adult Development and Learning
NCAT	HPED/PHED721	Current Problem Trends in Education
NCAT	HPED/PHED732	Sport Psychology
NCAT	HPED/PHED760	Program Development in Adapted PE
NCAT	SPED351	Introduction to Learning Disabilities
NCAT	SPED667	Specific Learning Disabilities
NCAT	SPED763	Classroom & Behavioral Management in Special Education
NCAT	TECH218	Introduction to Technology
NCAT	TECH219	Production Systems
NCAT	TECH382	Computer Applications for Technological Studies
NCAT	TECH412	Introduction to Construction Systems
NCAT	TECH413	Introduction to Manufacturing Systems
NCAT	TECH414	Introduction to Communication Systems
NCAT	TECH415	Introduction to Transportation Systems
NCAT	TECH416	Introduction to Biotechnology Systems
NCAT	TECH462	Organization & Management of Technology Education
NCAT	TECH566	Technology Education Teaching Methods
NCAT	TECH660	Industrial Cooperative Programs
NCAT	TECH661	Workforce Development Program Planning and Management
NCAT	TECH662	Technological Education Course Construction
NCAT	TECH663	History and Philosophy of Technological Education
NCAT	TECH670	Introduction to Workplace Training and Development
NCAT	TECH671	Methods & Teaching in Workplace Training & Development
NCAT	TECH708	Impacts of Technology
NCAT	TECH764	Administration & Supervision for Technological Education
NCAT	TECH770	System Design of Training & Development Industries
NCAT	INEN260	Engineering Economy
NCAT	INEN600	Survey of Industrial Engineering Topics
NCAT	INEN685	Selected Topics in Engineering
NCAT	INEN792	Master's Seminar
NCAT	INEN793	Supervised Teaching
NCAT	INEN794	Supervised Research
NCAT	INEN992	Doctoral Seminar in Industrial Engineering
NCAT	MEEN337	Mechanics II
NCAT	MEEN885	Special Topics
NCAT	CM100	Orientation to Construction Management
NCAT	CM216	Commercial/ Industrial Construction Methods and Equipment
NCAT	CM592	Project Management
NCAT	CM596	Construction Financial Management and Organization
NCAT	CM598	Construction Management
NCAT	CM601	Senior Project
NCAT	CM690	Risk Management in the Construction Process
NCAT	CM692	Project Management
NCAT	CM710	Advanced Construction Management & Organization
NCAT	CM715	Productivity & Methods of Improvement in Construction
NCAT	CM720	Construction Contract Administration
NCAT	CM780	Emerging Trends in Construction Management of International Projects
NCAT	CML215	Residential Construction & Codes
NCAT	ELEN650	Digital Signal Processing
NCAT	GCS263	Evolution & Social Implications of Technology Education
NCAT	GCS292	Technical Communications
NCAT	GCS637	Industrial & Customer Relations in Graphic Communications
NCAT	GCS670	Electronic Imaging in Graphic Communications
NCAT	GCS717	Industrial Education Problems I
NCAT	GCS788	Master's Comprehensive Exam
NCAT	MFG470	Industrial Materials & Processes
NCAT	MFG696	Applied Computer Integrated Manufacturing
NCAT	MFG735	Manufacturing Organization and Management
NCAT	MFG745	Managing New Product Development
NCAT	MFG772	Strategic Concepts in Quality

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
NCAT	MFG799	Quality Standards in Leadership
NCAT	MSIT610	Problem Solving in Industrial Technology
NCAT	FOLA104	Elementary Spanish I
NCAT	FOLA105	Elementary Spanish II
NCAT	ENGL331	Writing for Science & Technology
NCAT	ENGL412	Writing Reports & Proposals
NCAT	CHEM221	Organic Chemistry Lecture I
NCAT	CHEM222	Organic Chemistry Lecture II
NCAT	CHEN450	Chemical Engineering Topics Review
NCAT	HDSV650	Counseling Theories
NCAT	HDSV738	Psychosocial Aspects of Disability
NCAT	HEFS181	Social-Psychological Aspects of Dress
NCAT	HEFS503	Interior Design
NCAT	NURS100	Nursing Orientation
NCAT	NURS320	Health Assessment
NCAT	NURS390	Transition into Baccalaureate
NCAT	NURS510	Community Health Nursing
NCAT	NURS512	Seminar on Healthcare
NCAT	NURS513	Complex Health Problems Across the Life Span Practice
NCAT	NURS520	Management & Leadership in Health Care Organizations
NCAT	SPCH461	Small Group Communication
NCSU	ANS225	Principles of Animal Nutrition
NCSU	ANS350	Introduction to HACCP
NCSU	ANS425	Feed Mill Management and Feed Formulation
NCSU	ARE012	Principles of Soil Science
NCSU	ARE201	Introduction to Agricultural & Resource Economics
NCSU	ARE304	Agribusiness Management
NCSU	ARE306	Agricultural Law
NCSU	ARE309	Environmental Law and Economic Policy
NCSU	ARE495Y	SPTP Environmental Law
NCSU	BAE432	Agricultural and Environmental Safety and Health
NCSU	BAE502	Instrumentation for Hydrologic Applications
NCSU	BAE570	Soil Water Movement
NCSU	BAE576	Watershed Monitoring & Assessment
NCSU	BAE577	Introduction to the Total Maximum Daily Load Program
NCSU	BAE578	Agricultural Waste Management
NCSU	FS350	Introduction to HACCP
NCSU	FS351	Sanitation Standard Operating Procedures in Food Safety Control
NCSU	FS453/553	Food Laws and Regulations
NCSU	FS495K	Special Topic: Sanitation
NCSU	FS495R	Special Topic: Good Manufacturing Process
NCSU	FS495W	Special Topic: SSOP's
NCSU	FS495X	Special Topic: Hazard Analysis/Risk Assessment
NCSU	FS495Y	Special Topic: Microbiology/Microbial Hazards
NCSU	PP315	Principles of Plant Pathology
NCSU	SSC012	Principles of Soil Science
NCSU	SSC341	Soil Fertility and Fertilizers
NCSU	SSC470	Wetland Soils
NCSU	SSC541	Soil Fertility and Fertilizers
NCSU	SSC551	Soil Morphology, Genesis and Classification
NCSU	SSC562	Environmental Applications of Soil Science
NCSU	SSC570	Wetland Soils
NCSU	SSC620	Special Problems
NCSU	CS210	Lawns and Recreational Turfgrass
NCSU	CS230	Introduction to Agroecology
NCSU	NE772	Environmental Exposure and Risk Analysis
NCSU	IDS201	Environmental Ethics
NCSU	CSC114	Introduction to Computing C++
NCSU	CSC116	Introduction to Computing - Java
NCSU	CSC214	Programming Concepts

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
NCSU	CSC216	Programming Concepts - Java
NCSU	CSC224	Applied Discrete Mathematics
NCSU	CSC226	Applied Discrete Mathematics for CSC Only
NCSU	CSC234	Computer Organization and Assembly Language
NCSU	CSC236	Computer Organization and Assembly Language for CSC Only
NCSU	CSC244	Concepts and Facilities of Operating Systems
NCSU	CSC246	Concepts and Facilities of Operating Systems for CSC Only
NCSU	CSC251	Web Page Development
NCSU	CSC253	C and C++ for Java Programmers
NCSU	CSC257	Introduction to Java
NCSU	CSC314	Data Structures
NCSU	CSC316	Data Structures for Computer Scientists
NCSU	CSC456	Computer Architecture and Multiprocessors
NCSU	ECI514	Multimedia Design and Applications in K-12 Instruction
NCSU	ECI515	Internet Applications and Web Design in K-12 Settings
NCSU	NR531	Introduction to Geographic Information Science
NCSU	NR535	Computer Cartography
NCSU	AEE303	Administration and Supervision of Student Organizations
NCSU	AEE322	Experiential Learning in Agriculture
NCSU	EAC538	Instructional Strategies in ACCE
NCSU	ECI201	Introduction to Instructional Technology for Educators
NCSU	ECI335	Planning Classroom and Clinical Curricula
NCSU	ECI336	Strategies of Teaching Health Occupations
NCSU	ECI496K	Special Topic: Teaching Foreign Languages Online
NCSU	ECI716	Design and Evaluation of Instructional Materials
NCSU	EDP304	Educational Psychology
NCSU	EOE101	Introduction to Occupational Education
NCSU	FCS510	Program and Evaluation Development in Family Life Education
NCSU	FCS522	Family Life Education
NCSU	PSY510T	ADPB- Educational Assessment: Principles & Practices
NCSU	PSY510U	ADPB- Large Scale Assessment
NCSU	PSY510V	ADPB- Testing Accomidations and Alternate Assessment
NCSU	MSE706	Phase Transformations and Kinetics
NCSU	MSE712	Scanning Electron Microscopy
NCSU	MSE791K	Advanced Topics in Materials & Engineering
NCSU	PCC203	Introduction to Polymer Chemistry
NCSU	PCC301	Technology of Dyeing and Finishing
NCSU	PCC310	Textile Preparation and Finishing Chemistry
NCSU	TT105	Introduction to Textile Technology
NCSU	TT221	Yarn Production and Properties I
NCSU	TT252	Formation and Structure of Textile Fabrics
NCSU	TT331	Performance Evaluation of Textile Materials
NCSU	TT425	Textured Yarn Production and Properties
NCSU	TT451	Advanced Woven Fabric Design
NCSU	TAM380	Management and Control of Textile and Apparel Systems
NCSU	TAM482	Textile Marketing Management
NCSU	TAM483	Textile and Apparel in International Trade
NCSU	TED359	Electronics Technology
NCSU	TED556	Laboratory Management
NCSU	FL424	Linguistics for ESL Professionals
NCSU	FL439	Perspectives on English as a New Language
NCSU	FL440	Internship in Teaching English as a Second Language
NCSU	FLE400	American English Pronunciation for International Students
NCSU	FLG307	Business German
NCSU	FLS101	Elementary Spanish I
NCSU	NTR390	Nutrition Seminar
NCSU	NTR415	Comparative Nutrition
NCSU	NTR500	Principles of Human Nutrition
NCSU	NTR594B	Special Topics: Food Lipids
NCSU	ENG331	Communication for Engineering and Technology

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
NCSU	ENG332	Communication for Business and Management
NCSU	BIO105	Biology in the Modern World
NCSU	BO277	Space Biology
NCSU	BO595Y	SPTP: Space Biology
NCSU	ENT201	Insects and People
NCSU	TOX401	Principles of Toxicology
NCSU	TOX415	Environmental Toxicology and Chemistry
NCSU	VPH544	Animal Health and Food Safety in a Global Economy
NCSU	ZO405	Functional Histology
NCSU	ZO495E	Special Topics: Evolutionary Mechanisms
NCSU	ZO495X	SPTP: Survey of Animal Diversity
NCSU	LOG201	Logic
NCSU	MA107	Precalculus
NCSU	MA114	Introduction to Finite Mathematics with Applications
NCSU	MA121	Elements of Calculus
NCSU	ST311	Introduction to Statistics
NCSU	ST350	Economics and Business Statistics
NCSU	ST370	Probability and Statistics for Engineers
NCSU	ST535	Statistical Methods for Quality and Productivity Improvement
NCSU	ST610C	Forensic Statistics
NCSU	STS302	Contemporary Science, Technology, and Human Values
NCSU	STS322	Technological Catastrophies
NCSU	STS402	Peace and War in the Nuclear Age
NCSU	PRT/BUS406	Sport Law
NCSU	PRT200	Leisure Behavior, Health and Wellness
NCSU	PRT462	Introduction to Geographic Information Systems
NCSU	PHI205	Introduction to Philosophy
NCSU	PHI214	Issues in Business Ethics
NCSU	PHI221	Contemporary Moral Issues
NCSU	PHI250	Practical Reasoning
NCSU	PHI340	Philosophy of Science
NCSU	REL300	Religious Traditions of the World
NCSU	CH101	Chemistry- A Molecular Science
NCSU	CH201	Chemistry- A Quantitative Science
NCSU	CH221	Organic Chemistry I
NCSU	CH223	Organic Chemistry II
NCSU	CH295	Organic Chemistry I- no lab
NCSU	CH315	Quantitative Analysis
NCSU	MEA101	Geology I: Physical
NCSU	MEA200	Introduction to Oceanography
NCSU	PY205	Physics for Engineers and Scientists I
NCSU	PY208	Physics for Engineers and Scientists II
NCSU	PY610	Advanced Placement Physics for Secondary School Teachers
NCSU	PY610B	Matter & Interactions I for Secondary School Teachers
NCSU	PY610C	Matter & Interactions II for Secondary School Teachers
NCSU	PS498	Crime Analysis
NCSU	PS598	SPTP: Criminal Justice Research
NCSU	SW412	Social Work in Schools
NCSU	PS101	Internet Research
NCSU	PS102	Data Analysis
NCSU	PS103	Designing Political Web Pages
NCSU	PS201	American Politics and Government
NCSU	SOC495M	Social Movements
NCSU	GD342/592E	History of Graphic Design
NCSU	MUS200	Understanding Music
NCSU	T200	Introduction to Textiles
NCSU	ECI332	Health Promotion and Disease Prevention
NCSU	ECI333	Health Care Delivery
NCSU	ECI438	Medical Law and Ethics
NCSU	GRK333	Medical Terminology

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
NCSU	ST610D	Genetic Data Analysis
NCSU	ST610E	QTL Mapping
NCSU	ST610F	Statistical Analysis of Pedigree Data
NCSU	ACC200	Introduction to Managerial Accounting
NCSU	ACC210	Accounting I Concepts of Financial Reporting
NCSU	BUS305	Legal and Regulatory Environment
NCSU	BUS335	Organizational Behavior
NCSU	BUS350	Economics and Business Statistics
NCSU	BUS360	Marketing Methods
NCSU	BUS510	Managing the Digital Enterprise
NCSU	EAC795J	Ethics in HRD
NCSU	PS298	Leadership for Line Supervisors
NCSU	HI216	Latin America Since 1826
NCSU	HI270	Modern Middle East
NCSU	HI453	United States-Latin America Relations Since 1823
UNC-C	ITCS1101	Intro to Computer
UNC-C	ITCS1215	Intro to Comp Sci II
UNC-C	EIST6101	The Adult Learner
UNC-C	EIST8101	The Adult Learner
UNC-C	LATN1201	Elem Latin I
UNC-C	LATN1202	Elem Latin II
UNC-C	LATN2201	Intermediate Latin
UNC-C	LBST2102	Global Connections-Polls (X)
UNC-C	LBST6000	Language and Politics
UNC-C	STAT1221	Elementary Statistics
UNC-C	PHIL2105	Deductive Logic
UNC-C	RELS3101	Greek Myths and Religions
UNC-C	RELS3212	Films and Identity
UNC-C	GEOL1200	Physical Geology
UNC-C	POLS1110	Intro to American Politics
UNC-C	POLS1130	Introduction to Comparative Politics
UNC-C	POLS3050	Digital Forensics and Policy
UNC-C	POLS3154	Cyberspace and Politics
UNC-C	POLS6000	Language and Politics
UNC-C	SOCY2132	Sociology of Marriage and Family
UNC-C	NURS2100	General Nutrition
UNC-C	NURS4192	Enhancing Clinical Judgment
UNC-C	NURS6105	Roles and Iss Adv Prc Ns
UNC-C	HIST1100	World in the 20th Century
UNC-C	HIST1161	U S History Since 1865
UNC-C	HIST3109	Renaissance and Reformation
UNC-CH	AFAM40	The Black Experience
UNC-CH	AFRI40	Intro to African Civilization
UNC-CH	AFRI65	Topics in Afro-American Studies
UNC-CH	ANTH10	General Anthropology
UNC-CH	ANTH140	Gender and Culture
UNC-CH	ANTH42	Local Cultures, Global Forces
UNC-CH	IDS495	Introduction to Research Ethics
UNC-CH	INTS77	Global Issues in the 20 th Century
UNC-CH	SOCI22	Race & Ethnic Relations
UNC-CH	COMM10	Communication and Social Process
UNC-CH	COMM33	Dramatic/Fiction Writing and Preproduction
UNC-CH	COMM41	Media Criticism
UNC-CH	COMM95	Special topics in Communication Study
UNC-CH	JOMC102	Mass Comm. Education in Secondary School
UNC-CH	JOMC103	Mass Comm. Law in Secondary School
UNC-CH	JOMC104	Mass Comm. Writing & Editing In Secondary School
UNC-CH	JOMC131	Case Studies in Public Relations
UNC-CH	JOMC149	Internet Issues and Concepts
UNC-CH	JOMC152	Business Reporting

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
UNC-CH	JOMC191	Gender Issues in Sports Media & Advertising
UNC-CH	CSC251	HTML and Web Page Design
UNC-CH	CSC255	String Processing Languages
UNC-CH	EDUC100	Education Workshop: Science Teaching
UNC-CH	EDUC100	Education Workshop: Constructive Coaching
UNC-CH	EDUC100	Education Workshop: Constructive Coaching II
UNC-CH	EDUC105	Children's Literature
UNC-CH	EDUC155	Seminar in Learning and Behavioral Disabilities
UNC-CH	EDUC191A	Reading and Writing Disabilities
UNC-CH	EDUC191B	Math and Content Methods for Students with Disabilities
UNC-CH	EDUC248	Teaching Secondary Students with Disabilities
UNC-CH	EDUC285	Teacher Leadership and Democratic Society
UNC-CH	EDUC294D	Designing Problem Tasks for Mathematics
UNC-CH	EDUC95	Seminar on Teaching
UNC-CH	EDUC96	Teaching Internship
UNC-CH	HED4730	Teaching Stress Mgmt. and Emotional Health
UNC-CH	LAW230	Legal Environment of Business
UNC-CH	ENGL21	British Literature, Wordsworth to Elliot
UNC-CH	ENGL23	Introduction to Fiction
UNC-CH	ENGL23W	Intro to Fiction Writing
UNC-CH	ENGL24	Contemporary Literature
UNC-CH	ENGL28	Major American Authors
UNC-CH	ENGL32	Business Writing
UNC-CH	ENGL34	Intermediate Fiction Writing
UNC-CH	ENGL36	English Grammar
UNC-CH	ENGL3880	Writing for Business and Industry
UNC-CH	LING30	Introduction to Language
UNC-CH	INLS102	Information Tools
UNC-CH	INLS110-69	Consumer Health Information
UNC-CH	INLS122	Young Adult Literature and Related Materials
UNC-CH	INLS123	Children's Literature and Related Materials
UNC-CH	INLS180	Human Information Interaction
UNC-CH	INLS210-03	Evidence-based Medicine
UNC-CH	INLS214	User Education
UNC-CH	INLS241	School Library Media Center
UNC-CH	BIOL44	Intro to Human Anatomy and Physiology
UNC-CH	EXSS62	Fundamental of Sports Marketing
UNC-CH	EXSS95	Legal Aspects of Sports
UNC-CH	PRT152	Introduction to Parks, Recreation, & Tourism
UNC-CH	PHIL20	Introduction to Philosophy
UNC-CH	PHIL21	Introductory Symbolic Logic
UNC-CH	PHIL22	Introduction to Ethics
UNC-CH	PHIL34	Bioethics
UNC-CH	RELI156	Ethnicity, Race, and Religion in America
UNC-CH	RELI21	Introduction to Old Testament Literature
UNC-CH	RELI22	Introduction to New Testament Lit
UNC-CH	RELI29	Religion in America
UNC-CH	RELI39	Asian Religions
UNC-CH	RELI58	Jesus in Myth, Tradition, and History 30-200 A.D. -
UNC-CH	RELI59	The Birth of Christianity
UNC-CH	RUSS70	Russian Literature of the 19th Century
UNC-CH	ASTR31	Descriptive Astronomy
UNC-CH	CLAS26	Word Formation & Etymology
UNC-CH	PHYS18	Physic of Energy: Alternative to Oil & Gas
UNC-CH	PHYS24E	General Physics
UNC-CH	PHYS25E	General Physics
UNC-CH	PSY200	General Psychology
UNC-CH	PSYC10	General Psychology
UNC-CH	PSYC127	Cognitive Development
UNC-CH	PSYC144	Childhood Disorders

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
UNC-CH	PSYC24	Child Development
UNC-CH	PSYC28	Personality
UNC-CH	PSYC80	Abnormal Psychology
UNC-CH	PYS200	General Psychology
UNC-CH	CJ204	Penology (offered at ESCU)
UNC-CH	SOCW402	Diversity in Contemporary Society
UNC-CH	SOCW420	Addictions
UNC-CH	GEOG120	Fundamental Concepts of Human Geography
UNC-CH	GEOG20	World Regional Geography
UNC-CH	GEOG59	Geography of Latin America
UNC-CH	GEOL11	Introductory Geology
UNC-CH	GEOL13	Violent Earth
UNC-CH	GEOL16	Prehistoric Life
UNC-CH	POLI151	The Adversary System
UNC-CH	POLI159	Criminal Law
UNC-CH	POLI41	Introduction to Government in the U.S.
UNC-CH	POLI42	State Government in the U.S.
UNC-CH	POLI61	Major Issues in Political Theory
UNC-CH	POLI63	Classical Political Thought
UNC-CH	POLI64	Modern Political Thought
UNC-CH	POLI86	International Relations & World Politics
UNC-CH	PSC215	European Political System
UNC-CH	SOCI112	Social Stratification
UNC-CH	SOCI23	Crime & Delinquency
UNC-CH	SOCI30	Family and Society
UNC-CH	ART27	Islamic Art
UNC-CH	ART31	History of Western Art I
UNC-CH	ART32	History of Western Art II
UNC-CH	ART33	Ancient Survey
UNC-CH	ART64	Women in Visual Arts
UNC-CH	ART80D	Topics in Modern Art: Visualizing Disability
UNC-CH	DRAM15	Perspectives in Western Drama
UNC-CH	DRAM16	Perspectives in the Theatre
UNC-CH	MUS101	Music Appreciation
UNC-CH	MUS304	Jazz Appreciation
UNC-CH	MUSC43	Introduction to Rock Music
UNC-CH	MUSC44	Country Music
UNC-CH	SOCI169	Medicine and Society
UNC-CH	SPAN105	Spanish for Health Professionals
UNC-CH	ACCT335	Federal Income Taxation
UNC-CH	BA133	Introduction to Business
UNC-CH	BUSI170	Management Accounting
UNC-CH	BUSI178	Financial Statement Analysis
UNC-CH	BUSI71X	Financial Accounting
UNC-CH	HOS4050	Meeting & Conventions Management
UNC-CH	HIST11	History of Western Civilization to 1860
UNC-CH	HIST18	The World Since 1945
UNC-CH	HIST19	Diversity & Post-1945 World History
UNC-CH	HIST20	20 th Century Africa
UNC-CH	HIST21	American History to 1865
UNC-CH	HIST22	American History Since 1865
UNC-CH	HIST30	Russia to 1861
UNC-CH	HIST31	History of Russia from 1861 to Present
UNC-CH	HIST50	The History of the Holocaust
UNC-CH	HIST65	The Worker and American Life
UNC-CH	HIST74	The American West 1800 to Present
UNC-CH	HIST77A	Modern Middle East
UNC-CH	EDUC131	Program Development for Special Populations
UNC-CH	EDUC134	Internship Seminar on Instructional Leadership and Supervision
UNC-CH	EDUC135	Internship Seminar on School Building Management

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
UNC-CH	EDUC139	Curriculum Leadership
UNC-CH	EDUC140	Group Dynamics, Decision Making, and Problem Solving
UNC-CH	EDUC238	Managing Schools within a District Context
UNC-CH	EDUC337	Problems in Educational Leadership II
UNC-CH	EDUC338	Problems of Supervisory Practice
UNC-P	AIS388	Native American Population
UNC-P	JRN317	History of American journalism
UNC-P	CSC100	Introduction to Computers
UNC-P	CSC155	Foundation of Computers
UNC-P	CSC206	Introduction to Program-JAVA
UNC-P	CSC265	Prog and Algor II
UNC-P	CSC325	Fundamentals of Computer Systems
UNC-P	CSC375	Programming Languages
UNC-P	CSC385	File Processing
UNC-P	CSC395	Introduction Finite Auto
UNC-P	ECE321	Curr and Env/Presch Program
UNC-P	ECE390	Practice in Child Study
UNC-P	ECE400	DEV Assess Yng Ch
UNC-P	ECE420	Adm Early Child Program
UNC-P	EDN302	Foundations of Education
UNC-P	EDN304	K-6 Curriculum
UNC-P	EDN306	Early Child Dev
UNC-P	EDN307	Mid Child Dev
UNC-P	EDN309	The Emerging Adolescent
UNC-P	EDN310	Birth-Y/Adult Dev
UNC-P	EDN350	Educational Psychology
UNC-P	EDN405	Foundation Curriculum Development 6-9
UNC-P	EDN419	Content Literature Mid/Sec Sc
UNC-P	EDN430	Incl Study SP Needs
UNC-P	EDN522	Literacy and literature
UNC-P	EDN534	Diag and Cor Rdg Dif
UNC-P	EDN550	Applied Education Psychology
UNC-P	EDN566	Applied Education Research
UNC-P	EDN574	Reading Practicum
UNC-P	ENDL570	Education Decision Making
UNC-P	PED349	Anatomy and Physiology
UNC-P	PED400	Teaching PE in Grades
UNC-P	SCE300	Early Exp Prospt Science Tech
UNC-P	SED300	Introduction to Exp Div and At Risk
UNC-P	SED310	Introduction to Mental Retardation
UNC-P	SED322	Curr and Env/Chld Special Ed
UNC-P	SED405	Adt Tech Study w/Spec NE
UNC-P	SED482	Sup Fam Presch W/Disabilities
UNC-P	ENG206	World Literature after 1660
UNC-P	BIO100	Principles of Biology
UNC-P	MAT104	Foundation of Math
UNC-P	MAT105	Introduction to College Math
UNC-P	MAT107	College Algebra I
UNC-P	MAT222	Calculus II
UNC-P	MAT315	Linear Algebra I
UNC-P	GERS401	Introduction to Geront
UNC-P	GERS405	Psychology of Aging
UNC-P	CHM130	General Chemistry I
UNC-P	CHM298	Scientific Literature
UNC-P	CHM311	Biochemistry
UNC-P	CHM399	Research in Chemistry
UNC-P	GLY541	Meteorology and Climate
UNC-P	PHS110	Physical Science I
UNC-P	PSY205	Childhood/Adoles Development
UNC-P	SWK200	Introduction to Social Work

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
UNC-P	SWK345	Human Behavior Soc Env I
UNC-P	SWK450	SWK Values and Ethics
UNC-P	SWK491	Field Work Integrative
UNC-P	PSPA101	American National Government
UNC-P	SOC201	Sociology Concepts
UNC-P	SOC220	Computers and Society
UNC-P	SOC412	Population and Social Change
UNC-P	ART205	Art Appreciation
UNC-P	ART256	Web Design
UNC-P	ART422	Renaiss Art History
UNC-P	ART501	Survey of Art Education
UNC-P	MUS102	Introduction to Music Appreciation
UNC-P	NUR310	Transcultural Nursing
UNC-P	NUR330	Gerontological Nursing
UNC-P	ACC228	Managerial Accounting
UNC-P	ACC331	Cost Accounting
UNC-P	DSC109	Business Uses of Computers
UNC-P	DSC413	Management Information Systems
UNC-P	FIN205	Personal Finance
UNC-P	MGT308	Organizational Theory and Behavior
UNC-P	MKT405	Retail management
UNC-P	HST101	American Civ to 1877
UNC-P	HST317	History of North Carolina
UNC-W	MIS213	Introduction to Information Systems and Technology
UNC-W	MIT500	Instructional Systems Design
UNC-W	MIT512	Computer Applications in Education
UNC-W	EDN301	Instructional Design & Evaluation
UNC-W	EDN303	Instructional Technology
UNC-W	EDN318	Middle School Programs and Practices
UNC-W	EDN356	Reading in Secondary School
UNC-W	EDN513	Leadership for learning
UNC-W	SED354	Intellectual and Developmental Disabilities
UNC-W	SPN120	Fundamentals of Spanish
UNC-W	ENG306	Essay Writing
UNC-W	ENG320	Introduction to Linguistics
UNC-W	GRN101	Introduction to Gerontology
UNC-W	GRN501	Aging and Society
UNC-W	CHM101	General Chemistry
UNC-W	PSY220	Child Psychology
UNC-W	PSY221	Adolescent Psychology
UNC-W	PSY223	Lifespan Human Development
UNC-W	PSY366	Psychology of Marriage and Family
UNC-W	CRJ230	Corrections
UNC-W	CRJ350	Juvenile Justice
UNC-W	CRJ410	World Criminal Justice Systems
UNC-W	PLS101	American National Government
UNC-W	SOC105	Introduction to Sociology
UNC-W	SOC305	Population
UNC-W	NSG502	Theoretical Foundations in Nursing
UNC-W	NSG503	Families in Rural and Urban Communities
UNC-W	NSG504	Health Policy
UNC-W	NSG522	Advanced Care: Mid-Life and Aging
WCU	ANTH493	Issues in Indian Health
WCU	ANTH593	Issues in Indian Health
WCU	LAW230	Legal Environment of Business
WCU	BIO140	Principles of Biology I
WCU	BIO141	Principles o Biology II
WCU	SM260	Introduction to Sports Management
WCU	SM340	Sports Ethics
WCU	PAR332	Biomedical Ethics and Social Justice

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX B
E-LEARNING COURSES

Campus	Course Number	Course Title
WCU	CHEM132	Introductory Chemistry
WCU	SOCW151	Introduction to Social Work
WCU	SOCW402	Diversity in Contemporary Society
WCU	PSC150	American Government
WCU	SOC235	Social Problems
WCU	SOC385	Methods of Social Research
WCU	HEAL123	Health and Wellness
WCU	HSCC300	Occupational Health
WCU	ACCT493	Financial Accounting Concepts and Standards
WCU	PM500	Tools for Financial Management
WCU	PM505	Statistics and Economics
WCU	PM515	Legal and Ethical Issues
WSSU	HUM2310	African American Culture
WSSU	BKE2323	Child Development I: Infant and Toddler Development
WSSU	HED2206	Community Health
WSSU	HED3201	Health for Elementary and Classroom Teachers
WSSU	PED2340	Motor Development
WSSU	PED3321	Exercise Physiology
WSSU	PED3411	Kinesiology
WSSU	PED4131	Curriculum Development
WSSU	PED4321	Middle & Secondary Methods
WSSU	PED4331	Organization/Administration

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APPENDIX C

FRIDAY CENTER SELF-PACED E-LEARNING COURSES
AS OF DECEMBER 31, 2005

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NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX C
FRIDAY CENTER SELF-PACED COURSES

Campus	CIP	Course number	Course Title
ASU	13	HED4730	Teaching Stress Mgmt. and Emotional Health
ASU	52	HOS4050	Meeting & Conventions Mangement
ECSU	52	ACCT335	Federal Income Taxation
ECSU	43	CJ204	Penology (offered at ESCU)
ECU	23	ENGL3880	Writing for Business and Industry
NCSU	52	ACC210	Accounting 1, Concepts of Financial Reporting
NCSU	11	CSC251	HTML and Web Page Design
NCSU	11	CSC255	String Processing Languages
NCSU	5	IDS495	Introduction to Research Ethics
NCSU	31	PRT152	Introduction to Parks, Recreation, & Tourism
UNC-CH	50	ART31	History of Western Art I
UNC-CH	50	ART32	History of Western Art II
UNC-CH	26	BIOL44	Intro to Human Anatomy and Physiology
UNC-CH	40	CLAS26	Word Formation & Etymology
UNC-CH	23	ENGL24	Contemporary Literature
UNC-CH	23	ENGL32	Business Writing
UNC-CH	23	ENGL34	Intermediate Fiction Writing
UNC-CH	23	ENGL36	English Grammar
UNC-CH	54	HIST18	The World Since 1945
UNC-CH	54	HIST21	American History to 1865
UNC-CH	54	HIST22	American History Since 1865
UNC-CH	38	PHIL20	Introduction to Philosophy
UNC-CH	38	PHIL22	Introduction to Ethics
UNC-CH	40	PHYS24E	General Physics
UNC-CH	40	PHYS25E	General Physics
UNC-CH	45	POLI41	Introduction to Government in the U.S.
UNC-CH	45	POLI42	State Government in the U.S.
UNC-CH	42	PSYC24	Child Development
UNC-CH	42	PSYC28	Personality
UNC-CH	42	PSYC80	Abnormal Psychology
UNC-CH	42	PYS200	General Psychology
UNC-CH	38	RELI21	Introduction to Old Testament Literature
UNC-CH	38	RELI22	Introduction to New Testament Lit
UNC-CH	38	RELI29	Religion in America
UNC-CH	45	SOCI23	Crime & Delinquency
UNC-CH	45	SOCI30	Family and Society
WCU	52	BA133	Introduction to Business
WCU	22	LAW230	Legal Environment of Business
WCU	50	MUS101	Music Appreciation
WCU	50	MUS304	Jazz Appreciation
WCU	45	PSC215	European Polictical System
WCU	44	SOCW402	Diversity in Contemporary Society
WCU	44	SOCW420	Addictions

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APPENDIX D

E-LEARNING COURSE DEVELOPMENT COST

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NORTH CAROLINA UNIVERSITY SYSTEM **APPENDIX D**
E-LEARNING COURSE DEVELOPMENT COST

University Reporting	ECU				
Course in Sample	ADED 6450	COAD 6406	COAD 6415	HIMA 4153	MUSC 3018
Direct Salary/Benefits					
Instructor's Equated Hourly Rate X Number of Hours Spent					
Total Instructor's Salary Cost	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$4,000.00
Add benefits	\$282.15	\$282.15	\$282.15	\$282.15	\$752.40
Total Cost of Instructor's Time	\$1,782.15	\$1,782.15	\$1,782.15	\$1,782.15	\$4,752.40
I/T Staff's Equated Hourly Rate X Number of Hours Spent	\$21.74 20	\$21.74 20	\$21.74 20	\$22.39 20	\$21.53 30
Total I/T Staff's Salary Cost	\$434.80	\$434.80	\$434.80	\$447.80	\$645.90
Add benefits	\$62.92	\$62.92	\$62.92	\$64.80	\$93.46
Total Cost of I/T Staff Time	\$497.72	\$497.72	\$497.72	\$512.60	\$739.36
Other Staff's Equated Hourly Rate X Number of Hours Spent					
Total Other Staff's Salary Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Add benefits					
Total Cost of Other Staff Time	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Salaries, Wages & Benefits	\$2,279.87	\$2,279.87	\$2,279.87	\$2,294.75	\$5,491.76
Consultant(s) are experts in the area course. Designed templates for Blackboard Other Direct Costs (explain): for file (approximately 100 copies @ \$.05 per copy = \$5.00)					
Total Direct Costs	\$2,279.87	\$2,279.87	\$2,279.87	\$2,294.75	\$5,491.76
Indirect Costs					
Facility Costs, if applicable					
Total Course Development Costs	\$2,279.87	\$2,279.87	\$2,279.87	\$2,294.75	\$5,491.76
Explain any extraordinary circumstances affecting course development costs:					

NORTH CAROLINA UNIVERSITY SYSTEM **APPENDIX D**
E-LEARNING COURSE DEVELOPMENT COST

University Reporting	FSU				
Course in Sample	CRJC 302	CRJC 361	EDUC 307	EDUC 427	EDAM 650
Direct Salary/Benefits					
Instructor's Equated Hourly Rate	\$43.10	\$31.45	\$47.73	\$47.73	\$51.87
X Number of Hours Spent	120	120	120	120	120
Total Instructor's Salary Cost	\$5,172.00	\$3,774.00	\$5,727.60	\$5,727.60	\$6,224.40
Add benefits	\$938.20	\$684.60	\$1,077.36	\$1,077.36	\$1,170.81
Total Cost of Instructor's Time	\$6,110.20	\$4,458.60	\$6,804.96	\$6,804.96	\$7,395.21
I/T Staff's Equated Hourly Rate	\$39.26	\$39.26	\$39.26	\$39.26	\$39.26
X Number of Hours Spent	4	4	4	4	4
I/T Staff's Equated Hourly Rate					
X Number of Hours Spent					
Total I/T Staff's Salary Cost	\$157.04	\$157.04	\$157.04	\$157.04	\$157.04
Add benefits	\$21.15	\$21.15	\$21.15	\$21.15	\$21.15
Total Cost of I/T Staff Time	\$178.19	\$178.19	\$178.19	\$178.19	\$178.19
Other Staff's Equated Hourly Rate	\$127.18	\$127.18	\$128.58	\$128.58	\$126.37
X Number of Hours Spent	7	7	7	7	7
Total Other Staff's Salary Cost	\$890.26	\$890.26	\$900.06	\$900.06	\$884.59
Add benefits	\$147.07	\$147.07	\$154.01	\$154.01	\$150.38
Total Cost of Other Staff Time	\$1,037.33	\$1,037.33	\$1,054.07	\$1,054.07	\$1,034.97
Total Salaries, Wages & Benefits	\$7,325.72	\$5,674.12	\$8,037.22	\$8,037.22	\$8,608.37
Consultant(s) are experts in the area course. Designed templates for Blackboard Other Direct Costs (explain): for file (approximately 100 copies @ \$.05 per copy = \$5.00)	\$105.00	\$105.00	\$105.00	\$105.00	\$105.00
Total Direct Costs	\$7,430.72	\$5,779.12	\$8,142.22	\$8,142.22	\$8,713.37
Indirect Costs					
Facility Costs, if applicable	\$169.09	\$282.52	\$511.54	\$511.54	\$511.54
Total Course Development Costs	\$7,599.81	\$6,061.64	\$8,653.76	\$8,653.76	\$9,224.91
Explain any extraordinary circumstances affecting course development costs:					

NORTH CAROLINA UNIVERSITY SYSTEM **APPENDIX D**
E-LEARNING COURSE DEVELOPMENT COST

University Reporting	NCAT	NCSU				
Course in Sample	ENGL 331	CSC 512	CSC 576	CSC 750	ECE 738	MAE 533
Direct Salary/Benefits						
Instructor's Equated Hourly Rate	\$37.50					
X Number of Hours Spent	50					
Total Instructor's Salary Cost	\$1,875.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
Add benefits	\$352.69					
Total Cost of Instructor's Time	\$2,227.69	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
I/T Staff's Equated Hourly Rate						
X Number of Hours Spent						
I/T Staff's Equated Hourly Rate						
X Number of Hours Spent						
Total I/T Staff's Salary Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Add benefits						
Total Cost of I/T Staff Time	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Staff's Equated Hourly Rate						
X Number of Hours Spent						
Total Other Staff's Salary Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Add benefits						
Total Cost of Other Staff Time	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Salaries, Wages & Benefits	\$2,227.69	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
Consultant(s) are experts in the area course. Designed templates for Blackboard Other Direct Costs (explain): for file (approximately 100 copies @ \$.05 per copy = \$5.00)						
Total Direct Costs	\$2,227.69	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00
Indirect Costs						
Facility Costs, if applicable		\$293.41	\$293.41	\$324.88	\$324.88	\$325.88
Total Course Development Costs	\$2,227.69	\$1,793.41	\$1,793.41	\$1,824.88	\$1,824.88	\$1,825.88
Explain any extraordinary circumstances affecting course development costs:		\$5,000 paid to faculty the first time the course is offered: \$3,500 for teaching, \$1500 for adaptation of course materials for online environment; course lectures are uploaded to course locker as streaming media; for subsequent offerings of the course, faculty receive \$3,500 for teaching. All faculty compensation is additional compensation (overload pay).				

NORTH CAROLINA UNIVERSITY SYSTEM **APPENDIX D**
E-LEARNING COURSE DEVELOPMENT COST

University Reporting	NCCU		UNC-C
	NURS 4540	MATH 2010	LATN 2201
Course in Sample			
Direct Salary/Benefits			
Instructor's Equated Hourly Rate	\$35.71	\$35.71	\$37.60
X Number of Hours Spent	140	140	150
Total Instructor's Salary Cost	\$4,999.40	\$4,999.40	\$5,640.00
Add benefits	\$940.50	\$940.50	
Total Cost of Instructor's Time	\$5,939.90	\$5,939.90	\$5,640.00
I/T Staff's Equated Hourly Rate	\$20.19	\$20.19	
X Number of Hours Spent	1	1	
I/T Staff's Equated Hourly Rate			
X Number of Hours Spent			
Total I/T Staff's Salary Cost	\$20.19	\$20.19	\$0.00
Add benefits	\$3.80	\$3.80	
Total Cost of I/T Staff Time	\$23.99	\$23.99	\$0.00
Other Staff's Equated Hourly Rate			
X Number of Hours Spent			
Total Other Staff's Salary Cost	\$0.00	\$0.00	\$0.00
Add benefits			
Total Cost of Other Staff Time	\$0.00	\$0.00	\$0.00
Total Salaries, Wages & Benefits	\$5,963.89	\$5,963.89	\$5,640.00
Consultant(s) are experts in the area course. Designed templates for Blackboard Other Direct Costs (explain): for file (approximately 100 copies @ \$.05 per copy = \$5.00)			
Total Direct Costs	\$5,963.89	\$5,963.89	\$5,640.00
Indirect Costs			
Facility Costs, if applicable			
Total Course Development Costs	\$5,963.89	\$5,963.89	\$5,640.00
Explain any extraordinary circumstances affecting course development costs:			Instructor worked on development of the course over a period of 4 years, culminating in significant work during the Fall, 2004/Spring, 2005/Summer, 2005 period, which is the focus of the OSBM study. The faculty member's total estimated hours of effort (150) are aggregated & reported here at an hourly rate derived from 2004-2005 salary. The instructor was not released/assigned to complete this course development as part of his workload, but undertook it on his own initiative. For this reason, no benefits are included in the estimate of the value of the hours of work spent by the faculty member on the course development.

NORTH CAROLINA UNIVERSITY SYSTEM **APPENDIX D**
E-LEARNING COURSE DEVELOPMENT COST

University Reporting	UNC - CH				
Course in Sample	Designing Problem Tasks for mathematics	Education Workshop: Science Teaching	Special Populations	GEOG 59	PSYCH 127
Direct Salary/Benefits					
Instructor's Equated Hourly Rate	\$38.67	\$36.26	\$37.95		
X Number of Hours Spent	45	50	225		
Total Instructor's Salary Cost	\$1,740.15	\$1,813.00	\$8,538.75	\$4,000.00	\$4,000.00
Add benefits	\$327.32	\$341.03	\$1,606.14	\$732.00	\$732.00
Total Cost of Instructor's Time	\$2,067.47	\$2,154.03	\$10,144.89	\$4,732.00	\$4,732.00
I/T Staff's Equated Hourly Rate					
X Number of Hours Spent					
I/T Staff's Equated Hourly Rate					
X Number of Hours Spent					
Total I/T Staff's Salary Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Add benefits					
Total Cost of I/T Staff Time	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Staff's Equated Hourly Rate			\$13.29	\$20.00	\$20.00
X Number of Hours Spent			120	120	120
Total Other Staff's Salary Cost	\$0.00	\$0.00	\$1,594.80	\$2,400.00	\$2,400.00
Add benefits			\$230.77	\$347.00	\$347.00
Total Cost of Other Staff Time	\$0.00	\$0.00	\$1,825.57	\$2,747.00	\$2,747.00
Total Salaries, Wages & Benefits	\$2,067.47	\$2,154.03	\$11,970.46	\$7,479.00	\$7,479.00
Consultant(s) are experts in the area course. Designed templates for Blackboard Other Direct Costs (explain): for file (approximately 100 copies @ \$.05 per copy = \$5.00)		\$180.00			
Total Direct Costs	\$2,067.47	\$2,334.03	\$11,970.46	\$7,479.00	\$7,479.00
Indirect Costs					
Facility Costs, if applicable					
Total Course Development Costs	\$2,067.47	\$2,334.03	\$11,970.46	\$7,479.00	\$7,479.00
Explain any extraordinary circumstances affecting course development costs:				Instructors are paid a flat \$4,000 for developing a new online course. Both courses required approximately the same amount of time and effort by the instructional design staff.	

NORTH CAROLINA UNIVERSITY SYSTEM **APPENDIX D**
E-LEARNING COURSE DEVELOPMENT COST

University Reporting	UNC - CH		
Course in Sample	EPID 223	EPID 213	PUBH791
Direct Salary/Benefits			
Instructor's Equated Hourly Rate	\$47.12	\$38.27	\$44.13
X Number of Hours Spent	125	125	250
Total Instructor's Salary Cost	\$5,890.00	\$4,783.75	\$11,032.50
Add benefits	\$1,107.91	\$899.82	\$2,075.21
Total Cost of Instructor's Time	\$6,997.91	\$5,683.57	\$13,107.71
I/T Staff's Equated Hourly Rate	\$23.46	\$23.46	\$20.44
X Number of Hours Spent	40	10	115
I/T Staff's Equated Hourly Rate			31.71
X Number of Hours Spent			40
Total I/T Staff's Salary Cost	\$938.40	\$234.60	\$3,619.00
Add benefits	\$135.79	\$33.95	\$523.67
Total Cost of I/T Staff Time	\$1,074.19	\$268.55	\$4,142.67
Other Staff's Equated Hourly Rate		\$36.05	\$17.83
X Number of Hours Spent		140	40
Total Other Staff's Salary Cost	\$0.00	\$5,047.00	\$713.20
Add benefits		\$949.34	\$103.20
Total Cost of Other Staff Time	\$0.00	\$5,996.34	\$816.40
Total Salaries, Wages & Benefits	\$8,072.10	\$11,948.46	\$18,066.78
Consultant(s) are experts in the area course. Designed templates for Blackboard Other Direct Costs (explain): for file (approximately 100 copies @ \$.05 per copy = \$5.00)	\$20,310.00	\$16,001.00	\$8,750.00
Total Direct Costs	\$28,382.10	\$27,949.46	\$26,816.78
Indirect Costs			
Facility Costs, if applicable			
Total Course Development Costs	\$28,382.10	\$27,949.46	\$26,816.78
Explain any extraordinary circumstances affecting course development costs:			This course has a substantial number of guest lecturers requiring significantly more recording time and significantly more effort from our instructional design group. Also there was a change in instructor in mid-development due to a resignation so some work had to be redone, for example, recordings of lectures, etc.

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX D
E-LEARNING COURSE DEVELOPMENT COST

University Reporting	UNC-G			UNC-W		WSSU	
Course in Sample	BLS 300-91	BLS 320-91	MLS 610A-81	CRW 307	ENG 380	CSC 1306	IDS 3383
Direct Salary/Benefits							
Instructor's Equated Hourly Rate X Number of Hours Spent	\$13.89 360	\$13.89 360	\$41.08 360		\$62.50 120		\$43.88 200
Total Instructor's Salary Cost	\$5,000.40	\$5,000.40	\$14,789.77	\$5,000.00	\$7,500.00	\$3,250.00	\$8,776.00
Add benefits	\$940.58	\$907.07	\$2,682.86	\$940.50	\$1,410.75	\$248.62	\$1,269.89
Total Cost of Instructor's Time	\$5,940.98	\$5,907.47	\$17,472.63	\$5,940.50	\$8,910.75	\$3,498.62	\$10,045.89
I/T Staff's Equated Hourly Rate X Number of Hours Spent	\$21.32 270	\$16.94 250	\$19.81 270	\$19.23 15		\$33.65 100	\$33.65 100
I/T Staff's Equated Hourly Rate X Number of Hours Spent							
Total I/T Staff's Salary Cost	\$5,756.40	\$4,235.00	\$5,348.70	\$288.45	\$0.00	\$3,365.00	\$3,365.00
Add benefits	\$832.95	\$570.45	\$720.47	\$22.07		\$486.92	\$486.92
Total Cost of I/T Staff Time	\$6,589.35	\$4,805.45	\$6,069.17	\$310.52	\$0.00	\$3,851.92	\$3,851.92
Other Staff's Equated Hourly Rate X Number of Hours Spent	\$10.28 50	\$10.28 90	\$10.28 130	\$8.00 10		\$24.04 100	\$24.04 100
Total Other Staff's Salary Cost	\$514.00	\$925.20	\$1,336.40	\$80.00	\$0.00	\$2,404.00	\$2,404.00
Add benefits	\$74.38	\$124.62	\$180.01	\$6.12		\$347.86	\$347.86
Total Cost of Other Staff Time	\$588.38	\$1,049.82	\$1,516.41	\$86.12	\$0.00	\$2,751.86	\$2,751.86
Total Salaries, Wages & Benefits	\$13,118.70	\$11,762.75	\$25,058.22	\$6,337.14	\$8,910.75	\$10,102.40	\$16,649.67
Consultant(s) are experts in the area course. Designed templates for Blackboard Other Direct Costs (explain): for file (approximately 100 copies @ \$.05 per copy = \$5.00)							
Total Direct Costs	\$13,118.70	\$11,762.75	\$25,058.22	\$6,337.14	\$8,910.75	\$10,102.40	\$16,649.67
Indirect Costs							
Facility Costs, if applicable					\$0.00	\$169.10	\$180.21
Total Course Development Costs	\$13,118.70	\$11,762.75	\$25,058.22	\$6,337.14	\$8,910.75	\$10,271.50	\$16,829.88
Explain any extraordinary circumstances affecting course development costs:							

NORTH CAROLINA UNIVERSITY SYSTEM APPENDIX D
E-LEARNING COURSE DEVELOPMENT COST

University Reporting	WCU					
Course in Sample	EDL 612	GERN 493	GERN 593	PSC 303	SPED 400	SPED 500
Direct Salary/Benefits						
Instructor's Equated Hourly Rate X Number of Hours Spent						
Total Instructor's Salary Cost Add benefits						
Total Cost of Instructor's Time	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00
I/T Staff's Equated Hourly Rate X Number of Hours Spent	\$18.98 7	\$18.98 15	\$18.98 5	\$18.98 7	\$18.98 7	\$18.98 8
I/T Staff's Equated Hourly Rate X Number of Hours Spent						
Total I/T Staff's Salary Cost Add benefits	\$132.86 \$19.22	\$284.70 \$41.20	\$94.90 \$13.73	\$132.86 \$19.22	\$132.86 \$19.22	\$151.84 \$21.97
Total Cost of I/T Staff Time	\$152.08	\$325.90	\$108.63	\$152.08	\$152.08	\$173.81
Other Staff's Equated Hourly Rate X Number of Hours Spent						
Total Other Staff's Salary Cost Add benefits	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Cost of Other Staff Time	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Salaries, Wages & Benefits	\$3,152.08	\$3,325.90	\$3,108.63	\$3,152.08	\$3,152.08	\$3,173.81
Consultant(s) are experts in the area course. Designed templates for Blackboard Other Direct Costs (explain): for file (approximately 100 copies @ \$.05 per copy = \$5.00)						
Total Direct Costs	\$3,152.08	\$3,325.90	\$3,108.63	\$3,152.08	\$3,152.08	\$3,173.81
Indirect Costs						
Facility Costs, if applicable	\$24.97	\$25.84	\$30.05	\$30.58	\$20.81	\$23.01
Total Course Development Costs	\$3,177.05	\$3,351.73	\$3,138.69	\$3,182.67	\$3,172.89	\$3,196.82
Explain any extraordinary circumstances affecting course development costs:	Faculty paid flat rate of \$1,000 per credit hour to develop course. However, GA's report does not account for overhead used in development. Shared costs between development and delivery - such as server space, network infrastructure & maintenance, software licensing costs, office supplies, etc. exist but are extremely difficult to ascertain.					