

General Information Template for Academic Program Review

Degree Area and Level:

Ph.D. in Computer Science (CIP 11.0701) at NCA&T

Addressing UNC Tomorrow:

This proposed program would address several Recommendations within the UNC Tomorrow Report including the components to enhance Our Global Readiness (Recommendation 4.1), Our Citizens and Their Future: Access to Higher Education (Recommendation 4.2), Our Children and Their Future: Improving Public Education (Recommendation 4.3), Our Communities and Their Economic Transformation (Recommendation 4.4), and Our University’s Outreach and Engagement (Recommendation 4.7).

Role of Program in Relation to State and Regional Needs:

According to the Bureau of Labor Statistics, “Computer scientists should enjoy excellent job prospects. Graduates from Ph.D. programs in computer science and engineering are in high demand, and many companies report difficulties finding sufficient numbers of these highly skilled workers. In addition to openings resulting from rapid growth in the occupation, some additional job openings will arise from the need to replace workers who move into other occupations or who leave the labor force.”

Source: <http://www.bls.gov/oco/ocos304.htm>

US Labor Department Analysis:

- Summary – N/A
- Summary Data – Source: U.S. Department of Labor and America's Career InfoNet

Occupational Characteristics - North Carolina				
SOC Code	Occupation	Minimum Educ Level	2006-2016 Growth	2008 Wages
15-1011	Computer and Information Scientists, Research	Doctoral degree	Faster than average	\$93,170

Occupational Projections - North Carolina							
SOC code	Occupation	Employment			Average Annual Openings		
		Est 2006	Proj 2016	Change	Growth	Replace	Total
15-1011	Computer and Information Scientists, Research	358	442	23.5%	8	10	18

Wage Trends - North Carolina							
SOC Code	Occupation	Median Annual Wage					Change
		2004	2005	2006	2007	2008	2004 to 2008
15-1011	Computer and Information Scientists, Research	\$85,750	\$87,690	\$87,460	\$91,430	\$93,170	8.7%

Benchmarks for Wage Trends (all occupations)	2004	2005	2006	2007	2008	Change 2004 to 2008
North Carolina Median Wage	\$26,690	\$27,160	\$27,980	\$28,950	\$29,860	11.9%
North Carolina Mean Wage	\$33,960	\$34,460	\$35,520	\$36,900	\$38,230	12.6%
National Median Wage	\$28,770	\$29,430	\$30,400	\$31,410	\$32,390	12.6%
National Mean Wage	\$37,020	\$37,870	\$39,190	\$40,690	\$42,270	14.2%

Availability of Program Statewide (Enrollment and Degrees Awarded in Last 3 Years):

- *Public universities*

Enrollment			Academic Year					
			Fall 06	Spr 07	Fall 07	Spr 08	Fall 08	Spr 09
NCSU	Computer Science	PhD	134	129	153	147	166	160
UNC-CH	Computer Science	PhD	107	103	111	106	130	126

Number of Degrees Awarded			Academic Year		
			2006-2007	2007-2008	2008-2009
NCSU	Computer Science	PhD	15	14	21
UNC-CH	Computer Science	PhD	14	7	16

- *Private universities* – Source: <http://gradschool.duke.edu/about/statistics/admitcomp.htm>

Enrollment			Academic Year			
			2006-2007	2007-2008	2008-2009	2009-2010
Duke University	Computer Science	PhD	72	75	63	65

Number of Degrees Awarded			Academic Year		
			2006-2007	2007-2008	2008-2009
Duke University	Computer Science	PhD	8	12	11

Available in Online or Distance Format from UNC institutions:

Not available

Available or not from Academic Common Market:

Not available

NCA&T Campus enrollment and degrees awarded in similar programs at the Doctoral level:

(Based on two CIP digits – 11 CIP is the summary group for Computer and Information Sciences and Support Services under which Computer Science is a program.) NCA&T does not offer any Doctoral programs in this CIP category.

Campus Average of enrollment and degrees awarded in this degree area at the Doctoral level:

(Based on two CIP digits – 11 CIP is the summary group for Computer and Information Sciences and Support Services under which Computer Science is a program - over the last 3 Academic Years, Fall 2006-Fall 2009)

Campus Average			
	Number of Active Programs	Enrollment per Semester	Degrees Awarded per Year
NCSU	1	148	17
UNCC	1	101	8
UNC-CH	1	114	12
Campus Average:		121	12

NCA&T Campus Degree Programs added in the past three years:

- *Bachelor*
 - BS Atmospheric Sciences and Meteorology (11/09/2007)
- *Master*
 - MS Information Technology (09/07/2007)
- *Doctoral*
 - Ph.D. Computational Science and Engineering (01/08/2010)

NCA&T Campus Degree Programs discontinued in past three years:

- *Bachelor*
 - BS Visual Arts, Art Education (03/20/2009)
 - BS Music Education (03/20/2009)
 - BS Romance Languages and Literatures, French Secondary Education (03/20/2009)
 - BS Romance Languages and Literatures, Spanish Secondary Education (03/20/2009)
- *Master*
 - MS English Education (03/20/2009)
 - MS Mathematics Education (03/20/2009)
 - MS History Education (03/20/2009)
- *Doctoral*
 - N/A