

General Information Template for Academic Program Review

Degree Area and Level:

M.S. in Biomedical Sciences (CIP 26.0102) at East Carolina University

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 Communities and Their Economic Transformation (Recommendation 4.4), and Our Health (Recommendation 4.5).

Role of Program in Relation to State and Regional Needs:

According to the proposal, “The need for additional biomedical scientist is documented in “Advancing the Nation’s Health Needs,” a 2005 publication from the National Research Council. This publication states that most biomedical scientists receive their baccalaureate in another field and calls for the development of programs that will interest students and help with their transition into the biomedical field. Our proposed program should accomplish this as it is expected that some of the graduates will continue their training by enrolling in doctoral programs in the biomedical sciences. Finally, some of the graduates of this program will help the predicated need for teachers of the basic medical sciences at the community college level.”

US Labor Department Analysis:

- *Summary* – The Occupational Supply Demand System puts this degree code in the Medical Sciences category. The national information available for this category is, “An increasing focus on monitoring patients at hospitals and health care centers to ensure positive patient outcomes will contribute to job growth for epidemiologists. In addition, a heightened awareness of bioterrorism and rare, but infectious diseases such as West Nile Virus or severe acute respiratory syndrome (SARS) should spur demand for these workers. As hospitals enhance their infection control programs, many will seek to boost the quality and quantity of their staff.”
http://www.occsupplydemand.org/OSD_UnitOfAnalysis.aspx?CLUSCODE=096A-15&ST=NC&PathNo=1
- *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
19-1041	Epidemiologists	Master's degree	Faster than average	\$67,590
19-1042	Medical Scientists, Except Epidemiologists	Doctoral degree	Much faster than average	\$72,150

Occupational Projections - North Carolina							
SOC code	Occupation	Employment			Average Annual Openings		
		Est 2006	Proj 2016	Change	Growth	Replace	Total
19-1041	Epidemiologists	129	159	23.3%	3	4	7
19-1042	Medical Scientists, Except Epidemiologists	2,658	3,812	43.4%	115	82	197

Wage Trends - North Carolina							
SOC Code	Occupation	Median Annual Wage					Change 2004 to 2008
		2004	2005	2006	2007	2008	
19-1041	Epidemiologists	\$42,240	\$55,560	\$59,170	\$64,740	\$67,590	60.0%
19-1042	Medical Scientists, Except Epidemiologists	\$72,010	NA	NA	\$72,930	\$72,150	.2%

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 – Not available.
- Private universities – Not available.

Available or not from Academic Common Market:

Not available

ECU Campus enrollment and degrees awarded in similar programs at the Masters level:

(Based on two CIP digits – 26 CIP is the summary group for Biological and Biomedical Sciences under which Biomedical Sciences is a program)

Enrollment			Academic Year						
			Fall 06	Spr 07	Fall 07	Spr 08	Fall 08	Spr 09	Fall 09
ECU	Biology/Biological Sciences	MS	54	50	47	46	49	42	52
	Molecular Biology	MS	14	13	14	12	20	19	23

Number of Degrees Awarded			Academic Year		
			2006-2007	2007-2008	2008-2009
ECU	Biology/Biological Sciences	MS	19	10	14
	Molecular Biology	MS	3	5	3

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

(Based on two CIP digits – 26 CIP is the summary group for Biological and Biomedical Sciences under which Biomedical Sciences 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
ASU	1	30	9
ECSU	1	4	1
ECU	2	33	9
FSU	1	9	2
NCA&T	1	21	4
NCCU	2	29	5
NCSU	14	10	4
UNCC	2	18	7

UNC-CH	13	5	4
UNCG	3	16	10
UNCW	2	23	7
WCU	1	27	6
Campus Average:		19	6

ECU Campus Degree Programs added in the past three years:

- *Bachelor*
 - BA African and African American Studies (02/09/2007)
 - BS Applied Atmospheric Science (02/12/2010)
- *Master*
 - MS Sustainable Tourism (01/08/2010)
- *Doctoral*
 - AuD Audiology (06/13/2008)

ECU Campus Degree Programs discontinued in past three years:

- *Bachelor*
 - BS Marketing Education (03/20/2009)
 - BS Accounting (08/14/2009)
- *Master*
 - MM Music Therapy (03/20/2009)
 - MPT Physical Therapy (06/08/2007)
 - EdS Counselor Education – Intermediate Degree (03/20/2009)
 - CAS Library Science – Intermediate Degree (03/20/2009)
- *Doctoral*
 - N/A