

**STATE BOARD OF COMMUNITY COLLEGES
CURRICULUM PROGRAM APPLICATIONS
Fast Track for Action [FTFA*]**

Request:

The State Board of Community Colleges is asked to approve the curriculum programs at the listed colleges on the condition that equipment funds are available to the college and operating funds generated by the budget formula will permit the offering of this program without any special allocation of funds.

Johnston Community College
Mammography (Certificate) (C45830)

Mitchell Community College
Computer-Integrated Machining (A50210)

Richmond Community College
Nonprofit Leadership and Management (A25410)

Background:

Program applications must meet the following criteria in order to be placed on the Fast Track For Action (FTFA) program approval request presented to the State Board of Community Colleges as part of the consent agenda:

- The curriculum program title currently exists within the System and does not require the creation of a new program title and new curriculum standard;
- The application is complete, requires no further analysis or documentation, and has the endorsement of Academic Programs;
- There are no negative impact assessments from other colleges; and
- The college does not go outside of its service area for planning purposes.

Contact:

Ms. Jennifer Frazelle
Director

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Johnston Community College**

Mammography (Certificate) (C45830)

I. Program Planning

Johnston Community College is seeking approval for the Mammography (Certificate) (C45830) program to begin Fall 2016. The planning area is defined as the college's service area of Johnston County. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at Johnston Community College on November 5, 2015. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of Johnston Community College have certified the following:

- The proposed program will enhance the workforce of North Carolina, will provide educational and training opportunities consistent with the mission of the college, and will not duplicate the opportunities currently offered.
- They have assessed the need for the proposed program and the resources required to maintain a viable program and certify that the college can operate the proposed program efficiently and effectively within the resources available to the college.
- The college will complete a program accountability report including student success measures, enrollment trends, completion rates, and employment data three years after implementation of the program.

II. Program Rationale

Johnston Community College (JCC) indicates the following:

- The American Cancer Society estimated that in 2015 there would be 231,840 new cases of invasive breast cancer and 60,290 of in situ breast cancer diagnosed among women. In addition, they estimated a diagnosis of breast cancer for approximately 2,350 men. A mammogram is the single most effective method of early detection of breast cancer. The Affordable Care Act requires mammograms to be 100% covered under Medicare and new health insurance plans.
- Effective January 2016, candidates applying for mammography certification through the American Registry of Radiologic Technologists (ARRT) must document 16 hours of structured education.

Since the fall of 2006, JCC has offered a thirty-one contact hour continuing education seminar in mammography; however, students participating in the Mammography Initial Training Seminar who are not employed within a clinical facility, struggle to find clinical sites that will allow them to complete the clinical components required for Mammography Quality Standards Act and Program (MQSA) and ARRT mammography certification. As a curriculum program, the mammography certificate will provide students with the necessary clinical experience needed to become a registered mammographer.

- According to the most recent occupational projections published by the North Carolina Department of Commerce, the North Central prosperity region of the state (which includes Johnston County) is expected to experience the largest occupational growth, at 29%, for radiologic technologists (including mammographers) from 2012 to 2022. This projected occupational increase within the North Central prosperity zone is greater than that for the state as a whole for mammographers (24%) and for the nation (21%).
- Letters of support for the program were submitted to JCC by Raleigh Radiology and Johnston Health, a partner of UNC Health Care which employs more than 200 physicians within the county.
- Throughout the past year, 110 current and prospective health science students have been surveyed to gauge interest in the proposed mammography curriculum program. To date, 90% of the students surveyed have expressed an interest in pursuing the mammography certificate.

III. Impact of the Proposed Program on Other Programs

Two community colleges are approved to offer the Mammography program. This program contains a clinical component, therefore each college was provided with a program impact from JCC. **All colleges approved to offer the program are in agreement with the impact assessment.**

IV. Implementation of Collaborative Plan

Not Applicable

V. Curriculum Design

The proposed program of study is in compliance with the State Board approved curriculum standard.

VI. Curriculum Description as Designated on Curriculum Standard

The Mammography curriculum provides registered radiologic technologists the didactic and clinical experience necessary to become registered mammographers.

Course work includes clinical rotations to mammography facilities, breast anatomy/physiology, patient preparation/education, mammographic procedures, interventional procedures, image analysis, mammographic instrumentation, physics, quality control, and quality assurance.

Graduates will meet the Mammography Quality Standards Act initial training requirements for mammography and may be eligible to apply to take the American Registry of Radiologic Technologists (ARRT) post primary certification in Mammography.

Contact:

Ms. Renee Batts
Associate Director

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Mitchell Community College**

Computer-Integrated Machining (A50210)

I. Program Planning

Mitchell Community College (MCC) is seeking approval for the Computer-Integrated Machining (A50210) program to begin Fall 2016. The planning area is defined as the college's service area of Iredell County. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at MCC on October 28, 2015. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of MCC have certified the following:

- The proposed program will enhance the workforce of North Carolina, will provide educational and training opportunities consistent with the mission of the college, and will not duplicate the opportunities currently offered.
- They have assessed the need for the proposed program and the resources required to maintain a viable program and certify that the college can operate the proposed program efficiently and effectively within the resources available to the college.
- The college will complete a program accountability report including student success measures, enrollment trends, completion rates, and employment data three years after implementation of the program.

II. Program Rationale

Mitchell Community College indicated the following:

- The college performed a comprehensive employment analysis to determine the need for and general viability of a computer-integrated machining program. Surveys of local machining industries along with feedback from the college advisory committee revealed that there is a significant need for qualified machinists in Iredell County. There are currently 408 machining-related jobs within the college's service area paying a median wage of \$19.29/hour and 110 projected job openings from 2012-2022.
- The US Bureau of Labor Statistics estimates 6% positive growth in machinist occupations for 2014-24. Workers familiar with computer software applications and who can perform multiple tasks in a machine shop will have the best job opportunities.
- The College has offered a certificate in machining under its Mechanical Engineering Technology program with success and is prepared to expand course offerings to meet industry needs for higher-end skills in areas such as computer numeric controlled (CNC) machining processes. A modern, well-equipped machining laboratory is presently in place.

- The college has received a letter from Iredell-Statesville Schools indicating support for the machining program and will develop a Career and College Promise dual-enrollment career pathway for Computer-Integrated Machining. Seventeen high school students expressed interest in the machining program and a local employer survey indicated that approximately 40 employees would likely enroll in the program.
- The college has recently joined SkillsUSA as a means to proactively build support and student interest in the machining program. Plans are for students to partake in various club and skills activities while also engaging in local, state, and national student machining competitions in order to promote interest in the program while fostering contextualized, hands-on learning.
- The college received letters of support from J.C. Steele & Sons, Inc., and ProEdge Precision, LLC, in support of the Computer-Integrated Machining program.

III. Impact of the Proposed Program on Other Programs

Thirty-two colleges are currently approved to offer the Computer-Integrated Machining program. An impact assessment was sent to colleges located contiguous counties. **The colleges located in contiguous counties are in agreement with the impact assessment.**

IV. Implementation of Collaborative Plan

Not Applicable

V. Curriculum Design

The proposed program of study is in compliance with the State Board approved curriculum standard.

VI. Curriculum Description as Designated on Curriculum Standard

The Computer-Integrated Machining curriculum prepares students with the analytical, creative and innovative skills necessary to take a production idea from an initial concept through design, development and production, resulting in a finished product.

Coursework may include manual machining, computer applications, engineering design, computer-aided drafting (CAD), computer-aided machining (CAM), blueprint interpretation, advanced computerized numeric control (CNC) equipment, basic and advanced machining operations, precision measurement and high-speed multi-axis machining.

Graduates should qualify for employment as machining technicians in high-tech manufacturing, rapid-prototyping and rapid-manufacturing industries, specialty machine shops, fabrication industries, and high-tech or emerging industries such as aerospace, aviation, medical, and renewable energy, and to sit for machining certification examinations.

Contact Person:

Mr. Frank Scuiletti
Program Coordinator

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Richmond Community College**

Nonprofit Leadership and Management (A25410)

I. Program Planning

Richmond Community College is seeking approval for the Nonprofit Leadership and Management (A25410) program to begin Fall 2016. The planning area is defined as the college's service area of Richmond and Scotland counties. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at Richmond Community College on January 5, 2016. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of Richmond Community College have certified the following:

- The proposed program will enhance the workforce of North Carolina, will provide educational and training opportunities consistent with the mission of the college, and will not duplicate the opportunities currently offered.
- They have assessed the need for the proposed program and the resources required to maintain a viable program and certify that the college can operate the proposed program efficiently and effectively within the resources available to the college.
- The college will complete a program accountability report including student success measures, enrollment trends, completion rates, and employment data three years after implementation of the program.

II. Program Rationale

Richmond Community College (RCC) indicates the following:

- There are 82 registered 501-C(3) organizations within the service area of RCC. Currently, more than ten percent of individuals employed in the service area are employed by nonprofit organizations. Collectively, these nonprofits contribute almost \$200 million to the service area economy (2015, NC Center for Nonprofits).
- RCC conducted surveys among a sampling of registered nonprofit organizations in the service area. The survey results indicated support for the proposed Nonprofit Leadership and Management program. Furthermore, nine local nonprofit organizations stated in their survey response that they would consider hiring future Nonprofit Leadership and Management graduates.
- A survey of 240 students was conducted among currently enrolled RCC students, as well as students from the local high schools. Twenty-one students showed interest in enrolling in the proposed program or taking courses related to the program.

- According to the North Carolina Secretary of State's website, there are 343 registered nonprofits located in Scotland County, and 488 in Richmond County, North Carolina.
- There are more than 367,000 individuals employed by nonprofit organizations in North Carolina. About 2,500 of those individuals are employed by nonprofit organizations in the RCC service area. The average wage of a nonprofit employee within the Richmond Community College service area is \$34,273 per year. (2015, NC Center for Nonprofits)
- According to the 2015 NC Center for Nonprofits Report, Nonprofit organizations in North Carolina are struggling to respond to skyrocketing needs. Seventy-eight percent of NC nonprofit organizations saw more demand for their services in 2014, but only forty percent were able to meet the demands. The proposed program will help prepare graduates to better assist the nonprofit organizations in RCC service area in managing their resources and finding ways to generate more funds.
- Letters of support for the program were submitted to RCC by Scotland Community Health Clinic, Scotland Memorial Hospital, Richmond County Government, FirstHealth Richmond Memorial Hospital, and Rainbow 66 Storehouse, Inc.

III. Impact of the Proposed Program on Other Programs

One college is approved to offer the Nonprofit Leadership and Management program. This college is not located in a contiguous county to Richmond Community College, therefore, an **impact assessment was not required.**

IV. Implementation of Collaborative Plan

Not Applicable

V. Curriculum Design

The proposed program of study is in compliance with the State Board approved curriculum standard.

VI. Curriculum Description as Designated on Curriculum Standard

The Nonprofit Leadership and Management curriculum is designed to prepare individuals for a leadership or management role in the nonprofit sector.

Course work includes an overview of nonprofit organizations (NPO), philanthropy, legal and ethical concerns, funding issues, and strategic planning. Additional coursework introduces grant writing, international non-governmental organizations (NGO), public relations and sustainable communities.

Graduates should qualify for positions at various levels of leadership and management in the non-profit sector.

Contact:

Dr. Hilmi Lahoud
Program Coordinator