

**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 colleges and operating funds generated by the budget formula will permit the offering of these programs without any special allocation of funds.

**Craven Community College
Mechatronics Engineering Technology (A40350)**

**Nash Community College
Health and Fitness Science (A45630)**

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(s):

Jennifer Frazelle
Director

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Craven Community College
Mechatronics Engineering Technology (A40350)**

Program Planning: Craven Community College (CCC) is seeking approval for the Mechatronics Engineering Technology (A40350) program to begin Fall 2018. The planning area is defined as the college's service area of Craven County. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at CCC on August 3, 2017. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of CCC 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.

Program Rationale: Craven Community College indicated the following:

- The U.S. Bureau of Labor Statistics suggests that there are approximately 120 mechatronic technician jobs available statewide.
- Nationally, mean hourly wages for mechatronic technicians is \$27.08/hour and \$56,320 annually.
- A key concern for local industries including the Marine Corps Air Station Cherry Point, the Fleet Readiness Center, Bosch Corporation, Moen, and Weyerhaeuser, is locating and retaining individuals with critical skill sets closely aligned to those that will be taught within the proposed mechatronics program.
- The college has received letters of support from Eastern Carolina Workforce Development Board, Craven County Schools, and Craven 100 Alliance (Craven County Economic Development).
- During a Joint Industry Partner meeting, local companies suggested that there were immediate and future employment opportunities for graduates of a mechatronics program.

- CCC has worked with the local school system to develop a mechatronics pathway that is expected to funnel approximately 20% of the 100 students per year who have shown an interest in the program.
- The college expects that out of the large cohort of students engaged in local secondary programs, that at a minimum between 14-18 students are expected to enroll in the program annually through Career and College Promise or traditional programming.

Impact of the Proposed Program on Other Programs: Nineteen colleges are approved to offer the Mechatronics Engineering Technology program. None of these colleges are contiguous to the planning area of Craven Community College, **therefore an impact assessment was not required.**

Implementation of Collaborative Plan: Not Applicable

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

Curriculum Description as Designated on Curriculum Standard: *A course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.*

Contact(s):

Dr. Frank Sculetta
Program Coordinator

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Nash Community College
Health and Fitness Science (A45630)**

Program Planning: Nash Community College is seeking approval for the Health and Fitness Science (A45630) program to begin Fall 2018. The planning area is defined as the college's service area of Nash County. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at Nash Community College on November 14, 2016. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of Nash 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 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.

Program Rationale: Nash Community College (NCC) indicates the following:

- In June 2017, an advisory committee composed of external and internal stakeholders met and expressed overwhelming support for the development of the Health and Fitness Science program.
- The aging baby boomer generation will require increased physical care. Wellness-related careers will help meet this need. Recent changes in the country's health care industry are also driving the need for these careers because patients are expected to change their behavior/lifestyle related to their overall wellness. Job growth in this field is expected to grow thirteen percent over the next decade.
- In 2012, the North Carolina Nutrition and Physical Activity Surveillance System reported more than thirty percent of the children in Nash County were overweight or obese.
- The city manager for Rocky Mount notes, *"The City of Rocky Mount Parks and Recreation Department employs hundreds of full-time and part-time employees who help deliver health, wellness, and fitness programs and activities to the public. The*

future openings of Downtown Event Center will provide another facility to deliver more health, wellness and fitness programming.”

- The President and CEO at Nash UNC Health Care provided a letter of support to NCC that indicated, *“Healthcare related careers, beyond doctors and nurses, such as wellness coaches, diet and nutrition specialists, health and wellness consultants, lifestyle coaches, and healthcare management advocates are becoming more important and more crucial in supporting a healthier and more active lifestyle for our community. There is a demand for professionals with the skills, understanding, and expertise to meet the needs of citizens who are focused on care and prevention, not just management and treatment of chronic illness.”*
- The Parks, Recreation, and Cultural Resources Department director for Nashville noted, *“Parks and Recreation professionals have noticed a shift in recent years from active play and lifestyles to a more sedentary lifestyle. Training more professionals to help combat obesity, sitting-disease, and an overall shift away from inactive lifestyles will only benefit residents of the Town of Nashville, Nash County, and eastern North Carolina.*
- The Director of Career and Technical Education for the Nash-Rocky Mount Public Schools in her letter of support noted, *“Partnering with NCC in these efforts will provide rigorous and relevant pathways for students to explore health related career pathways and begin pursuing credentials needed to enter the field.”*
- NCC surveyed high school students in the eleventh and twelfth grade and noted that fifty-two percent were interested in health, fitness, and wellness careers.
- NCC has had initial conversations with East Carolina, North Carolina Wesleyan and Barton College on developing articulation agreements which would allow graduates of NCC’s program to transition into their exercise science and health and wellness programs.

Impact of the Proposed Program on Other Programs: Eleven community colleges are approved to offer the Health and Fitness Science program. One of these colleges is located in a contiguous county and was provided a program impact assessment from NCC. **The college located in the contiguous county is in agreement with the impact assessment.**

Implementation of Collaborative Plan: Not Applicable

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

Curriculum Description as Designated on Curriculum Standard:

The Health and Fitness Science program is designed to provide students with the knowledge and skills necessary for employment in the fitness and exercise industry. Students will be trained in exercise science and be able to administer basic fitness tests and health risk appraisals, teach specific exercise and fitness classes and provide instruction in the proper use of exercise equipment and facilities. Graduates should qualify for employment opportunities in commercial fitness clubs, YMCA's/YWCA's, wellness programs in business and industry, Parks & Recreation Departments and other organizations implementing exercise & fitness programs.

Contact(s):

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