STATE BOARD OF COMMUNITY COLLEGES
CURRICULUM PROGRAM APPLICATION
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 these programs without any special allocation of funds.

Central Carolina Community College
Collision Repair and Refinishing Technology (D60130)

College of The Albemarle
Agribusiness Technology (A15100)

Craven Community College
Aviation Management & Career Pilot Technology (A60180)

Johnston Community College
Applied Engineering Technology (A40130)

Lenoir Community College
Agriculture Education (A15330)

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
Central Carolina Community College
Collison Repair and Refinishing Technology (D60130)

Program Planning: Central Carolina Community College (CCCC) is seeking approval for the Collision Repair and Refinishing Technology (D60130) diploma program to begin Fall 2018. The planning area is defined as Chatham, Harnett, and Lee Counties. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at CCCC on September 28, 2017. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of CCCC 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: Central Carolina Community College indicated the following**:**

- The NC Department of Commerce suggests that local job demand for collision repair and refinishing technicians in the Triangle South Workforce Development region will increase by an estimated 22% through 2026.
- The NC Labor and Analysis Division estimates a state-wide increase of 10% in annual job openings. U.S. Department of Labor estimates a 13% increase, nationally, with 48,100 job openings.
- The college currently operates successful Automotive Restoration and Automotive Systems Technology programs that contain equipment, such as a spray booth, mixing equipment, ventilation equipment, tools, and automotive software, that can be shared across programs. Core coursework is also common across these programs. The college will offer the diploma program in a newly renovated West Harnett Center transportation facility.
- CCCC has developed Career and College Promise pathways for the various transport programs with good collaboration from the local school systems as well as strong student interest in the programs. A letter of support has been provided from Harnett County Schools.

- Letters of support were received by the college from Tramway Auto Body and Godfrey Body Shop

- Collision repair work is very supportive of self-employment opportunities, insurance estimating work, and job opportunities across diverse transportation sectors including heavy trucks, agricultural equipment, aircraft, motorcycles, boats and recreational vehicles.

Impact of the Proposed Program on Other Programs: Twenty colleges are approved to offer the Collision Repair and Refinishing Technology (A60130) program. An impact assessment was sent to colleges located in contiguous counties. **No negative impact responses were received.**

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 program that prepares individuals to apply technical knowledge and skills to repair, reconstruct and finish automobile bodies, fenders, and external features. Includes instruction in structure analysis, damage repair, non-structural analysis, mechanical and electrical components, plastics and adhesives, painting and refinishing techniques, and damage analysis and estimating.

Contact Person:
Dr. Frank Sculiletti
Program Coordinator

PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
College of The Albemarle
Agribusiness Technology (A15100)

Program Planning: College of The Albemarle (COA) is seeking approval for the Agribusiness Technology (A15100) program to begin Fall, 2018. The planning area is defined as the college's service area of Camden, Chowan, Currituck, Dare, Gates, Pasquotank, and Perquimans counties. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at College of The Albemarle on February 20, 2018. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of College of The Albemarle 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: College of The Albemarle (COA) indicates the following:

- There are entrepreneurial opportunities for graduates which the college will support through their Small Business Center. Future business owners can secure information they need for success, including advice on marketing, sales, bookkeeping, and management.
- If approved for the program, COA will pursue devolvement of a Career and College Promise pathway for high school students.
- If approved for the program, COA will pursue a bilateral agreement with North Carolina State University and the University of Mount Olive.
- The Albemarle region is keeping pace with growth seen at the national level of 3.7%+ and state level of 2.4%+ in Agri-Business. While fewer crop production jobs are anticipated, it is expected that growth will occur in wholesale equipment and in contract work with farms. (Northeastern Workforce Development Board)

- There is a strong representation of Future Farmers of America within the college's service area. There are 390 enrolled student members within the region.

- There is an aging agriculture workforce. The average age of principal farm operators in North Carolina is 58.9 years old. (US Department of Agriculture 2017 State Agriculture Overview). The proposed program will provide an opportunity to educate the next generation.

- The Interim President of the Elizabeth City Area Chamber of Commerce submitted a letter of support and indicated that: *the proposed program will satisfy our region's high demand for education and jobs in this field.*

- The Branch Manager of AgCarolina Farm Credit provided a letter of support and indicated that: *It is imperative that we meet the needs of Agriculture through providing an educational opportunity for our local students.*

- The Director of the Elizabeth City Economic Development Commission submitted a letter of support and stated: *The program would lay the foundation for agriculture-based entrepreneurialism, agribusiness growth and development, and a trained agribusiness workforce to meet existing industry needs.*

- The Agriculture Agent for Pasquotank County (NCSU) provided a letter of support and stated: *Agriculture is the number one industry in North Carolina at $84 billion dollars as well as the leading industry for the counties where the College of The Albemarle student base comes from. It is for that reason, the agricultural business program, at the College of The Albemarle would be important in providing well trained employees.*

- The Director of the Northeastern Workforce Development Board submitted a letter of support and stated: *Preparing a workforce for jobs in this industry is vital for our region. In addition to a generally strong job outlook in the fields of farm management, support occupations for animal production and forestry, farm and garden machinery and equipment merchant wholesalers, this industry offers above average wages ranging from annual salaries of $30,000- $56,000. Thus, the economic impact of an Agribusiness Technology Degree program holds promise for the emerging and existing businesses and job-seekers of Northeastern NC.*

Impact of the Proposed Program on Other Programs: There are ten colleges approved to offer the Agribusiness Technology program. Beaufort County Community College is the only contiguous college to College of The Albemarle. Beaufort County Community College is supportive of COA applying for the program.

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: *Designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education. Agribusiness Technology: A program that prepares individuals to manage agricultural businesses and agriculturally related operations within diversified corporations. Potential course work includes instruction in agriculture, agricultural specialization, business management, accounting, finance, marketing, planning, human resources management, and other managerial responsibilities.*

Contact(s):
Jennifer Frazelle
Director

PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Craven Community College
Aviation Management and Career Pilot Technology (A60180)

Program Planning: Craven Community College (CCC) is seeking approval for the Aviation Management and Career Pilot Technology (A60180) program to begin Spring 2019. 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 October 24, 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 employment opportunities for pilots, co-pilots, and flight engineers will increase by 5% over the next 20 years. Average wages for commercial pilots are estimated at $77,200 annually. State wages for airline pilots, co-pilots, and flight engineers are $97,300 annually.

- According to the Boeing 2016 Pilot Outlook study, nationally there will be 112,000 pilots between 2016 and 2035 with 30,000 expected to retire by 2026 due in part to age restriction limit for pilots for their pilot license which limits their employment to 65 years of age.

- Craven Community College is one of four community colleges offering Aviation Systems Technology. The addition of the pilot and management program would supplement the existing program which currently finds support due to the college's direct proximately to the MCAS Cherry Point and Fleet Readiness military facilities. The Airport Authority, local industry, military veterans, and potential employers were very supportive of the program.

- There are limited programs of this nature in operation across the state. The program would be supportive of the overall objectives of the North Carolina Aviation Development Task Force as outlined in its 2016 report entitled *Propelling North Carolina's Economy Through Aviation*

including providing support for the recent increased use of drones and growing market for that emerging industry.

- CCC received letters of support from Coastal Carolina Regional Airport, the City of Havelock, the City of New Bern, and Economic Development for Craven County.

- The college surveyed students and potential students at the local high schools (Havelock, New Bern, West Craven) and MCAS Cherry Point through the office of Professional & Personal Development. Approximately 14-18 students are expected to enroll in the program.

Impact of the Proposed Program on Other Programs: Five colleges are approved to offer the Aviation Management and Career Pilot Technology program. An impact assessment was sent to colleges located in contiguous counties. **No negative impact responses were received.**

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 Aviation Management and Career Pilot Technology curriculum prepares individuals for a variety of aviation and aviation-related careers including the commercial airlines, general aviation, the aerospace industry, the military, unmanned aircraft systems industries, and state and federal aviation organizations. Course work includes fundamentals of flight, aerodynamics, aircraft performance, meteorology, navigation, federal regulations, aviation management, unmanned aircraft systems, and instrument and commercial ground training, flight and simulator training, and entrepreneurship or business management training. Graduates may earn a commercial pilot certificate with an instrument rating, specialize in aviation management or in unmanned air systems, and may find employment as commercial, corporate, and military pilots, fixed base operators and airport managers, as pilots or technicians in the unmanned aircraft systems industry, or as flight instructors, and flight dispatchers.*

Contact(s):
Dr. Frank Scuiletti
Program Coordinator

PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Johnston Community College
Applied Engineering Technology (A40130)

Program Planning: Johnston Community College is seeking approval for the Applied Engineering Technology (A40130) program to begin Fall, 2018. 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 March 8, 2018. 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.

Program Rationale: Johnston Community College (JCC) indicates the following:

- Data from the U.S. Bureau of Labor Statistics suggests positive growth in the number of available engineering technician jobs over the next ten years including a 3.15% statewide increase and 6.1% regional increase that includes Johnston County.
- Recent expansions to Novo Nordisk ($1.2 billion economic investment), Grifols, Caterpillar, and OPW have resulted in the addition of nearly 1,000 jobs to the county including many positions related to facility maintenance and advanced manufacturing and automation processes that would be included within the program.
- The college currently has a very successful pre-apprenticeship with Caterpillar that utilizes the Industrial System Technology (IST) program. Caterpillar has provided a letter of support in favor of the college transitioning from the IST program to the Applied Engineering Technology programs which more appropriately labels the type of content that the company believes is supportive of their industry.
- The college surveyed employment need for graduates within a ten-mile radius of Johnston County for engineering technician positions indicating 65 available positions.

- The annual median pay for general engineering technicians is $54,000/year for individuals possessing an associate's degree. Mean wages for jobs at Novo-Nordisk's new plant will average $68,420.

- The college currently runs an unduplicated headcount of 46 students within the IST program that is transitioning to Applied Engineering Technology. The college will utilize existing facilities and faculty for the new program. JCC has already established a high school IST pathway at Johnston County Career and Technical Leadership Academy (CTLA Early College) that will bring enrollment numbers up to approximately 76 students.

Impact of the Proposed Program on Other Programs: Four community colleges are approved to offer the Applied Engineering Technology program. An impact assessment was sent to colleges located in contiguous counties. **No negative impact responses were received.**

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 to solve technical problems in various types of industry. The course work emphasizes analytical and problem-solving skills. The curriculum includes courses in safety, math, physics, electricity, engineering technology, and technology-specific specialty areas. Graduates should qualify for employment in a wide range of positions in research and development, manufacturing, sales, design, inspection, or maintenance. Employment opportunities exist in automation, computer, electrical, industrial, or mechanical engineering fields, where graduates will function as engineering technicians.

Contact(s):
Dr. Frank Scuiletti
Program Coordinator

PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Lenoir Community College
Agriculture Education (A15330)

Program Planning: Lenoir Community College (LCC) is seeking approval for the Agriculture Education (A15330) program to begin Fall, 2018. The planning area is defined as the college's service area of Greene, Jones and Lenoir counties. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at Lenoir Community College on March 26, 2018. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of Lenoir 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.

Program Rationale: Lenoir Community College (LCC) indicates the following:

- The college is currently approved for the Sustainable Agriculture program which they offer to both the traditional student and Career and College Promise students. The current Sustainable CCP pathway will also provide a pathway of related courses for students who would like to purse the proposed program.
- If approved for the program, LCC will pursue bilateral agreements with North Carolina State University, the University of Mount Olive and North Carolina Agricultural and Technical State University.
- Since Lenoir CC already has approval for the Sustainable Agriculture and the Horticulture programs, many of the resources (three greenhouses, livestock facilities, equipment and a land lab) are already in place.
- In searching for jobs related to agriculture education, the college discovered 155 job openings within the field for North Carolina (Indeed.com). Fourteen of these positions were located within fifty miles of LCC's main campus.
- There is a strong representation of Future Farmers of America within the college's service area. There are 390 enrolled student members within the region.

- Lenoir CC surveyed 227 of their regional high school students and college students who are currently taking agriculture or horticulture courses. Sixty-four of these students indicated an interest in the proposed program.

- The County Extension Director, NC Cooperative Extension, Lenoir County Center submitted a letter of support and indicated: *The establishment of a local and regional Agriculture Education program will open doors for so many interested students unable to attend larger universities in other locations. There would be many opportunities for students to work with the Cooperative Extension Service, the School Systems, Agriculture Producers and Businesses as well as a variety of community-based organizations.*

- The Eastern Region Agricultural Education Coordinator, NC State University, submitted a letter of support and indicated: *There is a great need for more agriculture education teachers in our state. As of July 1, 2017, there are 10 positions in eastern North Carolina that are vacant and have no prospects for hire. With the increase in middle school agriculture programs, our demand for more teachers with an agriculture background increases even more.*

- The retired Eastern Region Agricultural Education Coordinator submitted a letter of support for the proposed program and stated: *Since 1996, the number of teachers teaching Agricultural Education in the southeast region of North Carolina has doubled. During this same time, the number of students graduating from the traditional four-year institutions in North Carolina who prepare students to become agriculture teachers has remained constant. This has created such a critical shortage that in the area of North Carolina from I95 to the coast, there is an annual need of more than 40 agricultural teachers. By offering a two-year transfer program in agricultural education, LCC could be a tremendous help in filling the agriculture teacher shortage.*

Impact of the Proposed Program on Other Programs: Mitchell Community College is the only college approved to offer the Agriculture Education program. **There are not contiguous to LCC, 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: *Curriculum designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices. Students will learn the fundamentals of agriculture, focusing on crop production and business. Emphasis is placed on entrepreneurial and field training. Students will also learn the basic principles of*

our economic system and government policies and programs relating to agriculture. Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales; store management; farm operations; wholesale and retail produce management; nursery operations; and environmental and agricultural education.
Agriculture Education: A program that is designed to provide students with agriculture and education foundation courses. Course work focuses on the foundational aspects of agriculture and education theory. Students will be introduced to classroom theory and management as well as soil, plant, and animal science. This curriculum will provide students with the knowledge and skills to be eligible to become extension agents, farm management specialists, 4-H specialists, crop service representatives, agri-tourism tour guides or work in agriculture sales, or environmental community education programs. Successful completion of the program will provide students with an opportunity to articulate their coursework to university programs in Agriculture Education.

Contact(s):
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Director