

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 the program without any special allocation of funds.

Beaufort County Community College
Applied Engineering Technology (A40130)

Central Piedmont Community College
Practicing Nursing (Diploma) (D45660)

Gaston College
Applied Engineering Technology (A40130)

Mitchell Community College
Advertising and Graphic Design (A30100)

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):

Dr. Deana Guido
Director of Academic Programs

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Beaufort County Community College
Applied Engineering Technology (A40130)**

Program Planning: Beaufort County Community College is seeking approval for the Applied Engineering Technology (A40130) program to begin Fall, 2021. The planning area is defined as the college's service area of Beaufort, Hyde, Tyrrell, and Washington counties. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at Beaufort County Community College on March 16, 2021. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of Beaufort County 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: Beaufort County Community College (BCCC) indicates the following:

- Research provided through U.S. Department of Labor Bureau of Labor Statistics indicated that there were 430 annual job openings for Industrial Production Managers for North Carolina. Nationally, there are 11,700 job openings projected. Median annual salaries were listed at \$64,190.
- Data provided by NC Careeronestop for North Carolina for Industrial Engineering Technologists and Technicians were projected at 280 job openings and 5800 job openings nationally. NCWorks listed 883 state-wide job openings under the heading of Industrial Maintenance Technicians.
- Monster Jobs found 814 jobs for Industrial Technicians in North Carolina. Similar job searches include industrial maintenance, maintenance technician, maintenance mechanic, industrial maintenance mechanic, and industrial electrician. Data from Chmura Economics and Analytics LLC show well over 200 related occupations within four county service area of the College and six surrounding contiguous counties.

- The College currently offers multiple multi-craft certificate programs within registered apprenticeship programs for PAS Deutschland GmbH, River City Construction, Camfil Farr, and InterMarket Technology. Currently, participants with the registered apprenticeship programs are enrolled in certificate programs coded as General Occupation Technology. The Applied Engineering Technology AAS program will provide opportunities for graduates of the registered apprenticeship program to continue their education and apply all credits earned in their certificate programs to the Applied Engineering Technology degree program.
- The college received a letter of support for the Applied Engineering Technology program from PAS USA Incorporated (German injection molding company).
- The College already teaches all the courses within the proposed program of study except for two credit hours that students will select from either ELC 127 Software for Technicians or DFT 119 Basic CAD. Existing faculty within the Electrical Engineering Technology and Mechanical Engineering Technology programs will offer these courses.
- If approved for implementation, BCCC will be able to provide additional educational pathways for high school students to earn post-secondary Career and Technical Education (CTE) credentials with market value through Career and College Promise (CCP). The College has a robust array of CTE pathways within CCP, offering 67 CCP certificates and diplomas across a variety of meta-majors.

Impact of the Proposed Program on Other Programs: Seven 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: This course of study 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
Senior Program Administrator

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Central Piedmont Community College
Practical Nursing (D45660)**

Program Planning: Central Piedmont Community College is seeking approval for the Practical Nursing Diploma (D45660) program to begin Fall, 2021. The planning area is defined as the college's service area of Mecklenburg County. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at Central Piedmont Community College on November 11, 2020. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of Central Piedmont 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: Central Piedmont Community College (CPCC) indicates the following:

- The Bureau of Labor Statistics (BLS) reported that employment of Licensed Practical Nurses (LPN/LVNs) is greatest in long term care (38%) and acute care hospitals (16%). Job demand and increased job vacancies are projected to "grow 11% from 2018 to 2028, much faster than the average for all occupations." In Mecklenburg County, BLS states that employment of Licensed Practical Nurses is expected to grow 9% from 2019-2029.
- In January 2020, there were 517 vacant practical nurse positions posted within 50 miles of Charlotte, NC. A survey of job postings at local hospitals showed Caro Mont Regional Medical Center has 25 LPN jobs posted including positions for LPNs to join their Medical Surgical Academy Float Pool. Novant Health had 41 active LPN positions posted and Atrium Health had 218 LPN jobs posted.

- The LPN workforce is critical to long-term care and community-based health settings. The demographics of the aging population in Mecklenburg County will place an increasing demand on the health care system in settings outside of acute care due to chronic health care conditions and an aging population, making the need for practical nurses increase.
- Licensed Practical Nurses bridge the skill and wage gap between nursing assistants and registered nurses and offer another portal of entry to the nursing field for students who may need a shorter course of study to enter the workforce.
- Occupation Overview for Licensed Practical Nurses (SOC 29-2061) for Mecklenburg County reports 1858 jobs in 2020, a projected growth of 8.2 percent (153 jobs) by 2024 with an average compensation of \$46,256.
- Adult Care Homes listed by the Department of Health Services Regulation (DHSR) shows 4,087 patient beds for aging persons in Mecklenburg County in 2020. There are 15 home care facilities, 13 home health agencies, 7 hospice agencies, 9 acute care hospitals and 18 nursing homes in the service area. All are potential sources of employment for licensed practical nurses.
- The Dickson Foundation will direct a recent grant commitment to establishing and naming a practical nursing program at Central Piedmont Community College. The \$500,000 grant will provide \$350,000 for program costs and \$150,000 for scholarships. Other scholarships are also available to practical nursing students including the generous Bank of America scholarship for African American and Hispanic/Latinx students.
- The program will compliment the already established Associate Degree Nursing program. Updates for existing lab space and simulation space have been recently completed with a grant and CPCC state non- tech/equipment money. Classroom space and office space is available in the current nursing education space as well as the new 5th building that opened in the Fall of 2020.
- Currently, the only practical nursing program in Mecklenburg County is a private school which is cost prohibitive to many residents. The admissions specialist at CPCC receives 12-15 inquires each month about practical nursing. CPCC has enough applicants in pre-health programs who are not accepted into the Associate Degree Nursing program each year to potentially fill the seats in the LPN program, giving these students another portal of entry into the nursing profession.

- Clinical space is available for the practical nursing program at Novant Health Charlotte Market and Aldersgate Long Term Care in Charlotte. Novant Health System and Atrium Health System have made a commitment with Central Piedmont Community College to provide clinical space for the nursing programs. Most LPN clinical is completed in the long-term environment and does not compete for clinical space with local RN programs.

Impact of the Proposed Program on Other Programs: Forty community colleges are approved to offer the Practical Nursing program. This program contains a clinical component; therefore, each college was provided with a program impact assessment from Central Piedmont Community College. **All colleges approved to offer the program were 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 Practical Nursing curriculum provides knowledge and skills to integrate safety and quality into nursing care to meet the needs of the holistic individual which impact health, quality of life, and achievement of potential.

Course work includes and builds upon the domains of healthcare, nursing practice, and the holistic individual. Content emphasizes safe, individualized nursing care and participation in the interdisciplinary team while employing evidence-based practice, quality improvement, and informatics.

Graduates are eligible to apply to take the National Council Licensure Examination (NCLEX-PN) which is required for practice as a Licensed Practical Nurse. Employment opportunities include hospitals, rehabilitation/long term care/home health facilities, clinics, and physicians' offices.

Contact(s):

Dr. Lori H. Byrd
Associate Director

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Gaston College**

Applied Engineering Technology (A40130)

Program Planning: Gaston College is seeking approval for the Applied Engineering Technology (A40130) program to begin Fall, 2021. The planning area is defined as the college's service area of Gaston and Lincoln counties. All colleges were notified of the planning process for this program.

The proposed program was approved by the Board of Trustees at Gaston College on April 6, 2021. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of Gaston 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: Gaston College (GC) indicates the following:

- According to the Bureau of Labor Statistics, the median national average wage in 2019 for industrial/engineering technology positions was \$56,650. The U.S. Department of Labor's CareerOneStop data indicated that there were approximately 528 jobs available within the state. Shortages of qualified workers are expected due to the challenges associated with the increased technology utilized within the advanced manufacturing sector and also due to the increasing number of retirements of currently employed employees.
- Labor market information suggests that engineering technicians are highly sought after locally, regionally, state-wide, and nationally. NCWorks currently listed 883 state-wide job openings under the heading of Industrial Maintenance Technicians. Entry-level employment of Industrial Engineering Technicians most generally requires an associate degree. The program is expected to provide additional avenues for Registered Apprenticeship through Gaston College's Apprenticeship 321 program and can serve as a professional development tool for incumbent employees who are interested in promoting themselves within the organization.
- In Lincoln County, part of the service area of Gaston College, a recent survey of employers completed by the Lincoln Economic Development Association (LEDA)

indicated that local industries have a critical need for workers with skills such as electronics/electrical, mechanical, and general maintenance. Local engineering firms have indicated a need for general engineering technologists to work on the many transportation-related projects in the region (road additions and improvements, light rail construction, etc.). Local job data shows 123 annual job openings in the Charlotte region that would be available to graduates of this program.

- GC currently provides instruction for the courses that will be offered within the Applied Engineering Technology program across several diverse technology programs; therefore, little additional expense for offering the program will be incurred.
- Monster Jobs found 814 jobs for Industrial Technicians in North Carolina. Similar job searches include industrial maintenance, maintenance technician, maintenance mechanic, industrial maintenance mechanic, and industrial electrician, many of the disciplines that instruction will be provided for under the Applied Engineering Technology program.
- The college can offer the program under Career and College Promise to provide additional pathways for HS students to progress into the associate degree program following graduation. Interested students will have the opportunity to matriculate into a four-year degree in engineering technology within the university system.

Impact of the Proposed Program on Other Programs: Seven 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: This course of study 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
Senior Program Administrator

**PROGRAM APPLICATION
SUMMARY EVALUATION REPORT
Mitchell Community College
Advertising and Graphic Design (A30100)**

Program Planning: Mitchell Community College is seeking approval for the Advertising and Graphic Design (A30100) program to begin Fall 2021. 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 Mitchell Community College on June 24, 2020. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of Mitchell 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: Mitchell Community College (MCC) indicates the following:

- The Advertising and Graphic Design program will prepare students with marketable skills that will be applicable to a wide range of employment opportunities and applications in the field of advertising and graphic design. The program will also equip students with the skills necessary to freelance and work remotely as several careers in this field have steadily moved online.
- MCC currently offers the associate degree in Digital Media Technology. They are proposing to move from Digital Media Technology to Advertising and Graphic Design. MCC states that the Advertising and Graphic Design curriculum is a better representation of the skills in demand by employers and will provide a credential that is recognizable by name in the workforce tied to employment that offers a living wage.
- The current faculty employed by the college are academically credentialed to teach the Advertising and Graphic Design courses that will be offered. Current students who wish to graduate from the Digital Media program will be continue until graduation; however,

any new students enrolling will be placed into the Advertising and Graphic Design program.

- Employment data from EMSI supports the need for graduates in Advertising and Graphic Design programs within MCC's service area. The EMSI Q3 2020 Data Set listed 64 unique annual postings in the service area of the college for Graphic Designers/Advertising and Promotions Managers.
- According to EMSI, the median advertised salary for jobs in MCC's service area is \$41,600. In Iredell County, 36% of the current workforce Advertising and Graphic Design have a bachelor's degree or higher.
- In MCC's service area, the top three employers for graphic designers are Lowe's Companies, Creative Circle LLC, and R.R. Donnelly and Sons Co. Lowe's Companies, Incorporated, the largest employer of graphic designers and advertising/promotions managers, is headquartered in Mooresville where MCC has a campus. Iredell County's location and highway infrastructure allows for its residents to easily work in many of its contiguous counties. Iredell County is in a prime spot to offer this program and allow for students to move into openings in or outside of its service area.
- The program will be able to benefit from the use of current equipment in place at the college, however the goal for the content creation studio is to provide a workspace that is equipped with Macintosh computers and graphic design worktables. We will be utilizing both institutional funds and small grants to cover the cost of the lab, which will be in existing lab space at the Mooresville campus.
- A large percentage of the college's enrollment in digital media programming comes from early college students. Mitchell Community College's Director for Educational and External Partnerships supports the move from Digital Media to Advertising and Graphic Design as students and industry will more easily recognize the degree.
- The college intends to offer a Career and Technical Education (CTE) dual-enrollment pathway for Advertising and Graphic Design.
- Graduates of the Advertising and Graphic Design program will be qualified to work and manage profitable, community-based businesses. They will also be able to pursue entrepreneurial opportunities.

Impact of the Proposed Program on Other Programs: Twenty colleges are approved to offer the Advertising and Graphic Design (A30100) 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 Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

Contact(s):

Dr. Mary Olvera
Program Administrator