STATE BOARD OF COMMUNITY COLLEGES
Curriculum Program Application to Captive/Co-opted Groups

Stanly Community College
Sustainability Technologies (D40370)
Captive/Co-opted: Albemarle Correctional Institution (4580)

Program Planning: Stanly Community College (SCC) is seeking approval for the Sustainability Technologies diploma program (D40370) to begin Fall 2017 at Albemarle Correctional Institution (ACI), a state correctional facility in the college's service area.

The proposed program was approved by the Board of Trustees at Stanly Community College on October 13, 2016. Minutes from this Board meeting were attached to the program application. The President and the Board of Trustees of SCC have certified the following:

- They are supportive of providing this proposed program to inmate students at Albemarle Correctional Institution as part of the Prison Education Program (PEP) with the state's Division of Adult Correction.
- 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.
- They understand that the proposed program will require a program accountability report that will include items such as student success measures, enrollment trends, and completion rates three years after implementation of the program.
- College and prison officials have jointly planned the program to align with the NCCCS curriculum standard for the Sustainability Technology program, and prison officials have committed to providing appropriate classroom space and a sufficient number of students who meet the educational requirements of the program.
- The Division of Adult Correction has identified this as a high-priority educational offering and is supporting the program in the following ways: 1) ensuring the availability of a student cohort for the program; 2) paying the students' tuition; 2) providing appropriate classroom, lab, and computer resources; and 3) purchasing necessary textbooks and other instructional equipment/materials needed for program start-up.

Program Rationale: Stanly Community College indicates the following:

- This program will provide a strong complement to the college's existing Electrical Systems Technology, and Air Conditioning, Heating, and Refrigeration programs, allowing students to obtain additional marketable skills in green technology.
- The current certificate and diploma programs in Air Conditioning, Heating, and Refrigeration operate at or near capacity with 20 or more students each semester, as does the Electrical Systems Technology program. ACI has an inmate capacity of 816, so there is significant room for growth in this new program.

- The program will include training in sustainability issues, environmental science, energy use analysis, photovoltaic systems, thermal systems, green building and design concepts, and drafting. This combination of coursework will prepare students for work as Energy Auditors or as technicians in the renewable energy or construction industries.
- The Bureau of Labor Statistics (BLS) reports growing, entry-level job opportunities for energy auditors: "By increasing a building's energy efficiency, energy auditors can create a cleaner environment and help customers save money … As more home and building owners recognize the benefits of energy audits, the number of auditors will likely grow. The lack of education and training requirements to become an energy auditor provides an excellent opportunity for workers without a college degree." (March 15, 2012, https://www.bls.gov/green/energy_auditors/energy_auditors.htm)
- The BLS stopped tracking and reporting specifically on green jobs due to a budget sequestration in 2013 (https://www.bls.gov/bls/sequester_info.htm); however, they report the following: "If the growth of sustainability continues, more organizations will employ sustainability professionals. The benefits of this growth should be noticeable in many sectors of U.S. industries, from services, such as finance and health care, to manufacturing and construction."
- Nearly all technical courses will be delivered in a seated classroom/lab environment with an emphasis on both theory and hands-on exercises. Some General Education courses may be taught online through a Moodle server designated for ACI classes. Students would have facilitators to assist them in ACI's computer labs. As a result of the VERA-Pathways national inmate education grant project, SCC has experience with successfully delivering this kind of online class to ACI students.
- ACI already has fully equipped labs for Air Conditioning, Heating, and Refrigeration and for Electrical/Electronics Technology. Two internet-enabled computer labs are also already available. ACI has offered to convert one of its recreational rooms to become additional educational space. Part of this space will be designated as a Sustainability Technologies lab/classroom.

Impact of the Proposed Program on Other Programs: The program is restricted to inmates housed in a prison facility within Stanly Community College's service area, so it will not impact other colleges' programs.

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 Sustainability Technologies curriculum is designed to prepare individuals for employment in environmental, construction, renewable energy, or related industries, where key emphasis is placed on energy production and waste reduction along with sustainable technologies. Course work includes renewable energy, green building technology, and environmental technologies. Additional topics may include*

sustainability, energy management, waste reduction, renewable energy, site assessment, and environmental responsibility. Graduates should qualify for positions within the renewable energy, construction, and/or environmental industries. Employment opportunities exist in both the government and private industry sectors where graduates may function as renewable energy technicians, sustainability consultants, environmental technicians, or green building supervisors.

Contact Person:
Mr. Nate Humphrey, Director
Workforce Continuing Education – Training & Standards