



**Bladen Community College  
Facilities Master Plan**

**Submitted June 2, 2008**

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## **Executive Summary**

### **What is the purpose of the Facilities Master Plan?**

The purpose of the Facilities Master Plan (FMP) is to provide Bladen Community College (BCC) Board of Trustees, the community, the North Carolina Community College System (NCCCS), and the General Assembly with a detailed plan of the brick and mortar that is required to meet college growth over the next six years. The college Long Range Plan (LRP) key implications were used to provide a foundation for the FMP.

The planning sessions for the Facilities Master Plan (FMP) began on May 25, 2005 and has continued for the past three years. Each instructional department and support services met with Architect, Walter Vick and provided space needs that are required to accommodate future growth.

After approval of the LRP, the FMP was revisited by the College Executive Vice President, Lloyd Horne; Vice President of Instruction, Kathryn Geisen; Vice President of Student Services, Jeff Kornegay; Vice President of Continuing Education, Carolyn Walston; Director of Maintenance, Terry Nance; Director of Planning, Harriet Hobbs and Architect, Walter Vick to include the key implications that were developed from the LRP. A capital project list was developed and voted on, based on each department's space issues/needs. Each vice president presented floor plans from their department describing the space, building renovations, and new construction that is needed for future growth.

### **What were the results?**

A capital project list of ten items was developed from the LRP key implications and the planning committee voted on three capital projects.

**The top ten capital projects are:**

- #1: Construct a continuing education building
- #2: Construct an allied health building
- #3: Massive campus-wide renovations
- #4: Construct a classroom building
- #5: Construct a public service building
- #6: Construct an early childhood building
- #7: Purchase land near the college for future growth (\$5 million)
- #8: An Early College Building
- #9: Centralized Storage Building
- #10: Maintenance Operation Facility

**The top three prioritized capital projects are:**

#1: Construct a 19,890 square foot (two-story) continuing education building to include 10 smart classrooms, 3 labs (1 testing, 1 computer lab, 1 open computer lab), 13 office space, 1 faculty and staff break room, 1 student break room, teaching auditorium, conference room, 4 storage rooms, and restrooms. After completion of the new continuing education building, renovate building two upstairs and downstairs to include office space, and recreation space to accommodate student services. Each classroom and lab will be able to accommodate 30 students. See enclosure #1 for a detailed projected proposal of the new Continuing Education Building.

#2: Construct a 19,480 square foot allied health building to include 5 smart classrooms, 2 simulation labs with control rooms, 3 skill labs, 4 computer labs, 15 office space, 1 student study room, 1 student lounge, 2 conference rooms, 1 faculty and staff break room, 1 teaching auditorium, 1 work room, 6 storage rooms, and restrooms. After completion of the new allied health building, renovate the health education building to a science building to include 1 Bio-tech lab, 3 Chemistry/Biology labs, 1 computer lab, 3 classrooms, 4 office space, 2 supply rooms, 1 conference room, 1 break room, 1 computer lab, 1 prep room, and a green house with classroom space to include a mixing counter and exhaust. Each classroom and lab will be able to accommodate 30 students. See enclosure #2 for a detailed projected proposal of the new Allied Health Building. See enclosure #3 for a detailed projected proposal of the Science Building renovations/additions.

#3: Massive Campus-wide renovations to include upgrading campus doors, expanding entry ways, adding parking lots, installing handicap ramps, upgrading restrooms to be ADA compliance, re-keying campus locks, upgrading to energy efficient lighting both inside and outside, installing security and alarm systems. After completion of the new Learning Resource Center, renovate the old library to provide a Learning Center/tutorial lab to include 3 classrooms, 1 model classroom for Early Childhood, 1 lab to accommodate 50 students, 3 office spaces, and information technology closet. The old library systems such as the electrical, heating/air, computer usage (servers) will need to be evaluated. See enclosure #4 for a detailed copy of the college capital projects.

## Key Implications

The planning team used the CC Benefits report, multiple data sources, and enrollment projections to triangulate the quantitative data. Feedback from board members, external stakeholders, faculty and staff internal survey results, and three general questions provided by Dr. Betty Adams from the NCCCS office were used to triangulate the qualitative data. By triangulating both qualitative and quantitative data, we were able to find areas of consensus for predicting college growth.

A list of the key implications derived from this triangulation process follows.

### Key Implication One:

Expand existing programs and services to accommodate both projected population growth and industry needs.

- Associate Degree and Practical Nursing Programs
- Certified Nursing Assistant and Phlebotomy Programs
  - To accommodate anticipated growth in these programs the college will need additional nursing/health science labs, office space, and at least two smart classrooms.
- Early Childhood Program
  - To accommodate anticipated growth in this program the college will need to pursue grant and special funding to construct an Early Childhood Center on campus.
- Industrial Maintenance Program
  - To accommodate anticipated growth in this program the college will need to expand the existing welding and electrical shops, add smart classrooms and one “clean room” lab.
- Emergency Services: Fire, Medical, Law Enforcement
  - To accommodate anticipated growth in these programs the college will need to obtain support from legislators or other special funds to construct a Public Service Center on campus for Continuing Education and Curriculum use in these programs.
- Basic Skills: AHS, ABE, GED, ESL
  - To accommodate anticipated growth in this program the college will need to construct a Continuing Education building to include smart classrooms, office space, computer labs, and storage.

- High School programs: Industrial Maintenance, Learn and Earn On-line, Early College, Agribusiness Technology, College Transfer, General Education
  - To accommodate anticipated growth in high school services the college will need to upgrade/expand existing welding and electrical shops by adding smart classrooms, a “clean room” lab, additional science labs, and a mock Industrial Training room.
- Co-op and Internship Programs
  - To accommodate anticipated growth in numbers of students involved in Co-op and Internships classes, the college will need additional classroom and office space to accommodate these programs.

**Key Implication Two:**

Add new programs to meet needs arising from anticipated economic and population shifts in the service area.

- Agribusiness Technology
  - To accommodate the addition of this new program the college will need to add two smart classrooms, office space, science and bio-technology lab space (“clean room”)
- Bio-industry Workforce Training
  - To accommodate the addition of this new program the college will need to add smart classrooms, office space, and science lab space to include a “clean-room” environment.
- Landscape/Turf Grass Management
  - To accommodate the addition of this new program the college will need to add smart classrooms, and science lab space.
- Medical Laboratory Technology
  - To accommodate the addition of this new program the college will need to add a smart classroom, and science lab space.
- Bio-technical Lab Technician
  - To accommodate the addition of this new program the college will need to add smart classrooms, and science lab space to include a “clean-room” environment.

**Key Implication Three:**

Update and upgrade campus facilities to meet all standards for anticipated student population increases.

- Americans with Disabilities Act (ADA) compliance
  - To accommodate anticipated growth the college will need to expand current entry-ways, install electronic doors,

install additional handicap ramps, and expand current restrooms across the campus.

- Anticipated technology advances
  - To accommodate anticipated growth the college will need to update current computer labs, update wiring, and install bandwidth to include fiber optic cabling.
- Expand student/safety services including a security office/gate at a key campus entrance
- To accommodate anticipated student population increases the college will need:
  - To construct an adequate student lounge including hot food service
  - To install proper lighting campus-wide to ensure student safety.
  - To repair existing sidewalks to prevent tripping hazards.
  - To install effective security and alarm systems
  - To upgrade classroom doors and windows for environmental and security purposes

*A consolidated list of facilities needs from these key implications follows:*

- Expand existing classrooms to include smart classrooms
- Add science labs for new and existing programs
- Add “clean-room” lab(s) for new and existing programs
- Add office space for additional personnel
- Expand existing vocational shops
- Expand current restrooms
- Expand entry-ways
- Construct a student lounge
- Construct a Continuing Education Building
- Construct an Early Childhood Center
- Construct a Public Service Center
- Construct/open a satellite facility in the area of the county most impacted by BRAC

## **Needs Analysis**

The Basic Skills faculty and staff survey results revealed that ABE, AHS, GED, and ESL will grow at least 2% per year over the next six years. External stakeholders revealed that Bladen County high schools had 148 drop-outs and 304 who graduated during the 2006-2007 school year. External stakeholders cited the need to target both the Hispanic population and individuals without high school diplomas. The Basic Skills Department will need to expand ABE, AHS, GED, and ESL throughout the Bladen County service area over the next six years, to meet the needs of the Hispanic population and individuals without a high school education.

Continuing Education faculty and staff survey results revealed that health occupation courses such as Certified Nursing I and II, and Phlebotomy will grow at least 2% per year over the next six years. The CC Benefits report revealed that personal aides, home care aides, nursing aides, orderlies, and attendants will be critical occupations in high growth industries over the next six years. The Continuing Education department will need to expand certified nursing assistant I and II to meet occupational demands in this high growth program.

BCC curriculum faculty and staff survey results revealed that Associate Degree Nursing, College Transfer, General Education, and Practical Nursing will grow at least 2% per year over the next six years. The curriculum department will need to expand the Associate Degree Nursing Program and the Practical Nursing Program to meet the occupational needs in this high growth area. General Education Programs will need to expand, to accommodate the prerequisite requirements such as biology and chemistry. These are needed for transferring to another community college, to pursue other allied

health careers such as Physical Therapy, Surgical Technology, Radiology Technician, Pharmacy Technology, and Laboratory Technician.

According to the LRP key implications, BCC will need to construct new buildings, expand existing classrooms to include smart classrooms, and add science labs to accommodate growth for new and existing programs.

### **Site Analysis and Planning**

An infrastructure review of current facilities provided the following conclusions. Renovations are needed for building # 1, 2, 3, and 17; the health education, the basic law enforcement, the library, along with the electrical, mechanical, and welding shops. These renovations should include the following:

- Replace high pressure valves for closets and urinals
- Expand classrooms
- Renovate doors and hardware to meet ADA Compliance and building code requirements.
- Replace damage ceiling tiles due to leaking roofs with mold and mildew resistant tiles
- Replace original light fixtures with T5 or T8 energy efficient fixtures with electronic ballast
- Replace all single glass windows with insulated safety glass
- Replace/upgrade existing 30 year old HVAC/Electrical systems to meet code compliance with geo-thermal to improve energy efficiency
- Removal of hazardous material (abatement and testing of buildings in need of renovation)

The needed construction and renovation was prioritized into ten projects with each enabling the other to be completed as planned.

- **First** priority: construct a new continuing education building and renovate building #2 upstairs and downstairs, for student services.
- **Second** priority: construct a new allied health building, and renovate the current health building to a science building.
- **Third** priority: complete massive campus-wide renovations to include the above bulleted items, expanding entry ways, adding parking lots, installing

handicap ramps, upgrading restrooms to be ADA compliance, re-keying campus locks, upgrading to energy efficient lighting both inside and outside, installing security and alarm systems, and renovating the old library to a learning center/tutorial lab.

- **Fourth** priority: construct a thirteen classroom building to accommodate thirty students per classroom.
- **Fifth** priority: construct a public service building for emergency services and fire.
- **Sixth** priority: construct an early childhood center.
- **Seventh** priority: is purchase land near the college for future growth in the amount of 5 million dollars.
- **Eighth** priority: construct an Early College Building on campus.
- **Ninth** priority: construct a new building or renovate a current building for centralized storage space.
- **Tenth** priority: build a new maintenance shop or renovate the current maintenance shop.

All renovations and new construction will be energy efficient and ADA compliant. See enclosure # 5 for current photos of the college campus buildings. See enclosure # 6 for site evaluation and master planning by McBride Hess Design Group.

Based on BCC's experience with economic fluctuations and enrollment changes, during the next decade at least one or two year's enrollment will increase rapidly, as much as six to seven percent in a year. To prepare for the anticipated growth, BCC must be able to add new construction and to renovate and upgrade its existing facilities to add additional space to meet the growth needs of our service area.

**Enclosure #1**

**New Continuing Education Building Proposal**

**Enclosure #2**

**New Allied Health Building Proposal**

**Enclosure #3**

**Renovations/Additions to Science Building**

**Enclosure #4**  
**College Capital Project List**

**Enclosure #5**

**Photos of the college current buildings**

**Enclosure #6**

**Site Development by McBride Hess Design Group**