# PROPOSAL FOR A UNIFORM ARTICULATION AGREEMENT BETWEEN

# THE UNIVERSITY OF NORTH CAROLINA BACCALAUREATE ENGINEERING PROGRAMS

#### **AND**

# NORTH CAROLINA COMMUNITY COLLEGE SYSTEM ASSOCIATE IN ENGINEERING PROGRAMS

Approved by the State Board of Community Colleges on 02/20/2015

Approved by The UNC Board of Governors on 02/27/2015

I. Background .......3

Engineering Pathways is a joint project of the North Carolina Community College System and the University of North Carolina engineering programs focused on developing the pathways for students to begin engineering studies at a community college and then transfer as seamlessly

Authority to interpret and make changes in the AE to BSE AA rests with the AEBSETC. The AEBSETC is a twelve member co-chaired committee appointed by the Presidents of the North Carolina Community College System and The University of North Carolina. Questions concerning the AE to BSE

office (CAO) with an explanation of the institutional policy that may (appear to) be in conflict with AE to BSE AA policy. The CAO will forward unresolved questions to the AEBSETC for resolution. Each system will appoint one ex-officio non-voting member of the AEBSETC. For further details, see Appendices B and C.

If an AE to BSE student perceives that the terms of the AEBSETC have not been honored, he or she may follow the AE to BSE Transfer Credit Appeal Process as outlined in Appendix D. Each university and community college engineering program covered by this agreement will provide a link to that Appeal Process on its web site.

The AE to BSE AA establishes the procedures governing the transfer of credits for students who graduate from North Carolina Community College AE programs and apply to BSE programs at constituent institutions of The University of North Carolina. The AE to BSE AA does not address admission to a specific institution or BSE program within an institution.

- engineering program admissions are competitive, no student is guaranteed admission to an engineering program.
- b. A student who completes an AE with a GPA of at least 2.5 and a grade of Cor better in the AE courses listed in Appendix E will have fulfilled the engineering program entry requirements, and all courses in the Universal General Education Transfer Component will transfer with course equivalency to fulfill General Education requirements for the BSE.
- c. These students will receive at least 60 semester hours of academic credit upon admission to a UNC institution.

Certification of completion of the Associate in Engineering degree in is the responsibility of the community college at

The AE to BSE Transfer Committee (AEBSETC) is charged with ensuring compliance of institutional policies and practices regarding the AE to BSE AA. To that end, an AE to BSE AA Review Team comprised of two UNC representatives and two community college representatives will survey and review the engineering procedures of the five UNC institutions annually. The AEBSETC will report its findings to the chief academic officers of University of North Carolina and the North Carolina Community College System.

Participating North Carolina community colleges must receive State Board approval to offer the Associate in Engineering degree. Approval is based on the following based on the following criteria:

- I. Program of Study which is in compliance with the AE Ourriculum Standard
- II. Institutional certification of the following:
  - a. redentialed faculty for each course provided under the AE
  - b. Adequate facilities/resources to provide the AE
  - c. Evidence of sufficient student demand

The following North Carolina community colleges have received State Board approval to offer the Associate in Engineering degree:

Asheville Buncombe Technical Community College
Blue Ridge Community College
Brunswick Community College
Catawba Valley Community College
Central Piedmont Community College
Coastal Carolina Community College
College of The Albemarle
Craven Community College
Durham Technical Community College
Fayetteville Technical Community College

Guilford Technical Community College Forsyth Technical Community College Gaston College Johnston Community College Mitchell Community College Pitt Community College Articulation between the North Carolina Community College System and The University of North Carolina is a dynamic process. To ensure the currency of the AE to BSE, occasional modifications to that agreement may be necessary. These modifications may include the addition, deletion, and/or revision of courses on the transfer list. The ABBETC will receive requests for modification only upon the recommendation of the chief academic officer of the NOCCS or UNC. Additions, deletions, and modifications may be subject to faculty review under the direction of the ABSETC. Because the modification process involves faculty and administrative review, this process may require up to 12 months for final action. Decisions made by the ABSETC will be consistent with all pertinent accreditation standards.

Any member of the

All additions to the AE to BSE AA transfer list must be drawn from the Comprehensive Articulation Agreement in effect at the time that the request for the addition is made. Such additions may be recommended by a participating institution through the following process:

- 1. The chair of an engineering program at any one of the participating colleges or universities makes a written request for inclusion of a specific course as a universal general education transfer component course, a general education course, a pre-major or elective course to the CAO of their college or university. That CAO submits a written request for inclusion on the transfer list to The University of North Carolina CAO. That individual will consult with the CAO of the North Carolina Community College System.
- The CAOs or their designees at UNC and at NOCCS will then seek feedback and endorsement about whether to pursue the change from their respective campuses. A two-thirds favorable response is required for the change to be pursued.
- 3. The CAO of either system may submit the request for action to the ABSETCa minimum of thirty days prior to the next ABSETC meeting.
- 4. The ABSETC reviews the request. Any member of the ABSETC may request that a course be referred to the Faculty Review Committee. For all courses that are approved, the Committee records their action and rationale of action.
- 5. The NCCS Office or the UNC System Office will distribute notification of action to all the participating colleges or universities.

The chair of an engineering program at any one of the participating colleges or universities may request that a course be removed from the AE to BSE AA transfer list by following similar procedures as outlined in items 1-5 in the

The chair of an engineering program at any one of the participating colleges or universities may request a change in the designation of a course in the AE to BSE AA (i.e. Elective to General Education or Pre-Major) by sending the request and rationale to the CAOs of the two systems. Either of the system CAOs may submit the request to the AEBSETC for action. Any member of the AEBSETC may request that a course under consideration be forwarded to the Faculty Review Committee. The Faculty Review Committee will be asked to review the course and the proposed action.

# **Appendix C**

ABSETC members shall serve three-year, staggered terms. An individual may serve no more than two consecutive terms. Some initial appointments may be for 1 or 2 years to allow for staggering of terms.

ABSETC shall have co-chairs, one from the NCCCS members, and one from the UNC Members. Co-chairs shall be elected by the membership, and shall serve staggered terms.

### Sx representatives including:

- o One representative from the NCCS administration
- o Five representatives from the community college member schools. These five members will be nominated by their peers and reviewed for approval by the CAO of the NOCS Self-nomination with endorsement by peers is permitted.

## Sx representatives including:

- o One representative from the University of North Carolina
- Five representatives from each of the university engineering schools. These members will be nominated by their peers and reviewed for approval by the CAO of UNC.
   Self-nomination with endorsement by peers is permitted.

(

The completed form and any supporting documentation

You must specify the nature of the appeal and cite the specific AE to BSE AA language that is in contention. Appeals that do not include this information cannot be considered.

**Mathematics** (12 SHC) Calculus I is the lowest level math course that will be accepted by the engineering programs for transfer as a math credit. Students who are not calculus-ready will need to take additional math courses.

 MAT 271 Calculus I
 (4 SHC)

 MAT 272 Calculus II
 (4 SHC)\*

 MAT 273 Calculus III
 (4 SHC)\*

**Natural Sciences (12 SHC)** 

CHM 151 General Chemistry I (4 SHC)
PHY 251 General Physics I (4 SHC)
PHY 252 General Physics II (4 SHC)

Total General Education Hours Required: 42 SHC

### OTHER REQUIRED HOURS (18 SHC)

#### **Academic Transition (1 SHC)**

ACA 122 College Transfer Success (1 SHC)

Students must complete ACA 122 within the first 30 hours of enrollment.

Pre