

**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

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 as possible to one of the UNC engineering programs. The Engineering Pathways group, including 31 North Carolina Community College System participants as well as representatives from all



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 C or 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.

### **3. Certification of the Associate in Engineering degree completion**

Certification of completion of the Associate in Engineering degree is the responsibility of the community college at which the courses were completed. Transcript identification of the Universal General Education Transfer Component Courses is also the responsibility of

### C. Compliance Procedures

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.



Appendix B:  
**Associate InEngineering to Bachelor of Science In Engineering Transfer Committee  
Procedures**

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





## Appendix C

### AE to BSE Transfer Committee Membership

AEBSETC 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.

AEBSETC 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.

#### **NCCCS Members:**

- x Six representatives including:
  - o One representative from the NCCCS 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 NCCCS. Self-nomination with endorsement by peers is permitted.

#### **UNC Members**

- x Six representatives including:
  - o One representative from the University of North Carolina
  - o 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.







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

**Pre-major Elective (2 SHC)**

EGR 150 Introduction to Engineering	(2 SHC)
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**Other General Education and Pre-major Elective Hours: (15 SHC)**

Select 15 SHC of courses from the following courses classified as major, elective, or general education course within the Comprehensive Articulation Agreement. 6 W X G H Q W V P X V W P H H W W K H U H F H I and/or health and physical education requirements, if applicable, prior to or after transfer to the senior institution.

Students should choose courses appropriate to the specific university and engineering major requirements.

BIO 111	General Biology I	(4 SHC)
CHM 152	General Chemistry II	(4 SHC)
COM 110	Introduction to Communication	(3 SHC)
CSC 134	C++ Programming	(3 SHC)
CSC 151	JAVA Programming	(3 SHC)
DFT 170	Engineering Graphics	(3 SHC)
ECO 252	Principles of Macroeconomics	(3 SHC)
EGR 210	Intro to Electrical/Computer Engineering Lab	(2 SHC)
EGR 212	Logic System Design I	(3 SHC)
EGR 215	Network Theory I	(3 SHC)
EGR 216	Logic and Network Lab	(1 SHC)
EGR 220	Engineering Statics	(3 SHC)
EGR 225	Engineering Dynamics	(3 SHC)
EGR 228	Introduction to Solid Mechanics	(3 SHC)
HUM 110	Technology and Society	(3 SHC)
MAT 280	Linear Algebra	(3 SHC)
MAT 285	Differential Equations	(3 SHC)