

**TRANSFER ARTICULATION AGREEMENT**

**between**

**BROOKDALE COMMUNITY COLLEGE**

**&**

**THE COLLEGE OF NEW JERSEY**

**for the**

**Associate in Science in Engineering Program**

**and the**

**Bachelor of Science in Biomedical Engineering.**

**Bachelor of Science in Civil Engineering,**

**Bachelor of Science in Electrical Engineering,**

**Bachelor of Science in Mechanical Engineering**

Brookdale Community College:

Engineering Science

Associate in Science (A.S) - Transfer

The Engineering Program is a two-year Associate in Science degree program designed to facilitate transfer into junior year engineering programs at most colleges and universities.

The College of New Jersey:

School of Engineering

The School of Engineering offers four-year baccalaureate degrees in engineering leading to a Bachelor of Science in Biomedical Engineering (BSBME), Bachelor of Science in Civil Engineering (BSCiv), Bachelor of Science in Computer Engineering (BSCoE), Bachelor of Science in Electrical Engineering (BSEE), Bachelor of Science in Mechanical Engineering (BSME), and Bachelor of Science in Engineering Science (BSES) with specialization in Engineering Management. The programs are designed for entering freshmen and for transfer students with an associate degree from a community college who typically enter the sequence at the beginning of junior year.

Conditions, Equivalencies and Recommendations have been identified by the two institutions participating in this Agreement.

**I. Criteria for admission to the College of New Jersey and/or to the upper level engineering programs:**

1. Consideration for admission to one of the engineering programs offered by the TCNJ School of Engineering requires that applicants meet The College of New Jersey transfer student admission criteria is competitive, and is dependent on program enrollment capacity limitations.
2. The College of New Jersey requires a minimum grade of "C" in any course considered for transfer.
3. This agreement is predicated upon the current design of the Engineering program as specified in the 2013-2014 Academic Catalog at Brookdale Community College and the various engineering programs at The College of New Jersey as specified in the 2013-2014 Undergraduate Bulletin.
4. This agreement is subject to modification to maintain the accreditation status of the engineering programs at TCNJ by the Engineering Accreditation Commission of ABET. Each institution shall inform the other about anticipated curriculum changes which may impact upon this agreement.

**II. Courses, Equivalencies and/or Area Requirements:**

The TCNJ engineering curricular are based on a course-unit system (a course unit translates to 4 semester hours). Course equivalency tables for The College's engineering programs follow.

**III. Liberal Learning Requirements:**

As per the comprehensive state-wide transfer agreement, students AS degrees meet TCNJ liberal learning requirements, except when specific courses for major requirements, prerequisites, certification, or accreditation are not included among those completed at the community college. TCNJ engineering programs require the following Liberal Learning equivalencies and prerequisites: Microeconomics, Liberal Learning Art and Liberal Learning Ethics. These requirements are built into the equivalency tables presented in Section II of this agreement.

**BROOKDALE CO. COLLEGE**  
AS ENGINEERING  
(INDUSTRIAL TECH ELECTIVES)

**THE COLLEGE OF NEW JERSEY**  
BS MECHANICAL ENGINEERING

**First Semester**

ENGI 105	1 cr
CHE 101	4 cr
ENGL 121	3 cr
MATH 171	4 cr
Humanities (ARTH105)	3 cr
PHY 121	4 cr

ENG 095	0 cr
CHE 201	4 cr
WRI 101	0 cr
MAT 127	4 cr
TST 161	4 cr
PHY 201	4 cr

**Second Semester**

CADD 121	2 cr
CHE 102	4 cr
ENGL 122	3 cr
MATH 172	4 cr
PHY 122	4 cr

ENG 142	4 cr
CHE 202	4 cr
WRI 102	4 cr
MAT 128	4 cr
PHY 202	4 cr

**Third Semester**

COMP 137	3 cr
ENGI 101	3 cr
MATH 273	3 cr
HIST 105	3 cr
ENGI 251	3 cr

CSC 215	4 cr
ENG 222	4 cr
MAT 229	4 cr
LL History	4 cr
ENG 312	4 cr

**Fourth Semester**

ENGI 102	3 cr
ECON 106	3 cr
MATH 274	4 cr
PHY 223	4 cr
Humanities (PHII 227)	3 cr
ENGI 205	3 cr

ENG 262	4 cr
ECO 101	4 cr
Elective Credit	4 cr
Elective Credit	
IDS 152	4 cr
MEC 251	4 cr

**Summer**

ENGI 206	3 cr
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ENG 152	4 cr
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*TCNJ second year requirements of ENG 272, ENG 232 and MEC 263 would be met during the third year in lieu of LL courses satisfied by AS degree*

**BROOKDALE CO. COLLEGE**  
AS ENGINEERING  
(CIVIL TECH ELECTIVES)

**THE COLLEGE OF NEW JERSEY**  
BS CIVIL ENGINEERING

**First Semester**

ENGI 105	1 cr
CHE 101	4 cr
ENGL 121	3 cr
MATH 171	4 cr
Humanities (ARTH105)	3 cr
PHY 121	4 cr

ENG 095	0 cr
CHE 201	4 cr
WRI 101	0 cr
MAT 127	4 cr
TST 161	4 cr
PHY 201	4 cr

**Second Semester**

CADD 121	2 cr
CHE 102	4 cr
ENGL 122	3 cr
MATH 172	4 cr
PHY 122	4 cr

ENG 142	4 cr
CHE 202	4 cr
WRI 102	4 cr
MAT 128	4 cr
PHY 202	4 cr

**Summer**

ENGI 261	4 cr
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CIV 211	2 cr
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**Third Semester**

COMP 137	3 cr
ENGI 101	3 cr
MATH 273	3 cr
HIST 105	3 cr
ENGI 251	3 cr
ENVR 101	4 cr

CSC 215	4 cr
ENG 222	4 cr
MAT 229	4 cr
LL History	4 cr
ENG 312	4 cr
PHY 120	4 cr

**Fourth Semester**

ENGI 102	3 cr
ECON 106	3 cr
MATH 274	4 cr
PHY 223	4 cr
Humanities (PHII 227)	3 cr
ENGI 205	3 cr

ENG 262	4 cr
ECO 101	4 cr
ENG 272	4 cr
Elective Credit	
IDS 152	4 cr
MEC 251	4 cr

**Summer**

ENGI 206	3 cr
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ENG 152	4 cr
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*TCNJ second year requirements of CIV 213 and CIV 263 would be met during the third year in lieu of LL courses satisfied by AS degree*

**BROOKDALE CO. COLLEGE**  
**AS ENGINEERING**  
**(ELECTRICAL TECH ELECTIVES)**

**THE COLLEGE OF NEW JERSEY**  
**BS ELECTRICAL ENGINEERING**

**First Semester**

ENGI 105	1 cr
CHE 101	4 cr
ENGL 121	3 cr
MATH 171	4 cr
Humanities (ARTH105)	3 cr
PHY 121	4 cr

ENG 095	0 cr
CHE 201	4 cr
WRI 101	0 cr
MAT 127	4 cr
TST 161	4 cr
PHY 201	4 cr

**Second Semester**

CADD 121	2 cr
CHE 102	4 cr
ENGL 122	3 cr
MATH 172	4 cr
PHY 122	4 cr

ENG 142	4 cr
CHE 202	4 cr
WRI 102	4 cr
MAT 128	4 cr
PHY 202	4 cr

**Summer**

ECON 106	3 cr
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ECO 101	4 cr
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**Third Semester**

COMP 137	3 cr
ENGI 101	3 cr
MATH 273	3 cr
HIST 105	3 cr
ENGI 251	3 cr
ENGI 241	4 cr

CSC 215	4 cr
ENG 222	4 cr
MAT 229	4 cr
LL History	4 cr
ENG 312	4 cr
ENG 212/214	6 cr

**Fourth Semester**

MATH 274	4 cr
PHY 223	4 cr
Humanities (PHIL 227)	3 cr
ENGI 242	3 cr
ENGI 252	3 cr

ENG 272	4 cr
PHY 321	4 cr
IDS 152	4 cr
ELC 251/333	6 cr
Elective Credit	

*TCNJ second year requirements of CSC 310 and ELC 321 would be met during the third year in lieu of LL courses satisfied by AS degree*

**BROOKDALE CO. COLLEGE**  
AS ENGINEERING  
(ELECTRICAL TECH ELECTIVES)

**THE COLLEGE OF NEW JERSEY**  
BS BIOMEDICAL ENGINEERING

**First Semester**

ENGI 105	1 cr
CHE 101	4 cr
ENGL 121	3 cr
MATH 171	4 cr
Humanities (ARTH105)	3 cr
PHY 121	4 cr

ENG 095	0 cr
CHE 201	4 cr
WRI 101	0 cr
MAT 127	4 cr
TST 161	4 cr
PHY 201	4 cr

**Second Semester**

CADD 121	2 cr
CHE 102	4 cr
ENGL 122	3 cr
MATH 172	4 cr
PHY 122	4 cr

ENG 142	4 cr
CHE 202	4 cr
WRI 102	4 cr
MAT 128	4 cr
PHY 202	4 cr

**Summer**

BIOL 101/102	8 cr
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BIO 185	4 cr
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**Third Semester**

COMP 137	3 cr
ENGI 101	3 cr
MATH 273	3 cr
HIST 105	3 cr
ENGI 251	3 cr
ENGI 241	4 cr

CSC 215	4 cr
ENG 222	4 cr
MAT 229	4 cr
LL History	4 cr
ENG 312	4 cr
ENG 212/214	6 cr

**Fourth Semester**

ENGI 102	3 cr
MATH 274	4 cr
PHY 223	4 cr
Humanities (PHIL 227)	3 cr
ENGI 242	3 cr
ENGI 252	3 cr

ENG 262	4 cr
ENG 272	4 cr
Elective Credit	
IDS 152	4 cr
ELC 251/333	6 cr
Elective Credit	

**Summer**

ECON 106	3 cr
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ECO 101	4 cr
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*For the BS Biomedical Engineering, Electrical Specialization, TCNJ second year requirements of BME 251 and ELC 321 would be met during the third year in lieu of LL courses satisfied by AS degree.*

*For the BS Biomedical Engineering, Mechanical Specialization, TCNJ second year requirements of BME 251 and MEC 251/MEC 263 would be met during the third year in lieu of LL courses satisfied by AS degree.*

This agreement is predicated upon the current design of the curriculum for the Associate in Science (A.S) Degree in Engineering at Brookdale Community College and the current design of the engineering curricula at The College of New Jersey and is effective for students entering TCNJ in Fall 2014 and thereafter. Subsequent changes to The College of New Jersey engineering curricula will apply to Brookdale Community College students in the same way as to The College of New Jersey students at the same stage of their program.

The College of New Jersey

Brookdale Community College

Steven Schreiner  
STEVEN SCHREINER  
Dean, School of Engineering

Michael Quissaunee *Payroll 9/30/13*  
MICHAEL QAISSAUNEE  
Chair, Engineering and Technologies Dept.

Jacqueline Taylor  
JACQUELINE TAYLOR  
Provost/ Vice-President for Academic Affairs

*Keeghan 10-1-13*  
Dianna Phillips  
DIANNA PHILLIPS  
Executive Vice-President, Educational Services

Sept 23, 2013  
Date

10.2.2013  
Date

Maureen Murphy for Pres Murphy  
MAUREEN MURPHY  
President  
9 Oct 2013  
Date