COORDINATED ENGINEERING PROGRAM

BROOKLYN COLLEGE, CUNY

NEW YORK UNIVERSITY-TANDON SCHOOL OF ENGINEERING

ARTICULATION IN:

- ***CHEMICAL and BIOMOLECULAR ENGINEERING (CBE)***
- ***CIVIL and URBAN ENGINEERING (CUE)***
- ***COMPUTER ENGINEERING (CompE)***
- ***ELECTRICAL ENGINEERING (EE)***
- ***MECHANICAL and AEROSPACE ENGINEERING (MAE)***

As of Fall 2024 (October 28)

For more information:

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BROOKLYN COLLEGE & NYU-TANDON

Articulation in **CHEMICAL and BIOMOLECULAR ENGINEERING** leading to **NYU SoE BS CBE**

BC Course		Credit	Equivalent NYU-TADON Course		Credit at Tandon
MATH 1201	Calculus I	4	MA-UY 1024	Calculus I	4
MATH 1206	Calculus II	4	MA-UY 1124	Calculus II	4
MATH 2201	Multivariable Calculus	4	MA-UY 2114	Calculus III	4
MATH 2101	Linear Algebra	3		Free Elective-1	3
MATH 2206	Introduction to Differential Equations	4	MA-UY 2034	Linear Algebra & Differential Equations	4
PHYS 1150	Calculus-based General Physics I (with Lab)	5	PH-UY 1013 PH-UY 2023	Mechanics Electricity, Magnetism & Fluids + Lab I	3
PHYS 2150	Calculus-based General Physics I (with Lab)	5	+ 2121 PH-UY 2033 +2131	Wave, Optics, Thermodynamics + Lab II	4 4
PHYS 3200/ 3400	Engineering Mechanics/ Thermodynamics	4		Free Elective 2	3
PHYS 3300	Electrical Circuit Analysis	4	EG-UY 1004	Intro to Engineering & Design	4
CHEM 1200	General Chemistry I	3.5	CM-UY 1003	General Chemistry	3
CHEM 1201	General Chemistry I lab	1.5	CM-UY 1001	General Chemistry I lab	1
CHEM 2200 + 2201	General Chemistry II + lab	5*			
CHME 2110	Principles of Chemical Reactivity	2		Free Elective 4	2
CHEM 3511 +3512	Organic Chemistry I + Lab	5	CM-UY 2213	Organic Chemistry I	3
CHEM 3521 +3522	Organic Chemistry II + Lab	5	CM-UY 2223	Organic Chemistry II	3
BIOL 1001 BIOL 1002	General Biology I General Biology II	4.5* 4.5	BMS-UY 1003+1001	Intro to Cell & Molecular Biology + Lab	4
CISC 1115	Intro to Programming using JAVA	4		Free electives 3	3
ENGL 1010 ENGL 1012	English Composition I English Composition II	3 3	EXPOS-UA 1 EXPOS-UA 22	Writing the Essay The Advanced College Essay	4 4

*Prerequisite courses

Credit Transferred to NYU = 64

BROOKLYN COLLEGE & NYU-TANDON

Articulation in **CIVIL and URBAN ENGINEERING** leading to **NYU SoE BS CUE**

BC Course		Credit	Equivalent NYU-TADON Course		Credit at Tandon
MATH 1201	Calculus I	4	MA-UY 1024	Calculus I for Engineers	4
MATH 1206	Calculus II	4	MA-UY 1124	Calculus II for Engineers	4
MATH 2201	Multivariable Calculus	4	MA-UY 2114	Free Elective 2	3
MATH 2101	Linear Algebra	3		Free Elective 1	3
MATH 2206	Introduction to Differential Equations	4	MA-UY 2034	Linear Algebra & Differential Equations	4
PHYS 1150	Calculus-based General Physics I (with Lab)	5	PH-UY 1013	Mechanics	3
PHYS 2150	Calculus-based General Physics I (with Lab)	5	PH-UY 2023	Electricity, Magnetism & Fluids	3
			PH-UY 2121	General Physics Lab 1	1
			PH-UY 2033	Wave, Optics, Thermodynamics + Lab	3
PHYS 3100/ 3400	Intro to Modern Physics/ Thermodynamics	3		Free Elective 3	3
PHYS 3200	Engineering Mechanics	4			
PHYS 3300	Electrical Circuit Analysis	4	CE-UY 2112	Structural Statics	2
PHYS 3900	Electrical Measurement Lab	2	EG-UY 1004	Intro to Engineering & Design	4
CHEM 1200	General Chemistry I	3.5	CM-UY 1003	General Chemistry	3
CHEM 1201	General Chemistry I lab	1.5	CM-UY 1001	General Chemistry I lab	1
	Science (Earth & Environment Science, Biology,...)	3		Science Elective	3
CISC 1115	Intro to Programming using JAVA	4	CS-UY 1113	Problem Solving & Programming	3
ENGL 1010	English Composition I	3	EXPOS-UA 1	Writing the Essay	4
ENGL 1012	English Composition II	3	EXPOS-UA 22	The Advanced College Essay	4
	Two HUSS courses (History/English Literature, Philosophy, Sociology)	6		HU/SS Electives 1, 2.	8

Credit Transferred to NYU = 63

BROOKLYN COLLEGE & NYU-TANDON

Articulation in **COMPUTER ENGINEERING** leading to **NYU SoE BS CompE**

BC Course		Credit	Equivalent NYU-TADON Course		Credit at Tandon
MATH 1201	Calculus I	4	MA-UY 1024	Calculus I	4
MATH 1206	Calculus II	4	MA-UY 1124	Calculus II	4
MATH 2201	Multivariable Calculus	4	MA-UY 2114	Calculus III	4
MATH 2101	Linear Algebra	3 }			
MATH 2206	Introduction to Differential Equations	4 }	MA-UY 2034	Linear Algebra & Differential Equations	4
PHYS 1150	Calculus-based General Physics I (with Lab)	5	PH-UY 1013	Mechanics	3
PHYS 2150	Calculus-based General Physics I (with Lab)	5	PH-UY 2023	Electricity, Magnetism & Fluids	3
			PH-UY 2121	General Physics Lab 1	1
			PH-UY 2033 +2131	MA/SCI Elective	3
PHYS 3100	Intro to Modern Physics	3		Free Elective	3
PHYS 3200/ 3400	Engineering Mechanics/ Thermodynamics	4	EG-UY 1004	Intro to Engineering & Design	3
PHYS 3300	Electrical Circuit Analysis	4	EG-UY 2004	Circuits I & II	4
PHYS 3900	Electrical Measurement Lab	2	ECS-UY 1002	Intro to Electrical & Computer Engg.	2
CHEM 1200	General Chemistry I	3.5	CM-UY 1003	MA/SCI Elective	4
CHEM 1201	General Chemistry I lab	1.5	CM-UY 1001		
CISC 1115	Intro to Programming using JAVA	4	CS-UY 1114	Intro to Programming (Python)	4
CISC 3115	Intro to Modern Programming Techniques	4*			
CISC 3130	Data Structures	4	CS-UY 1134	Data Structures in Python	4
CISC 3142	Programming Paradigms in C++	3	CS-UY 2124	Object Oriented Programming	4
ENGL 1010	English Composition I	3	EXPOS-UA 1	Writing the Essay	4
ENGL 1012	English Composition II	3	EXPOS-UA 22	The Advanced College Essay	4

Credit Transferred to NYU = 63

BROOKLYN COLLEGE & NYU-TANDON

Articulation in **ELECTRICAL ENGINEERING** leading to **NYU SoE BS EE**

BC Course		Credit	Equivalent NYU-TADON Course		Credit at Tandon
MATH 1201	Calculus I	4	MA-UY 1024	Calculus I	4
MATH 1206	Calculus II	4	MA-UY 1124	Calculus II	4
MATH 2201	Multivariable Calculus	4	MA-UY 2114	Calculus III	4
MATH 2101	Linear Algebra	3	MA-UY 1044	Linear Algebra	4
MATH 2206	Introduction to Differential Equations	4	MA-UY 4204	Differential Equations	4
PHYS 1150	Calculus-based General Physics I (with Lab)	5	PH-UY 1013	Mechanics	3
PHYS 2150	Calculus-based General Physics I (with Lab)	5	PH-UY 2023	Electricity, Magnetism & Fluids	3
			PH-UY 2121	General Physics Lab 1	1
			PH-UY 2033 +2131	MA/SCI Elective	4
PHYS 3100	Intro to Modern Physics	3		Free Elective 1	3
PHYS 3200/ 3400	Engineering Mechanics/ Thermodynamics	4	EG-UY 1004	Intro to Engineering & Design	4
PHYS 3300	Electrical Circuit Analysis	4	EG-UY 2004	Circuits I & II	4
PHYS 3900	Electrical Measurement Lab	2	ECS-UY 1002	Intro to Electrical & Computer Engineering	2
CHEM 1200	General Chemistry I	3.5	CM-UY 1003	MA/SCI Elective	4
CHEM 1201	General Chemistry I lab	1.5	CM-UY 1001		
CISC 1115	Intro to Programming using JAVA	4	CS-UY 1114	Intro to Programming (Python)	4
CISC 3115	Intro to Modern Programming Techniques	4*			
CISC 3130	Data Structures	4	CS-UY 2163	Intro to Programming in C	4
ENGL 1010	English Composition I	3	EXPOS-UA 1	Writing the Essay	4
ENGL 1012	English Composition II	3	EXPOS-UA 22	The Advanced College Essay	4

Credit Transferred to NYU = 64

BROOKLYN COLLEGE & NYU-TANDON

Articulation in **MECHANICAL & AEROSPACE** leading to **NYU SoE BS MAE**

BC Course		Credit	Equivalent NYU-TADON Course		Credit at Tandon
MATH 1201	Calculus I	4	MA-UY 1024	Calculus I	4
MATH 1206	Calculus II	4	MA-UY 1124	Calculus II	4
MATH 2201	Multivariable Calculus	4	MA-UY 2114	Calculus III	4
MATH 2101	Linear Algebra	3		STEM2 Elective 1	3
MATH 2206	Introduction to Differential Equations	4	MA-UY 2034	Linear Algebra & Differential Equations	4
PHYS 1150	Calculus-based General Physics I (with Lab)	5	PH-UY 1013 PH-UY 2121	Mechanics General Physics Lab 1	3 1
PHYS 2150	Calculus-based General Physics I (with Lab)	5	PH-UY 2023 +2131	Electricity, Magnetism & Fluids Math/Science Elective	3 4
PHYS 3100	Intro to Modern Physics	3		Intro to Mechanical Engg.	2
PHYS 3200	Engineering Mechanics	4	ME-UY 1012	Statics	3
PHYS 3300	Electrical Circuit Analysis	4 }	EG-UY 2213		
PHYS 3900	Electrical Measurement Lab	2 }	EG-UY 1004	Intro to Engineering & Design	4
CHEM 1200	General Chemistry I	3.5	CM-UY 1003	General Chemistry	3
CHEM 1201	General Chemistry I lab	1.5	CM-UY 1001	General Chemistry I lab	1
CISC 1115	Intro to Programming using JAVA	4	CS-UY 1113	Problem Solving & Programming	3
ENGL 1010	English Composition I	3	EXPOS-UA 1	Writing the Essay	4
ENGL 1012	English Composition II	3	EXPOS-UA 22	The Advanced College Essay	4
	Three HUSS courses (History/English Literature, Philosophy, Sociology)	9		HUSS Electives 1, 2. Free Elective	8 3

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