

ARTICULATION AGREEMENT
between
Hudson Valley Community College and SUNY Polytechnic Institute

This agreement provides graduates of Hudson Valley Community College's (HVCC) Associate of Science (A.S.) degree program with transfer paths to the Bachelor of Science (B.S.) degree at the State University of New York Polytechnic Institute (SUNY Poly). The degree path as follows: **A.S. degree in Engineering Science** to the **B.S. degree in Nanoscale Engineering**.

Objectives of the Agreement:

1. To guarantee admission of transfer students from HVCC who satisfy the criteria described in this agreement.
2. To attract qualified students to HVCC and SUNY Poly.
3. To provide specific information for transfer students who wish to pursue a baccalaureate degree in nanoscale engineering.
4. To encourage academic coordination between HVCC and SUNY Poly.

Agreement:

1. SUNY Poly agrees to accept HVCC graduates from the A.S. degree stated above who meet the admissions criteria at their term of transfer for the B.S. degrees indicated at SUNY Poly, which is currently a 3.25 GPA.
2. Students who have followed the Advisement Plans attached to this agreement will receive the agreed upon hours of transfer credit towards the hours required for the B.S. degree. Credits remaining to complete the identified B.S. degrees will be available in partnership with HVCC and SUNY Poly.
3. Students will maximize transfer credit by following the attached Advisement Plans. Any deviation from the suggested electives outlined in the plans may impact transfer credits and time to B.S. degree completion.
4. Both HVCC and SUNY Poly agree to encourage qualified students to participate by providing information and assistance to prospective transfer students. HVCC will list the agreement in its college catalog and website, and make information available to advisors and students.
5. Both colleges may publicize the articulation in the appropriate college publications, bulletins and college websites.
6. The terms of the articulation will remain in effect until August 2023 or amended by mutual agreement; Advisement Plans will be reviewed annually and appropriate curriculum changes made do not affect the terms of this agreement. This agreement is effective upon signature.

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First Semester

HVCC		Credits	SUNY Poly	
CHEM 120 <i>See Note</i>	Chemistry I	4	NENG 114	Chemical Principles of nanoscale science and engineering I
			NENG 115	Chemical Principles of nanoscale science and engineering Laboratory I
MATH 180	Calculus I (Mathematics)	4	MAT 151	Calculus I
ENGR 110	Engineering Tools	3	NENG 202	Computer Programming
ENGL 101	Composition I	3		General Education
	SUNY Gen Ed	3		General Education
FORM 102	College Forum	(1)	No credit	
		17 credits		

Second Semester

HVCC		Credits	SUNY Poly	
PHYS 150	Physics I	4	NENG 126	Physical Principles of nanoscale science and engineering I
			NENG 127	Physical Principles of nanoscale science and engineering Laboratory I
MATH 190	Calculus II	4	MAT 152	Calculus II
ENGR 120	Intro to Engineering Design	3	NENG 201	Engineering Design
ENGL 102	Composition II	3		General Education
	SUNY Gen Ed	3		General Education
		17 credits		

Third Semester

HVCC		Credits	SUNY Poly	
PHYS 151	Physics II	4	NENG 128	Physical Principles of nanoscale science and engineering II
			NENG 129	Physical Principles of nanoscale science and engineering Laboratory II
MATH 210	Calculus III	4	MAT 253	Calculus III
ENGR 211	Statics	4		Design & Skills
	Engineering Elective	3-4		Design & Skills
	Restricted Elective	3		Design & Skills
		18-19 credits		

Fourth Semester

HVCC		Credits	SUNY Poly	
PHYS 250	Physics III	4	NENG 140	Physical Principles of nanoscale science and engineering III
			NENG 141	Physical Principles of nanoscale science and engineering Laboratory III
MAT 220	Differential Equations	4	MAT 260	Ordinary differential equations & series solutions
	Engineering Electives	7-8		Design & Skills
		15-16 credits		

Total Credits taken at HVCC: 71-73 A maximum of six credits from the Design & Skills category may be applied towards the SUNY Poly Design & Skills requirement. A maximum number of 42 lower division math and engineering credits will transfer into the SUNY Poly BS in Nanoscale Engineering Program.

NOTES:

- Chemistry 120 is preferred over 110, but not required.
- Chemistry 121 (or 111) while not required at HVCC, **is required** for the Nanoscale Engineering B.S. degree. Students should take this course as one of their Engineering Electives.

Engineering Design & Skills Course Equivalencies

HVCC		Credits	SUNY Poly		Credits
ENGR 110	Engineering Tools	3	NENG 202	Programming for Engineers	3
ENGR 120	Intro to Design	3	NENG 201	Engineering Design	3
ENGR 211	Statics	4	ESC 210	Engineering Mechanics-Statics	3
ENGR 215	Engineering Materials	4	ESC 220	Materials Science	3
ENGR 218	Strength of Materials	4	ESC 230	Mechanics of Materials	4
ENGR 220	Dynamics	4	ESC 240	Engineering Mechanics-Dynamics	3
ENGR 223	Thermal Fluids	4	none		
ENGR 225	Electric Circuits	4	NENG 203	Nanoengineering Electronics	3