



*State University of New York*

**TRANSFER ARTICULATION AGREEMENT  
BETWEEN  
THOMAS J WATSON SCHOOL OF ENGINEERING AND  
APPLIED SCIENCE  
BINGHAMTON UNIVERSITY  
AND  
SUNY BROOME**

**INTRODUCTION**

**In an effort to better serve students intending to pursue programs of study within the Watson School of Engineering and Applied Science at Binghamton University, SUNY Broome and Binghamton University hereby enter into this transfer articulation agreement.**

**Binghamton University recognizes students from SUNY Broome who complete an associate degree in systems engineering and then wish to pursue and earn a baccalaureate degree in industrial & systems engineering from the Watson School at Binghamton University.**

**OBJECTIVES**

- **To facilitate the transition of graduates from the associate of systems engineering degree program at SUNY Broome to the baccalaureate degree program in industrial & systems engineering in the Watson School at Binghamton University.**
- **To attract qualified students to both SUNY Broome and Binghamton University.**
- **To provide information to ensure appropriate advisement for students from faculty and staff at both SUNY Broome and the Watson School at Binghamton University.**
- **To encourage academic coordination between the faculty and advisors at the two institutions, including curricular reviews.**
- **To assess and exchange information on the specific outcomes of this articulation program with the goal of continual improvement.**

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WATSON SCHOOL  
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AND  
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In March 2019, the Watson School at Binghamton University and SUNY Broome agree to enter into an articulation agreement as described by articles one through six of the attached document and the Transfer Information/Curriculum Planning Guide. This articulation agreement will remain in effect until it is recertified or until it is terminated.

The undersigned agree to all the stipulations outlined in the attached documents.



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**Harvey G. Stenger, President  
Binghamton University**



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**Dr. Kevin Drumm, President  
SUNY Broome Community College**



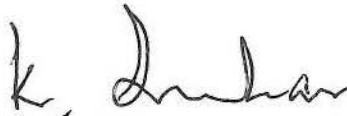
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**Donald G. Nieman, Executive Vice  
President for Academic Affairs and  
Provost  
Binghamton University**



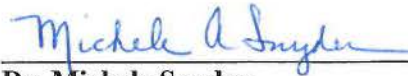
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**Dr. Francis Battisti  
Executive Vice President & Chief Academic  
Officer  
SUNY Broome Community College**



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**Krishnaswami Srihari, Dean  
Thomas J. Watson School of Engineering  
and Applied Science  
Binghamton University**



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**Dr. Michele Snyder  
Associate Vice President & Dean  
STEM Division  
SUNY Broome Community College**

## ARTICLES OF ARTICULATION

1. Under the provisions of this document, all SUNY Broome students who have graduated or who will graduate prior to enrollment at Binghamton with an associate of systems engineering degree with a cumulative grade point average of at least a 3.0 will be welcomed as matriculated students in the Watson School, provided that all engineering transfer admissions criteria are met, including prerequisite courses outlined in the attached transfer equivalency information. A completed application is due by February 15 for the fall admission and November 1 for spring admission. However, those who intend to complete the bachelor of science degree in four standard, full-time semesters must enter in a fall semester having completed all prerequisites required for their desired program.
2. Application Forms and requirements for application and admission are available at <http://www2.binghamton.edu/admissions/students/transfer-students.html> including additional requirements for International Applicants and Educational Opportunity Program (EOP) applicants.
3. This document and the attached curriculum planning guides describe the requirements for the bachelor of science in industrial & systems engineering in the Watson School. The planning guides also provide information about approved Binghamton University transfer course equivalencies that should be taken within the first two years of study at SUNY Broome to fulfill University General Education and/or Watson School requirements.
4. Credits awarded through programs including Advance Placement (AP), International Baccalaureate (IB) and College Level Examination Program (CLEP) will also be considered for transfer based upon official proof of minimum required scores.
5. Each institution hereby agrees to notify the other in the event of substantive changes in a course, programs or policies at its institution that would have an impact on this agreement, including the courses and provisions herein. SUNY Broome shall notify the Watson School anytime that course syllabi and/or contents are significantly altered, or if new courses should be reviewed for equivalency. Substantive changes to the degree program at Binghamton University will be reflected in the Bulletin and in the guide materials on the website, and due notification shall be made to SUNY Broome. All such notification shall be made as early as reasonable.
6. Evaluation and renegotiation of this agreement will occur every 5 years. At the request of either party, a review of the contents and/or implementation of the agreement will be conducted by the institutions. Binghamton University and/or SUNY Broome will give not less than one calendar year's written notice for a termination of the articulation agreement.

For additional information contact  
Watson School Advising Office at 607-777-6203

The Curriculum Planning Guide is part of this agreement and is attached as page 4.

**Thomas J. Watson School of Engineering and Applied Science**  
**BS in Industrial Systems and Science Engineering - Four-Year Program**  
**2018 Articulation Guide - SUNY Broome**  
**Binghamton University**

**Fall**

Course	Name	Transfer Course
MATH 224/225	Calculus I (M)	<b>MAT 181</b>
CHEM 111	Chemical Principles	<b>CHM 145 &amp; 146*</b>
EDD 103	Engineering Comm.	<b>ENG 110</b>
EDD 111	Intro to Engin. Design	<b>EGR 150</b>
	General Ed. Elective	<b>See Notes</b>
	Body/Wellness	<b>Wellness</b>

**Spring**

Course	Name	Transfer Course
MATH 226/227	Calculus II	<b>MAT 182</b>
PHYS 131	Calc. Based Physics I	<b>PHY 181</b>
EDD 104	Engineering Comm. II	<b>ENG 111 or 220</b>
EDD 112	Intro to Engin. Analysis	<b>EGR 151</b>
	General Ed. Elective	<b>See Notes</b>
	Body/Wellness	<b>Activity</b>

**Fall**

Course	Name	Transfer Course
MATH 324	Differential Equations *	<b>MAT 282</b>
MATH 323	Calculus III *	<b>MAT 281</b>
PHYS 132	Calc. Based Physics II	<b>PHY 182</b>
ME 273	Statics	<b>EGR 281</b>
ISE 231	Human Factors	<b>After Transfer</b>
ISE 295	Seminar Course	<b>EGR/SYS 110</b>

**Spring**

Course	Name	Transfer Course
ISE 211	Engineering Economics	<b>EGR/SYS 240</b>
ISE 261	Probabilistic Systems	<b>MAT 260</b>
	General Ed. Elective	
	General Ed. Elective	

**Fall**

Course	Name	Transfer Course
ISE 311	Enterprise Systems	
ISE 362	Probabilistic Systems II	
MATH 304	Linear Algebra	<b>MAT 264</b>
ISE 314	Comp. Prog. For Eng.	

**Spring**

Course	Name	Transfer Course
ISE 320	Optimiz. & Op. Res. I	
ISE 363	Quality Engineering	
ISE 212	Engineering Computing	<b>CST 127 or 138</b>
	General Ed. Elective	

**Fall**

Course	Name	Transfer Course
ISE 420	Optimiz. & Op. Res. II	
ISE 421	Modeling & Simulation	
ISE 370	Industrial Automation	
ISE 491	Systems Eng. Design	

**Spring**

Course	Name	Transfer Course
ISE 492	Systems Design Project	
	Technical Elective	
	Technical Elective	
	Technical Elective	

**Notes:**

Students are required to complete one general education course from each of the following categories prior to, or while attending Binghamton University; Aesthetics (A), Global Interdependencies (G), Humanities (H), Pluralism (P), and Social Science (N).

\*Students will be required to take MATH 324 OR MATH 323

\*\*Students at Broome will take CHM 146 in the summer between the first and second year.

Courses are listed in the semesters in which they are offered at Binghamton University.

*Curriculum is subject to change - please check with the Watson Advising office for updated guidesheets.*