Mohawk Valley Community College LAS: Mathematics & Science - Physics					University at Albany Physics B.S. (combined major/minor)				
Course #	Course Title	SUNY Gen Ed	Major or Pathway	Credits Granted	Course #	Equivalent Course Title	SUNY Gen Ed	Major or Pathway	Credits Accepted
CF100	College Foundations Seminar (1)			1	QNCRE00	No Credit Given at UAlbany	Gen Lu	Faulway	0
H141	General Chemistry 1	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
N101	English 1: Composition	X		3	ANEG 100Z	Introduction to Analytical Writing	X	^	3
S161	Introduction to Engineering & Science			3	ACASE10	100-Level Arts and Sciences Elective	, A		3
MA151	Calculus 1	X	X	4	AMAT 112	Calculus I	X	X	4
	Physical Education			.5	737031 112	General Elective Credit	_ ^	^	.5
			No. of Pages			- All Control of Contr			
H 142	General Chemistry II	X	X	4	ACHM 121/125	General Chemistry II/Lab	X	X	4
N102	English 2: Ideas & Values in Literature	X		3	AENG 121	Reading Literature	X	,,	3
/A152	Calculus 2	X	X	4	AMAT 113	Calculus 2	X	X	4
PH261	Engineering Physics 1	X	X	4	APHY 140/145	Physics I: Mechanics/Lab	X	X	4
	Physical Education			.5		General Elective Credit	1		.5
									776 876
ES291	Electrical Circuits 1			4	ICEN 280	Introduction to Circuits			4
/A253	Calculus 3	X	X	4	AMAT 214	Calculus of Several Variables	X	X	4
PH262	Engineering Physics 2	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
	Social Science Restricted Elective (A)	X		3		SUNY Gen Ed Social Science Elective	X		3
	Physical Education			.5		General Elective Credit			.5
1404									
11101	History of Civilization 1	X		3	AHISE10WD	100-Level History Elective	X		3
1A260	Differential Equations	X		3	AMAT 311	Ordinary Differential Equations	X		3
/A280	Linear Algebra	X	X	3	AMAT 220	Linear Algebra	X	Х	3
PH265	Modern Physics and Thermodynamics			4	APHY 240/245	Physics III: Structure of Matter/Lab		X	4
PH270	Waves and Oscillations			3	APHYE00	Physics Elective – no credit given major/minor			3
	Physical Education			.5		General Elective Credit			.5
					Total Credits Elig				62
					Additional Requir	red and Elective Courses for the Major at UAlbany			
						Challenges of the 21st Century	X	X	3
					APHY 235	Mathematics in Physics (3)		X	3
					APHY 250	Physics IV: Waves		X	3
					APHY 320	Classical Mechanics		X	3
					APHY 335Z	Advanced Physics Lab		X	3
					APHY 340	Electromagnetism I		X	3
					APHY 350	Electromagnetism II: Optics		X	3
					APHY 440	Quantum Physics I		X	3
					APHY 450	Quantum Physics II		X	3
					APHY 460	Thermodynamics and Statistics Physics		X	3
						Physics Elective (4)		X	3
					ICEN/ICSI 201	Introduction to Computer Science		X	4
						Elective Credits required for Degree Completion		X	17
Total credits required for degree completion at MVCC 63						So Mo I	otal Credits requir	-	58
)The Unive)This cours)Students n	ence Elective: AN 101, PS 101, PY 101, or SO 101 rsity at Albany does not accept transfer credit for Coe is suggested because it meets a requirement for the nay substitute and take AMAT 314 and AMAT 315 is ective must be selected from the 300-level or above	he major at UAlbany ι η place of APHY 235.	minar courses. Ipon transfer.			7	otal Credits Appli	ed to Program	62
transfer student admitted to the University at Albany who has completed his/her A A or A S degree will be given credit for meeting SUNY's Coperal Education requirements.									120

A transfer student admitted to the University at Albany who has completed his/her A.A. or A.S. degree will be given credit for meeting SUNY's General Education requirements. Agreement Effective October 2018- October 2019