

Mohawk Valley Community College Liberal Arts & Sciences: Mathematics & Science - Biology					University at Albany Bio-Instrumentation 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
EN101	English 1: Composition	X		3	ANEG 100Z	Introduction to Analytical Writing	X		3
BI 141 (2)	General Biology I	X	X	4	ABIO 131/202	General Biology: Ecology, Evolution, and Physiology/Lab	X	X	4
MA 150	Pre-Calculus	X		4	AMAT 100	Precalculus Mathematics	X		4
CH141 (2)	General Chemistry 1	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
CF100	College Foundations Seminar (1)			1	QNCRE00	No Credit Given at UAlbany			0
	Physical Education			.5		General Elective Credit			.5
EN102	English 2: Ideas & Values in Literature	X		3	AENG 121	Reading Literature	X		3
BI 142 (2)	General Biology II	X	X	4	ABIO 130/201	General Biology: Molecular, Cell Biology, and Genetics/Lab	X	X	4
MA151 (2)	Calculus 1	X	X	4	AMAT 112	Calculus I	X	X	4
CH 142 (2)	General Chemistry II	X	X	4	ACHM 121/125	General Chemistry II/Lab	X	X	4
	Physical Education			.5		General Elective Credit			.5
CH247 (2)	Organic Chemistry 1	X	X	5	ACHM 220/222	Organic Chemistry I/Lab	X	X	5
MA152	Calculus 2	X		4	AMAT 113	Calculus II	X		4
HI101 or Elective	History of Civilization or Elective (A)	X		3	AHISE10WD or Elective	100-Level History Elective or General Elective Credit	X		3
	Social Science Elective (B)	X		3		SUNY Gen Ed Social Science Elective	X		3
	Physical Education			.5		General Elective Credit			.5
CH248	Organic Chemistry 2	X		5	ACHM 221/223	Organic Chemistry II/Lab	X		5
	Natural Science Elective (C)	X		4		SUNY Gen Ed Natural Science Elective	X		4
	History Elective (A)	X		3		History Elective	X		3
	Social Science Elective (B)	X		3		SUNY Gen Ed Social Science Elective	X		3
MA 110 (2)	Elementary Statistics (3)	X	X	3	AMAT 108	Elementary Statistics	X	X	3
	Physical Education			.5		General Elective Credit			.5
Total Credits Eligible for Transfer					61				
Additional Required and Elective Courses for the Major at UAlbany									
						Challenges of the 21 st Century	X	X	3
					ABIO 212Y (2)	Introductory Genetics		X	4
					ABIO 217 (2)	Cell Biology		X	3
					APHY 140/145 (2)	Physics I: Mechanics/Lab	X	X	4
					HBMS 310	Molecular and Genomic Approaches in Biotechnology I		X	4
					HBMS 311	Molecular and Genomic Approaches to Biotechnology II		X	4
					HBMS 312	Proteomic Methodologies in Biotechnology		X	4
					HBMS 314	Animal and Cell Culture Model Systems		X	4
					HBMS 420	Bio-Instrumentation Co-operative Training Internship		X	3
					HBMS 505	Biological Basis of Public Health		X	3
					HSPH 201	Introduction to Public Health		X	3
					HSPH/HEPI 231	Concepts in Epidemiology		X	3
					HSPH/HEPI 332	Epidemiology and Biostatistics		X	3
						Instrumentation in Biotechnology Research Internship Courses (4)		X	6
						Elective Credits Required for Degree Completion		X	8
Total credits required for degree completion at MVCC					62				
					Total Credits required at UAlbany				
					59				
					Total Credits Applied to Program				
					61				
					Total Credits Required for Degree				
					120				

(A)History elective (choose one): HI102, HI111, HI112

(B)Social Science elective (choose one): AN101, BM101, PS101, PY101, or SO101

(C)Natural Sciences (choose one): BI105, BI151, BI201, WE101

(1)The University at Albany does not accept transfer credit for College Foundations Seminar courses.

(2)Students must complete these courses before they will be considered for admission into the major.

(3)MVCC are encouraged to take MA 110 as credit beyond required for degree completion to meet a requirement for admission into the major.

(4)Students must select two of the following: HBMS 410, HBMS 411, HBMS 412, HBMS 414, or HBMS 415.

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.

Transfer students must apply to the Bio-Instrumentation major. Applications are reviewed by the Undergraduate Committee.

Applicants must have met the following requirements:

- Completed a minimum of 38 credits consisting of introductory science and math courses,
- Completed all of the prerequisite core courses (ABIO 130/201, ABIO 131/202, ABIO 212, ABIO 217, ACHM 120/124, ACHM 121/125, ACHM 220/222, AMAT 108, AMAT 112, and APHY 140/145)
- Students must have a 2.5 GPA. In addition, the GPA in the prerequisite core science and math courses will be used as the selection criteria is there are more applicants than space available in the program.