

Dutchess Community College Liberal Arts and Sciences – Mathematics A.S.					University at Albany Mathematics B.A.				
Course #	Course Title	SUNY Gen Ed	Major or Pathway	Credits Granted	Course #	Equivalent Course Title	SUNY Gen Ed	Major or Pathway	Credits Accepted
BHS 103	Social Problems in Today's World	X		3	ASOC 180	Social Problems	X		3
CPS 100	Computer Science Intro Seminar			1	NOCR	No Credit Transferred			0
LAH 100	Lib Arts Humanities Intro Sem								
LAM 100	Lib Arts Math Intro Seminar								
CPS 141	Introduction to Computer Science		X	4	ICSI 201	Introduction to Computer Science		X	4
ENG 101	English Composition	X		3	AENG 100Z	Introduction to Analytical Writing	X		3
ENG 102	English Composition II	X		3	AENG 010Z	English Elective	X		3
MAT 214	Discrete Mathematics Using Proofs	X	X	3	AMAT 299	Introduction to Proofs	X	X	3
MAT 215	Introduction to Linear Algebra	X	X	3	AMAT 220	Linear Algebra	X	X	3
MAT 221	Analytical Geometry and Calculus I	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 222	Calculus II	X	X	4	AMAT 113	Calculus II	X	X	4
MAT 223	Calculus III	X	X	4	AMAT 214	Calculus of Several Variables	X	X	4
MAT 224	Differential Equations	X	X	4	AMAT 311	Ordinary Differential Equations (2)	X	X	4
PHY 151	Engineering Physics I	X		4	APHY 140/145	Physics I:Mechanics/Lab	X		4
PHY 152	Engineering Physics II	X		4	APHY 150/155	Physics II: Electromagnetism/Lab	X		4
WFE 101	Lifetime Wellness and Fitness			3	DPEC 030	Physical Education Elective			3
	American History	X		3		History Elective	X		3
	Electives/Free Electives			8		General Electives			8
	General Education Elective (1)	X		6		General Education Electives	X		6
					<b>Total Credits Eligible for Transfer</b>				
					<b>63</b>				
					<b>Additional Required and Elective Courses for the Major at UAlbany</b>				
						Challenges of the 21 <sup>st</sup> Century	X	X	3
						Algebra Elective (3)		X	3
						Geometry/Topology Elective (4)		X	3
						Probability/Statistics Elective (5)		X	3
					UUNL 299	Information Literacy in Mathematics and Statistics		X	2
						Elective Credits Required for Degree Completion		X	19-25
					Minor	A Minor is required at UAlbany		X	18-24
<b>Total credits required for degree completion at SUNY Dutchess</b>				<b>64</b>	<b>Total Credits Required at UAlbany</b>				<b>57</b>
					<b>Total Transfer Credits Applied to Program</b>				<b>63</b>
					<b>Total Credits Required for Degree</b>				<b>120</b>

(1)General Education electives should be selected from courses listed in General Education Appendices D, E, F, and I. Students may select a course from Appendix D only if HIS 104 has not been previously taken. Students may select from Appendix F only if HIS 108 has not been previously taken.

(2)AMAT 311 meets the Analysis Elective

(3)Algebra Elective: AMAT 326; AMAT 327; AMAT 328; AMAT 424

(4)Geometry/Topology Elective: AMAT 331; AMAT 342; AMAT 432; AMAT 441; AMAT 442

(5)Probability/statistics: AMAT 308, AMAT 362 or AMAT 367, AMAT 363, AMAT 370, AMAT 464, or AMAT 467 (only one of AMAT 362 and AMAT367 may be applied toward any major or minor in mathematics or a minor in statistics).

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. Before declaring a major, students must complete one of the following: AMAT 113, 119, 214, or 218 with a grade of A, B, C, or S. (Transfer credits and grades may be used to satisfy this).