

University at Albany College of Arts and Sciences

SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science A.S.					University at Albany Atmospheric Science 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
CHM 111	General Chemistry I (SUNY Gen. Ed. Natural Science lab science)	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
EGR 105	Engineering Physics I (Mathematics/Science Core)	X	X	4	APHY 140/145	Physics I: Mechanics/Lab	X	X	4
EGR 106	Engineering Physics II (Mathematics/Science Core)	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
ENG 101	Introduction to College Writing	X		3	AENG 010Z	English Elective	X		3
MAT 131	Calculus I (Suggested SUNY Gen. Ed. Mathematics)	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 132	Calculus II (Mathematics/Science Core)	X	X	4	AMAT 113	Calculus II	X	X	4
MAT 231	Calculus III (Mathematics/Science Core)		X	4	AMAT 214	Calculus of Several Variables		X	4
MAT 232	Differential Equations (Mathematics/Science Core)		X	4	AMAT 311	Ordinary Differential Equations		X	4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Elective			6		Liberal Arts Elective			6
	Mathematics or Science Elective			4		Mathematics or Science			4
	Elective Credits			6		Elective Credits			6
HRD 110	Freshmen Experience*			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major/Minor at UAlbany				
						Challenges of the 21 st Century		X	3
					AATM 209	Weather Workshop (Corequisite with AATM 210)		X	1
					AATM 210	Atmospheric Structure, Thermodynamics, and Circulation (Corequisite with AATM 209)		X	3
					AATM 211	Weather Analysis and Forecasting		X	4
					AATM 315	Environmental Statistics and Computation		X	4
					AATM 316	Dynamic Meteorology I		X	3
					AATM 317	Dynamic Meteorology II		X	3
					AATM 320	Atmospheric Thermodynamics		X	3
					AATM 321	Physical Meteorology		X	4
					AATM 350	Meteorological Data Analysis and Visualization		X	2
					AATM 418	Dynamic Meteorology III		X	3
					AATM 419	Applications of Numerical Weather Prediction		X	3
						Atmospheric Science Electives (301 and higher)**		X	12
						Elective credits required for Degree Completion		X	8
				Total Credits eligible for Transfer	64				
					Total Transfer Credits Applied to Program				64
					Total Credits Required after Transfer				56
					Total Credits Required for Degree				120

*The University at Albany does not accept transfer credit for Freshmen Experience courses at this time.

**Excluding AATM 304 and including one of AATM 311 and AATM 405. No more than 6 credits from AATM 490, AATM 497, AATM 498, or AATM 499. A maximum of 3 credits from AATM 490 will apply.

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.

SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science A.S.					University at Albany Biology 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
BIO 111	General Biology I (SUNY Gen. Ed. Natural Science lab science)	X	X	4	ABIO 120/201	General Biology/Lab	X	X	4
BIO 112	General Biology II (Mathematics/Science Core)	X		4	ABIO 298/296	Contemporary Issues in Biological Sciences/Lab (Major Elective)	X		4
BIO 114	Human Nutrition (Mathematics/Science Core)			4	ABIO 117	Nutrition			4
BIO 212	Genetics (Mathematics/Science Core)		X	4	ABIO 212Y	Genetics		X	4
CHM 111	General Chemistry I (Mathematics/Science Core)	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
CHM 112	General Chemistry II (Mathematics/Science Core)		X	4	ACHM 121/125	General Chemistry II/Lab		X	4
ENG 101	Introduction to College Writing	X		3	AENG 010Z	English Elective	X		3
MAT 127	Introductory Statistics with Probability (Suggested SUNY Gen. Ed. Mathematics)	X		3	AMAT 108	Elementary Statistics	X		3
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Electives			6		Liberal Arts Electives			6
	Mathematics or Science Elective			3		Mathematics or Science Elective			3
	Elective Credits			8		Elective Credits			8
HRD 110	Freshmen Experience			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					ABIO121/202Z	General Biology II/Lab		X	4
						Biology Major Electives***		X	16
						Elective credits required for Degree Completion		X	9-15
					Minor	A Minor is required at UAlbany		X	18-24
				Total Credits Eligible for Transfer	64				
						Total Transfer Credits Applied to Program:			64
						Total Credits Required after Transfer:			56
						Total Credits Required for Degree			120

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***Biology Major Elective must have 12 credits at 300 level or above.

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SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science A.S. – Biology Track					University at Albany Biology 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
BIO 111	Zoology	X	X	4	ABIO 120/201	General Biology/Lab	X	X	4
BIO 112	Botany	X	X	4	ABIO 298/296	Contemporary Issues in Biological Sciences/Lab	X	X	4
BIO 212	Genetics		X	4	ABIO 212Y	Genetics		X	4
BIO 213	Molecular Biology		X	4	ABIO 217/302Z	Cell Biology/Lab		X	4
CHM 111	General Chemistry I	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
CHM 112	General Chemistry II		X	4	ACHM 121/125	General Chemistry II/Lab		X	4
ENG 101	Introduction to College Writing	X		3	AENG 010Z	English Elective	X		3
MAT 131	Calculus I	X	X	4	AMAT 112	Calculus I	X	X	4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Electives			6		Liberal Arts Electives			6
	Mathematics or Science*			4		Mathematics or Science Elective			4
	Elective Credits			3		Elective Credits			3
HRD 110	Freshmen Experience**			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					ABIO 121/202Z	General Biology II/Lab	X	X	4
					ABIO 365	Biological Chemistry I		X	3
					ABIO 402	Evolution		X	3
					ACHM 220/222	Organic Chemistry I/Lab		X	4
					ACHM 221/223	Organic Chemistry II/Lab		X	4
					AMAT 108 or AMAT 113	Elementary Statistics or Calculus II	X	X	3
					APHY 105/106	General Physics I/Lab	X	X	4
					APHY 108/109	General Physics II/Lab	X	X	4
						Biology Major Electives***		X	15
						Elective credits required for Degree Completion		X	6
				Total Credits Eligible for Transfer	64				
						Total Transfer Credits Applied to Program			64
						Total Credits Required after Transfer			53
						Total Credits Required for Degree			120

*SUNY Adirondack are encouraged to take MAT 127 or MAT 132 because it will meet a major requirement at UAlbany upon transfer.

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***Biology Major Electives must include 3 courses that are partially or exclusively laboratory courses. Six of the credits must be at the 300-level, and 3 credits must be at the 400-level.

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SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science A.S.					University at Albany Chemistry B.A. (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
CHM 111	General Chemistry I (SUNY Gen. Ed. Natural Science lab science)	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
CHM 112	General Chemistry II (Mathematics/Science Core)		X	4	ACHM 121/125	General Chemistry II/Lab		X	4
CHM 203	Organic Chemistry I (Mathematics/Science Core)		X	4	ACHM 220/222	Organic Chemistry I/Lab		X	4
CHM 204	Organic Chemistry II (Mathematics/Science Core)		X	4	ACHM 221/223	Organic Chemistry II/Lab		X	4
EGR 105	Engineering Physics I (Mathematics/Science Core)	X	X	4	APHY 140/145	Physics I: Mechanics/Lab	X	X	4
EGR 106	Engineering Physics II (Suggested Mathematics or Science Elective)	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
ENG 101	Introduction to College Writing	X		3	AENG 110Z	Writing & Critical Inquiry	X		3
MAT 131	Calculus I (Suggested SUNY Gen. Ed. Mathematics)	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 132	Calculus II (Mathematics/Science Core)	X	X	4	AMAT 113	Calculus II	X	X	4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Elective			6		Liberal Arts Elective			6
	Elective Credits			6		Elective Credits			6
HRD 110	Freshmen Experience*			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major/Minor at UAlbany				
						Challenges of the 21 st Century		X	3
					ACHM 225	Quantitative Analysis		X	3
					ACHM 320	Introduction to Physical Chemistry		X	3
					ACHM 321	Introduction to Experimental Physical Chemistry		X	2
					ACHM 417	Advanced Synthesis Laboratory		X	3
					ACHM 420	Inorganic Chemistry I		X	3
					ACHM 430	Instrumental Analysis		X	3
						Advanced Chemistry Elective		X	3
						Elective credits required for Degree Completion		X	33
				Total Credits eligible for Transfer	64				
					Total Transfer Credits Applied to Program				64
					Total Credits Required after Transfer				56
					Total Credits Required for Degree				120

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SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science A.S. – Chemistry Track					University at Albany Chemistry 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
CHM 111	General Chemistry I	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
CHM 112	General Chemistry II		X	4	ACHM 121/125	General Chemistry II/Lab		X	4
CHM 203	Organic Chemistry I		X	4	ACHM 220/222	Organic Chemistry I/Lab		X	4
CHM 204	Organic Chemistry II		X	4	ACHM 221/223	Organic Chemistry II/Lab		X	4
EGR 105	Engineering Physics I	X	X	4	APHY 140/145	Physics I: Mechanics	X	X	4
EGR 106	Engineering Physics II	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
EGR 204	Engineering Physics III	X		4	APHY 240/245	Physics III: Structure of Matter/Lab	X		4
ENG 101	Introduction to College Writing	X		3	AENG 110Z	Writing & Critical Inquiry	X		3
MAT 131	Calculus I	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 132	Calculus II	X	X	4	AMAT 113	Calculus II	X	X	4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Elective Credits			8		Elective Credits			6
HRD 110	Freshmen Experience *			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					ACHM 225	Quantitative Analysis		X	3
					ACHM 350	Physical Chemistry I		X	3
					ACHM 351	Physical Chemistry II		X	3
					ACHM 352Z	Physical Chemistry Lab		X	3
					ACHM 417	Advanced Synthesis Lab		X	3
					ACHM 420	Inorganic Chemistry I		X	3
					ACHM 342 or ACHM 442	Introduction to Biochemistry or Comprehensive Biochemistry		X	3
						Advanced Chemistry Laboratory**		X	3
						Advanced Chemistry***		X	3
					AMAT 214	Calculus of Several Variables		X	4
						Elective credits required for Degree Completion		X	22
				Total Credits eligible for Transfer	64				
						Total Transfer Credits Applied to Program			64
						Total Credits Required after Transfer			56
						Total Credits Required for Degree			120

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**Advanced Chemistry Laboratory select from: ACHM 426; ACHM 430; ACHM 450

***Advanced Chemistry courses other than: ACHM 424; ACHM 425; ACHM 426)

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SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science A.S.					University at Albany Chemistry with Forensic Chemistry Emphasis 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
CHM 111	General Chemistry I (SUNY Gen. Ed. Natural Science lab science)	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
CHM 112	General Chemistry II (Mathematics/Science Core)		X	4	ACHM 121/125	General Chemistry II/Lab		X	4
CHM 203	Organic Chemistry I (Mathematics/Science Core)		X	4	ACHM 220/222	Organic Chemistry I/Lab		X	4
CHM 204	Organic Chemistry II (Mathematics/Science Core)		X	4	ACHM 221/223	Organic Chemistry II/Lab		X	4
EGR 105	Engineering Physics I (Mathematics/Science Core)	X	X	4	APHY 140/145	Physics I: Mechanics/Lab	X	X	4
EGR 106	Engineering Physics II (Mathematics/Science Core)	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
ENG 101	Introduction to College Writing	X		3	AENG 110Z	Writing & Critical Inquiry	X		3
MAT 127	Introductory Statistics with Probability (Suggested Elective)	X	X	3	AMAT 108	Elementary Statistics	X	X	3
MAT 131	Calculus I (Suggested SUNY Gen. Ed. Mathematics)	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 132	Calculus II (Suggested Mathematics or Science Elective)	X	X	4	AMAT 113	Calculus II	X	X	4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Elective			6		Liberal Arts Elective			6
	Elective Credits			3		Elective Credits			3
HRD 110	Freshmen Experience *			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					ACHM 225	Quantitative Analysis		X	3
					ACHM 350	Physical Chemistry I		X	3
					ACHM 351	Physical Chemistry II		X	3
					ACHM 352Z	Physical Chemistry Lab		X	3
					ACHM 417	Advanced Synthesis Lab		X	3
					ACHM 420	Inorganic Chemistry I		X	3
					ACHM 342 or ACHM 442	Introduction to Biochemistry or Comprehensive Biochemistry		X	3
					ACHM 450	Forensic Chemistry I		X	3
					ACHM 451	Forensic Chemistry II		X	3
					AMAT 214	Calculus of Several Variables		X	4
						Elective credits required for Degree Completion		X	22
				Total Credits eligible for Transfer	64				
								Total Transfer Credits Applied to Program	64
								Total Credits Required after Transfer	56
								Total Credits Required for Degree	120

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SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science 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
ENG 101	Introduction to College Writing	X		3	AENG 110Z	Writing and Critical Inquiry	X		3
MAT 127	Introductory Statistics with Probability (Suggested SUNY Gen. Ed. Mathematics)	X		4	AMAT 108	Elementary Statistics	X		4
MAT 131	Calculus I (Mathematics/Science Core)	X		4	AMAT 112	Calculus I	X		4
MAT 132	Calculus II (Mathematics/Science Core)	X		4	AMAT 113	Calculus II	X		4
MAT 220	Linear Algebra (Mathematics/Science Core)		X	3	AMAT 220	Linear Algebra		X	3
MAT 231	Calculus III (Mathematics/Science Core)		X	4	AMAT 214	Calculus of Several Variables		X	4
MAT 232	Differential Equations (Mathematics/Science Core)		X	4	AMAT 311**	Ordinary Differential Equations		X	4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Natural Science with Lab	X		4		SUNY Gen. Ed. Natural Science with Lab	X		4
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Mathematics or Science Elective			3		Mathematics or Science Elective			3
	Liberal Arts Electives			6		Liberal Arts Electives			6
	Elective Credits			8		Elective Credits			8
HRD 110	Freshmen Experience*			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					AMAT 299	Introduction to Proofs (same semester as UJNL 299)		X	3
						Algebra Elective**		X	3
						Geometry/Topology Elective**		X	3
						Probability/Statistics**		X	3
					UJNL 299	Information Literacy in Mathematics and Statistics (same semester as AMAT 299)		X	2
						Elective credits required for Degree Completion		X	15-21
					Minor	A Minor is required at UAlbany		X	18-24
				Total Credits eligible for Transfer	64				
						Total Transfer Credits Applied to Program			64
						Total Credits Required after Transfer			56
						Total Credits Required for Degree			120

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**Algebra Elective: AMAT 326; AMAT 327; AMAT 328; AMAT 424

**Analysis Elective: Transfer credit meets this requirement

**Geometry/Topology Elective: AMAT 331; AMAT 312; AMAT 314; AMAT 409; AMAT 412; AMAT 413; AMAT 414

**Probability/Statistics: AMAT 308; AMAT 362 or 367; AMAT 363; AMAT 370; AMAT 464; AMAT 467

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Restricted Major – 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).

SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science A.S. – Mathematics Track					University at Albany Mathematics B.S.				
Course #	Course Title	SUNY Gen Ed	Major or Pathway	Credits Granted	Course #	Equivalent Course Title	SUNY Gen Ed	Major or Pathway	Credits Accepted
ENG 101	Introduction to College Writing	X		3	AENG 110Z	Writing and Critical Inquiry	X		3
MAT 127	Introductory Statistics with Probability	X		4	AMAT 108	Elementary Statistics	X		4
MAT 131	Calculus I	X		4	AMAT 112	Calculus I	X		4
MAT 132	Calculus II	X		4	AMAT 113	Calculus II	X		4
MAT 220	Linear Algebra		X	3	AMAT 220	Linear Algebra		X	3
MAT 231	Calculus III		X	4	AMAT 214	Calculus of Several Variables		X	4
MAT 232	Differential Equations			4	AMAT 311	Ordinary Differential Equations			4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Natural Science with Lab	X		4		SUNY Gen. Ed. Natural Science with Lab	X		4
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Electives			6		Liberal Arts Electives			6
	Mathematics or Science Elective			3		Mathematics or Science Elective			3
	Elective Credits			8		Elective Credits			8
HRD 110	Freshmen Experience*			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					AMAT 299	Introduction to Proofs (same semester as UUNL 299)		X	3
						2 AMAT Sequences **		X	12
						Computer Science Elective		X	6
					UUNL 299	Information Literacy in Mathematics and Statistics (same semester as AMAT 299)		X	2
						Elective credits required for Degree Completion		X	6-12
					Minor	A Minor is required at UAlbany		X	18-24
				Total Credits eligible for Transfer	64				
					Total Transfer Credits Applied to Program				64
					Total Credits Required after Transfer				56
					Total Credits Required for Degree				120

The University at Albany does not accept transfer credit for Freshmen Experience courses at this time

**Select two of the following Sequences:

- Any two of AMAT 326, AMAT 327, or AMAT 328
- Either (a) AMAT 314 & AMAT 315, or (b) any two of AMAT 312, AMAT 412, AMAT 413, AMAT 414
- Either (a) any two of AMAT 308, AMAT 362/367, AMAT 363, AMAT 369, AMAT 464, AMAT 465, AMAT 467, AMAT 468; or (b) AMAT 370 and of the following AMAT 367, AMAT 369, AMAT 464, AMAT 465, AMAT 467, AMAT 468
- AMAT 312 and AMAT 424 (AMAT 312 cannot be a part of two sequence options)

***Select two courses from: ICSI 101, ICSI 203, ICSI 204, ICSI 205, ICSI 310

****Select one of the following Minors: Atmospheric Science, Biology, Business, Chemistry, Computer Science, Economics, Electronics, Geology, Informatics, or Physics

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SUNY Adirondack Liberal Arts and Sciences: Mathematics and Science A.S.					University at Albany Physics B.S.				
Course #	Course Title	SUNY Gen Ed	Major or Pathway	Credits Granted	Course #	Equivalent Course Title	SUNY Gen Ed	Major or Pathway	Credits Accepted
CHM 111	General Chemistry I (Mathematics/Science Core)	X	X	4	ACHM 120/124	General Chemistry I/Lab	X	X	4
CHM 112	General Chemistry II (Mathematics/Science Core)		X	4	ACHM 121/125	General Chemistry II/Lab		X	4
CIS 143	Introduction to Programming (Mathematics/Science Core)		X	3	ICSI 201	Introduction to Computer Science		X	3
EGR 105	Engineering Physics I SUNY Gen. Ed. Natural Science with Lab	X	X	4	APHY 140/145	Physics I: Mechanics/Lab		X	4
EGR 106	Engineering Physics II (Suggested Elective)	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
ENG 101	Introduction to College Writing	X		3	AENG 110Z	Writing and Critical Inquiry	X		3
MAT 131	Calculus I (Suggested SUNY Gen. Ed. Mathematics)	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 132	Calculus II (Mathematics/Science Core)		X	4	AMAT 113	Calculus II		X	4
MAT 220	Linear Algebra (Mathematics/Science Core)		X	3	AMAT 220	Linear Algebra		X	3
MAT 231	Calculus III (Mathematics/Science Core)		X	4	AMAT 214	Calculus of Several Variables		X	4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Electives			6		Liberal Arts Electives			6
	Elective Credits			3		Elective Credits			3
HRD 110	Freshmen Experience*			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					APHY 240/245	Physics III: Structure of Matter/Lab		X	4
					APHY 235	Mathematics in Physics		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 300-level or above		X	3
						Elective credits required for Degree Completion		X	0-5
					Minor	A Minor is required at UAlbany		X	18-24
				Total Credits eligible for Transfer	63				
					Total Transfer Credits Applied to Program				63
					Total Credits Required after Transfer				57-58
					Total Credits Required for Degree				120-121

*The University at Albany does not accept transfer credit for Freshmen Experience courses at this time.

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University at Albany College of Engineering and Applied Sciences

SUNY Adirondack Computer Science A.S.					University at Albany Computer Science 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
CIS 143	Introduction to Programming		X	3	ICSI 201	Introduction to Computer Science		X	3
CIS 144	Intermediate Programming in a Windows Environment			3	ICSI 010	Computer Science Elective			3
CIS 150	Topics in Computing			3	ICSI 010	Computer Science Elective			3
CIS 243	Data Structures and Objects in C++			4	ICSI 010	Computer Science Elective			4
CIS 244	Computer Systems and Programming		X	3	ICSI 333	Programming at the Hardware Software Interface		X	3
EGR 105	Engineering Physics I (Suggested SUNY Gen. Ed. Natural Science with Lab)	X		4	APHY 140/145	Physics I: Mechanics/Lab	X		4
ENG 101	Introduction to College Writing	X		3	AEENG 010Z	English Elective	X		3
MAT 129	Discrete Mathematics			3	AMAT 010	Mathematics Elective			3
MAT 131	Calculus I	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 132	Calculus II (Suggested SUNY Gen. Ed. Mathematics)	X	X	4	AMAT 113	Calculus II	X	X	4
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	Computer Science or Mathematics Elective			3		Computer Science or Mathematics Elective			3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Electives (at least 2 credits must be from SUNY Gen. Ed. Areas)			6		Liberal Arts Electives			6
	Elective Credits			4		Elective Credits			4
HRD 110	Freshmen Experience*			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					ICSI 210	Discrete Structures		X	4
					ICSI 310	Data Structures		X	3
					ICSI 404	Computer Organization		X	3
					ICSI 311 or ICSI 405	Principles of Programming Languages Object Oriented Programming Principles and Practice		X	3
					ICSI 402 or ICSI 418	Systems Programming Software Engineering		X	3
					AMAT 367	Discrete Probability		X	3
						Computer Science Major Electives**		X	6
						Elective credits required for Degree Completion		X	4-10
					Minor	A Minor is required at UAlbany		X	18-24
				Total Credits Eligible for Transfer	64				
								Total Transfer Credits Applied to Program	64
								Total Credits Required after Transfer	56
								Total Credits Required for Degree	120

*The University at Albany does not currently accept transfer credit for Freshmen Experience courses.

**Computer Science Major Electives must be 400-470 or 500-550 or specially approved by the department.

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SUNY Adirondack Computer Science A.S.					University at Albany Computer Science 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
CIS 143	Introduction to Programming		X	3	ICSI 201	Introduction to Computer Science		X	3
CIS 144	Intermediate Programming in a Windows Environment			3	ICSI 010	Computer Science Elective			3
CIS 150	Topics in Computing			3	ICSI 010	Computer Science Elective			3
CIS 243	Data Structures and Objects in C++			4	ICSI 010	Computer Science Elective			4
CIS 244	Computer Systems and Programming		X	3	ICSI 333	Programming at the Hardware Software Interface		X	3
EGR 105	Engineering Physics I (Suggested SUNY Gen. Ed. Natural Science with Lab)	X	X	4	APHY 140/145	Physics I: Mechanics/Lab	X	X	4
EGR 106	Engineering Physics II (Suggested Elective)	X	X	4	APHY 150/155	Physics II: Electromagnetism/Lab	X	X	4
ENG 101	Introduction to College Writing	X		3	AENG 010Z	English Elective	X		3
MAT 129	Discrete Mathematics			3	AMAT 010	Mathematics Elective			3
MAT 131	Calculus I	X	X	4	AMAT 112	Calculus I	X	X	4
MAT 132	Calculus II (Suggested SUNY Gen. Ed. Mathematics)	X	X	4	AMAT 113	Calculus II	X	X	4
MAT 220	Linear Algebra (Computer Science or Mathematics Elective)		X	3	AMAT 220	Linear Algebra		X	3
	SUNY Gen. Ed. American History	X		3		SUNY Gen. Ed. American History	X		3
	SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3		SUNY Gen. Ed. The Arts, Foreign Language or Humanities	X		3
	SUNY Gen. Ed. Basic Communication	X		3		SUNY Gen. Ed. Basic Communication	X		3
	SUNY Gen. Ed. Social Science	X		3		SUNY Gen. Ed. Social Science	X		3
	SUNY Gen. Ed. Western Civilization	X		3		SUNY Gen. Ed. Western Civilization	X		3
	Health and Wellness Elective			2		General Elective Credits			2
	Liberal Arts Electives (at least 2 credits must be from SUNY Gen. Ed. Areas)			6		Liberal Arts Electives			6
HRD 110	Freshmen Experience*			1		No Credit Transferred			0
					Additional Required and Elective Courses for the Major at UAlbany				
						Challenges of the 21 st Century		X	3
					ICSI 210	Discrete Structures		X	4
					ICSI 300Z	Social, Security, and Privacy Implications of Computing		X	3
					ICSI 310	Data Structures		X	3
					ICSI 311	Principles of Programming Languages		X	3
					ICSI 402	Systems Programming		X	3
					ICSI 403	Algorithms and Data Structures		X	3
					ICSI 404	Computer Organization		X	3
					ICSI 409	Automata and Formal Languages		X	3
					AMAT 214**	Calculus of Several Variables		X	3
					AMAT 367	Discrete Probability		X	3
						Science Sequence***		X	6
						Computer Science Major Elective****		X	9
						Elective credits required for Degree Completion		X	7
				Total Credits Eligible for Transfer	64				
					Total Transfer Credits Applied to Program				64
					Total Credits Required after Transfer				56
					Total Credits Required for Degree				120

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**Students may take AMAT 214 or 3 credits or any AMAT course numbered 300-level or above.

*** Select an approved pair: ABIO 120 and 121; APHY 240 and 250; APHY 353, APHY 415, and 454 (only select two)

****6-9 credits must be ICSI 300-470 or 500-550. 0-3 credits may be AHPY 353 or APHY 454 in digital hardware, or APHI 432 in advanced logic.

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