

Herkimer County Community College Liberal Arts and Sciences: Science (A.S.)					SUNY Polytechnic Institute Biology				
Course #	Course Title	SUNY Gen Ed		Credits Granted	Course #	Equivalent Course Title	Common Core		Credits Accepted
Year One-Fall					Year One-Fall				
EN 111	College Writing	BCM 001		3	ENG 101	English Composition			4
FS 105	First Year Student Seminar – Science			1	FYS 101	First Year Seminar			1
SC 155	Biological Science I			4	BIO 103T/L	Introductory Biology I			4
SC 153	General Chemistry I			4	CHE 130T/L	Introductory Chemistry I			4
	Mathematics Elective*			3-4	MAT 151	Calculus I (see note below)			4
	Social Science Selective*			3					
	Poly recommendations: Math elective MA245 Calculus I, MA141 Precalculus, or MA 132 College Math depending on placement. Suggested Social Science Selective SS151 Intro Psychology if planning to pursue health care field.								
Year One-Spring					Year One-Spring				
EN 112	College Literature			3					
SC 156	Biological Science II			4	BIO 104 T/L	Introductory Biology II			4
SC 154	General Chemistry II			4	CHE 131 T/L	Introductory Chemistry II			4
	Mathematics Elective*			3-4	STA 100	Statistics			4
	Western Civilization Selective			3		General Education Elective			4
	*Poly recommendations: Math elective as next math in MA132/141/245 sequence, or MA127 Mathematical Statistics I if sequence is completed through MA245)								
Year Two-Fall					Year Two-Fall				
SC225	Organic Chemistry I			4	CHE 230	Organic Chemistry I			4
	Arts Selective			3		General Education Elective			4
	MA/SC Elective*			3-4	PHY 101	Physics I			4
	Elective*			3		General Education Elective			4
	Physical Education Activity			1					
	*Poly recommendations: MA/SC elective to complete math sequence through MA245, MA127, or SC elective as noted below								
Year Two-Spring					Year Two-Spring				
SC 226	Organic Chemistry II			4	CHE 231	Organic Chemistry II			4
	Humanities Elective			3		General Education Elective			4
	MA/SC Elective*			3-4	BIO 351	Genetics			4
	Elective*			3		Open Elective (Physics 2 if needed)			4
	Physical Education Activity			1	Year Three-Fall				
	*Poly recommendations: MA/SC elective to complete math sequence through MA245, MA127, or SC elective as noted below								
					CHE 430	Biochemistry I			4
					BIO 270	Cell Biology			4
						Biology Program Elective			4
						Open Elective			4
					Bio 390	Junior Seminar (1 credit)			1
					Year Three-Spring				
					BIO 315	Plant/Animal Physiology			4
					COM 308	Analytical and Research Writing			4
						Bio Program Elective			4
						Open Elective			4
					Year Four-Fall				
					BIO 300	Ecology			4
						Biology Program Elective			4
						Open Elective			4

							Open Elective			4
						Year Four-Spring				
						BIO 380	Evolution			4
							Open Elective			4
							Open Elective			4
							Open Elective			4
						BIO 487	Senior Seminar			1
<b>Total Credits Eligible for Transfer</b>						<b>57-61</b>	<b>Total Transfer Credits Applied to Program</b>			<b>57-61</b>
<b>Total Credits Eligible for Transfer</b>						<b>57-61</b>	<b>Total Credits Required after Transfer</b>			<b>69-65</b>
<b>Total Credits Eligible for Transfer</b>						<b>57-61</b>	<b>Total Credits Required for Degree</b>			<b>126</b>

Science Elective Notes: The following allowed elective courses within the Herkimer LAS: Science degree program will transfer as listed below to the SUNY Polytechnic Institute Biology BS program

MA127 = STA 100 Statistics I, required for Poly biology majors

SC133/233 = PHY 101T/L or PHY 201 /L, required for Poly biology majors

SC134/234 = PHY 102T/L or PHY 202T/L, required for pre-med preparation (not for the major)

SC211 = BIO 275T/L, allowed Poly biology program elective (3 electives needed in total)

SC214 = BIO 270, required for Poly biology majors

SC253 + SC254 = BIO 215T/L + Bio 216T/L, allowed Poly biology program electives, must take both I and II at the same institution (3 electives needed in total)

SC255 = BIO 351, required for Poly biology majors

Other notes:

Students may use SC211, SC253, and SC254 as Poly Biology program electives; however, if all three are used, they will have to also choose another class at the 300/400 level to meet the upper division 30 credit graduation requirement.

For the Anatomy and Physiology sequence, students must take both classes in the sequence at the same institution: either SC253 and SC254 must both be taken at Herkimer or Bio 215T/L and Bio 216T/L must both be taken at Poly. There is not a direct equivalence between the individual courses SC253 and Bio 215T/L or SC254 and Bio 216T/L.

The SC255 = BIO 351 has been carefully examined by both instructors to ensure that they are indeed equivalent as per SUNY requirements. This particular equivalency will get careful evaluation at every agreement renewal to check equivalency.

Most Poly biology program electives have prerequisites; be sure to check when planning individual program of study.

Several open electives spots are available in the Poly program of study; these can be used for spaces needed to progress through the math sequence to Calculus 1, for more science electives, for classes towards a minor, for pre-professional prerequisite requirements, etc. Physics may also be taken in the open spots in years 3 and 4 to make room for more electives at Herkimer, but students should be aware that Precalculus is a prerequisite for Physics at Poly.