

## Articulation Agreement

Herkimer County Community College  
Liberal Arts and Sciences:  
Science (A.S.)

SUNY Plattsburgh  
Biology (B.S.)

Spring, 2016

### THE AGREEMENT

This articulation agreement is intended to facilitate the transfer of graduates from Herkimer County Community College's Associate in Science (A.S.), Liberal Arts and Sciences: Science program to SUNY Plattsburgh's Bachelor of Science (B.S.), Biology program.

### OBJECTIVES

1. To attract qualified students to Herkimer County Community College and SUNY Plattsburgh.
2. To facilitate upward educational career mobility in biology.
3. To promote the efficient transfer of qualified students from Herkimer County Community College to SUNY Plattsburgh.
4. To disseminate program specific information to students who wish to obtain a baccalaureate degree in biology.
5. To provide students with advisement in academic and career planning throughout their program of study.
6. To reduce the completion of unnecessary courses.
7. To facilitate communication and academic coordination between faculty, students and administrators at each institution.

### TERMS AND CONDITIONS

1. A graduate of Herkimer County Community College's Associate in Science (A.S.), Liberal Arts and Sciences: Science program, will be accepted into SUNY Plattsburgh's Bachelor of Science (B.S.), Biology program, upon meeting the following conditions:
  - a. Apply for admission to SUNY Plattsburgh.
  - b. Achieve a minimum over-all cumulative grade point average of 2.0.
2. SUNY Plattsburgh will accept up to 67 Herkimer County Community College transfer credits.
3. A Bachelor of Science with the major in Biology will be awarded upon meeting the following:
  - a. Satisfactory completion of a minimum of 120 credit hours.
  - b. A minimum grade point average of 2.0.

- c. A minimum grade of “C” in Written Expression (Herkimer’s EN111).
  - d. A minimum grade of “C” in all transfer biology courses.
  - e. A minimum grade of “C” in all Plattsburgh Biology (BIO) courses.
  - f. A minimum overall GPA of 2.50 in all major, departmental requirements.
  - g. A minimum of 45 credit of upper-division, 300-400 level courses, with 21 of the upper-division credits being completed in residence at Plattsburgh.
  - h. The departmental residency requirement is a minimum of 18 major biology (BIO) credits completed at Plattsburgh.
  - i. The residency requirement is 36 credit hours completed at Plattsburgh.
  - j. Completion of 60 credits in liberal arts for the Bachelor of Science.
  - k. Completion of general education.
  - l. Completion of all major requirements.
  - m. Students must complete 30 of their last 36 credits in residence.
4. Herkimer County Community College and SUNY Plattsburgh will disseminate information about this articulation agreement.
  5. Changes in this agreement can be made at any time by mutual consent.
  6. This agreement will remain in effect for three years. The agreement can be terminated by either party prior to this date. Termination would require a minimum of six months notification.

Herkimer County Community College  
 Liberal Arts and Sciences: Science –  
 Associate in Science (A.S.)

Catalog#	Course Title	Credit Hours
<b>1<sup>st</sup> Year</b>		
<b>1<sup>st</sup> Semester</b>		
EN111	English I – College Writing	3
FS105	First Yr Student Sem- Science	1
	Laboratory Science Electives	8
	Mathematics Elective	3-4
	Social Science Elective	<u>3</u>
	Total Credit Hours:	18-19
<b>2<sup>nd</sup> Semester</b>		
EN112	English II – Intro to Lit	3
	Laboratory Science Electives	8
	Mathematics Elective	3-4
	Western Civilization Elective	<u>3</u>
	Total Credit Hours:	17-18
<b>2<sup>nd</sup> Year</b>		
<b>3<sup>rd</sup> Semester</b>		
	Laboratory Science Elective	4
	Arts Elective	3

Mathematics OR Science Elective	3-4
Elective	3
Physical Education Activity	<u>1</u>
Total Credit Hours:	14-15

#### **4<sup>th</sup> Semester**

Laboratory Science Elective	4
Humanities Elective	3
Mathematics OR Science Elective	3-4
Elective	3-4
Physical Education Activity	<u>1</u>
Total Credit Hours:	14-16

Total Credit Hours:	63-68
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### **SUNY Plattsburgh Recommendation**

The Herkimer County Community College program requires courses which meet 7 of the 10 SUNY General Education competencies and a minimum of 30 credits of general education coursework. The SUNY General Education requirements on the SUNY Plattsburgh program are satisfied.

#### **Herkimer Courses Required:**

- SC155 Biological Sciences I (4 cr.)**
- SC156 Biological Sciences II (4 cr.)**
- SC153 General Chemistry I (4 cr.)**
- SC154 General Chemistry II (4 cr.)**
- MA127 Mathematical Statistics I (3 cr.)**

**Select four courses from the following. If selecting sequential courses, complete both courses at Herkimer.**

- MA245 Calculus I (4 cr.)**
- SC133 Physics I (4 cr.)**
- SC134 Physics II (4 cr.)**
- SC211 Microbiology I (4 cr.)**
- SC225 Organic Chemistry I (4 cr.)**
- SC226 Organic Chemistry II (4 cr.)**
- SC233 Calculus Physics I (4 cr.)**
- SC234 Calculus Physics II (4 cr.)**
- SC255 Genetics (4 cr.)**

## Course Equivalencies:

<u>Herkimer County Community College</u>		<u>SUNY Plattsburgh</u>	
SC155	Biological Sciences I	BIO101	General Biology I
SC156	Biological Sciences II	BIO102	General Biology II
SC211	Microbiology I	BIO203	Microbiology
SC255	Genetics	BIO305	General Genetics
SC153	General Chemistry I	CHE111	Fund Prin of Chemistry I
SC154	General Chemistry II	CHE112	Fund Prin of Chemistry II
SC225	Organic Chemistry I	CHE241	Organic Chemistry I
SC226	Organic Chemistry II	CHE242	Organic Chemistry II
EN11	English I - College Writing	ENG101	College Writing II
MA127	Mathematical Statistics I	MAT161	Introductory Statistics
MA245	Calculus I	MAT224	Calculus I
SC133	Physics I	PHY103	Physics for Life Sciences I
SC134	Physics II	PHY104	Physics for Life Sciences II
SC233	Calculus Physics I	PHY111	General Physics I
SC234	Calculus Physics II	PHY112	General Physics II

## Courses to be completed at SUNY Plattsburgh:

### General Education

Students enrolling at SUNY Plattsburgh with 7 of the 10 SUNY General Education areas completed and have at least 30 SUNY General Education credits, will have satisfied the SUNY General Education portion of their Plattsburgh degree requirements. The only remaining General Education course needed will be the Plattsburgh requirement of Global Issues.

	<u>Credit Hours</u>
Global Issues	3

### SUNY Plattsburgh

#### Major Requirements – Biology (B.S.)

<u>Catalog#</u>	<u>Course Title</u>	<u>Credit Hours</u>
<b>A. Departmental Requirements:</b>		
BIO101	General Biology I	(HCCC's SC155)
BIO112	General Biology II	(HCCC's SC156)
BIO203	Microbiology (4 cr.) or (if HCCC's SC211 taken)	
BIO205	Introduction to Botany (3 cr.)	
BIO209	Vertebrate Zoology (3 cr.) <i>or</i>	
BIO323	Invertebrate Zoology (3 cr.) <i>or</i>	
BIO329	Animal Behavior (3 cr.)	*3-4

BIO208	Evolution	3
BIO304	Ecology	4
BIO305	General Genetics (if HCCC's SC255)	*4
BIO380	Communicating Biology (3 cr.) <i>or</i>	
BIO490	Cellular Biochemistry Research Experience (15 cr.)**	3-15
BIO401	Cell Biology (4 cr.) <i>or</i>	
BIO490	Cellular Biochemistry Research Experience (15 cr.)**	4-15
BIO411	Plant Physiology (4 cr.) <i>or</i>	
BIO421	Principles of Animal Physiology (4 cr.) <i>or</i>	
BIO326	Human Anatomy and Physiology I (4 cr.) <i>and</i>	
BIO327	Human Anatomy and Physiology II (4 cr.)***	4-8
	Biology Electives	**9
	<i>BIO200 level or above. At least six credits must be BIO300 or BIO400 level courses. No more than three credits of BIO495, BIO496, or BIO499 in any combination can be counted towards the Biology Electives requirement.</i>	
	<b>B. Cognate Requirements</b>	
CHE111	Fundamental Principles of Chemistry I (HCCC's SC153)	
CHE112	Fundamental Principles of Chemistry II (HCCC's SC154)	
PHY103	Physics for Life Science I (if HCCC's SC133 taken)	<i>or</i>
PHY111	General Physics I (if HCCC's SC233 taken)	*4
PHY104	Physics for Life Science II (if HCCC's SC134 taken)	<i>or</i>
PHY112	General Physics II (if HCCC's SC234 taken)	*4
CHE241	Organic Chemistry I (if HCCC's SC225 taken)	*4
CHE242	Organic Chemistry II (if HCCC's SC226 taken)	*4
CHE371	General Biochemistry (4 cr.) <i>or</i>	
CHE401	Biochemistry I (3 cr.) <i>and</i>	
CHE481	Biochemistry Laboratory I (1 cr.)	4
MAT161	Introductory Statistics (3 cr.)	(HCCC's MA127)
MAT221	Calculus for Life Management & Social Science I	<i>or</i>
MAT224	Calculus I (if HCCC's MA245 taken)	*3-4

CREDITS REMAINING AT PLATTSBURGH

Departmental Requirements	31
Cognate Requirements	12
Plattsburgh General Education	3
Electives(UPPER-DIVISION 300/400 LEVEL)	**** <u>17</u>
TOTAL	63

Totals estimate one extra biology course taken in addition to SC155-156 Biological Principles I & II, and three of the Cognates requirements completed at Herkimer.

NOTES:

\*Satisfied if the equivalent course is completed at Herkimer.

\*\*BIO495 (15 cr.) satisfies Cell Biology (BIO401, 4 cr.), the Advanced Writing Requirement (BIO380, 3 cr.), Oral Expression (General Education Skills, 0 cr.), and 8 biology elective credits.

\*\*\*Both semesters of Human Anatomy and Physiology must be taken to satisfy the physiology requirement, but one semester may be used as a biology elective.

\*\*\*BIO333 if used to satisfy the MAT131/MAT161/MAT333 requirement in the Cognate Requirements cannot also count towards Biology Elective credits in the Departmental Requirements.

\*\*\*\*\*All electives must be upper-division 300/400 level.

Approved By:

Herkimer County Community  
College



Cathleen McColgin,  
President

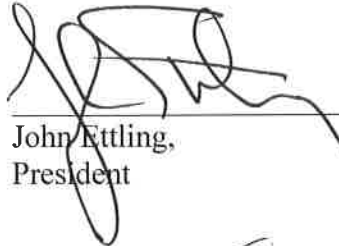


Michael Oriolo,  
Provost



Alan Cronauer,  
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SUNY Plattsburgh



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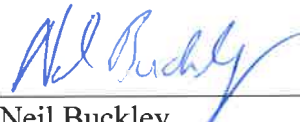
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