

MINNESOTA STATE COLLEGES AND  
UNIVERSITIES\*  
ARTICULATION AGREEMENT  
BETWEEN

RIVERLAND COMMUNITY COLLEGE  
AND  
MINNESOTA STATE UNIVERSITY, MANKATO

\*The Board of Trustees of the Minnesota State Colleges and Universities is authorized by Minnesota Statutes, Chapter 136F to enter into Agreements and has delegated this authority to colleges and universities.

This Agreement is entered into between Riverland Community College (hereinafter sending institution), and Minnesota State University, Mankato (hereinafter receiving institution). This Agreement and any amendments and supplements, shall be interpreted pursuant to the laws of the State of Minnesota.

The sending institution has established a **Biotechnology, Associate in Science** degree (hereinafter sending program), and the receiving institution has established a **Biotechnology Bachelor of Science** (hereinafter receiving program), and will facilitate credit transfer and provide a smooth transition from one related program to another. It is mutually agreed:

**Admission and Graduation Requirements**

- A. The receiving institution's admission and program admission requirements apply to both direct entry students and to students who transfer under this agreement.
- B. Students must fulfill the graduation requirements at both institutions.
- C. Students must complete the entire sending program and meet the receiving institution's admission requirements for the agreement to apply.

**Transfer of Credits**

- A. The receiving institution will accept 60 credits from the sending program. A total of 60 credits remain to complete the receiving program.
- B. Courses will transfer as described in the attached Program Articulation Table. For system institutions, once the courses are encoded, they will transfer as described in the Transferology Audit.

**Implementation and Review**

- A. The Chief Academic Officers or designees of the parties to this agreement will implement the terms of this agreement, including identifying and incorporating any changes into subsequent agreements, assuring compliance with system policy, procedure and guidelines, and conducting a periodic review of this agreement.
- B. This Articulation Agreement is effective on January 30, 2015, and shall remain in effect until the end date of January 30, 2020, or for five years, whichever occurs first, unless terminated or amended by either party with 90 days prior written notice.
- C. The college and university shall work with students to resolve the transfer of courses should changes to either program occur while the agreement is in effect.
- D. This Articulation Agreement will be reviewed by both parties beginning August 30, 2019, (within six months of the end date).
- E. When a student notifies the receiving institution of their intent to follow this agreement, the receiving institution will encode course waivers and substitutions.

## PROGRAM ARTICULATION TABLE

	College (sending)	University (receiving)
Institution	Riverland Community College	Minnesota State University, Mankato
Program name	Biotechnology	Biotechnology
Award Type (e.g., AS)	Associate in Science	Bachelor of Science
Credit Length	60	120
CIP code (6-digit)	41.0101	41.0101
Describe program admission requirements (if any)		Granted by the department. Admission requirements are 32 earned semester credit hours including BIOL105 and BIOL106, with a grade of a C or better in both BIOL105 and 106; and a minimum cumulative GPA of 2.0.

### Instructions

- List all required courses in both academic programs.
- MnTC goal areas transfer to the receiving institution according to the goal areas designated by the sending institution.
- Do not indicate a goal area for general education courses that are not part of the MnTC.
- For restricted or unrestricted electives, list number of credits.
- Credits applied: the receiving institution course credit amount may be more or less than the sending institution credit amount. Enter the number of credits that the receiving institution will apply toward degree completion.
- Show equivalent university-college courses on the same row to ensure accurate DARS encoding.
- Equiv/Sub/Wav column: If a course is to be encoded as equivalent, enter Equiv. If a course is to be accepted by the university as a "substitution" only for the purposes of this agreement, enter Sub. If a course requirement is waived by the receiving institution, enter Wav. If a course is to be accepted by the university as a MnTC goal area, restricted elective or unrestricted elective, leave the cell blank.

(To add rows, place cursor outside of the end of a row and press enter.)

### SECTION A - Minnesota Transfer Curriculum-General Education

College (sending)			University (receiving)			
course prefix, number and name	Goal(s) <sup>1</sup>	Credits	course prefix, number and name	Goal(s) <sup>1</sup>	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL1101 Freshman English	1	3	ENG 101 Composition	1	3	Equiv
SPCH1100 Fundamentals of Speech OR SPCH1200 Interpersonal Communication OR	1,9 1,7	3	CMST102 Public Speaking CMST101W Interpersonal Communications	1,9 1,7	3	Equiv
SPCH1310 Intercultural Communication	1,7		MnTC Goal 1 & 7	1,7		
BIOL1091 General Biology I	3	4	BIOL105 General Biology I	3	4	Equiv
BIOL1092 General Biology II	3,10	4	BIOL106 General Biology II	3,10	4	Equiv
CHEM1201 General Chemistry I	3	4	CHEM201 General Chemistry I (5 cr) See Note	3	4	Sub
CHEM1202 General Chemistry II	3	4	CHEM202 General Chemistry II (5 cr) See Note	3	4	Sub
PHYS1501 College Physics I	3	4	PHYS211 Principles of Physics I	3	4	Sub
PHYS1502 College Physics II	3	4	PHYS212 Principles of Physics II	3	4	Sub
MATH1210 Single Variable Calculus I	4	5	MATH121 Calculus 1 (4 cr)	4	5	Equiv
MATH1220 Single Variable Calculus II	4	5	MATH122 Calculus 2	4	5	Equiv

<sup>1</sup> MnTC goal areas transfer to the receiving college/university according to the goal areas designated by the sending college/university

SOCI1103 Social Problems	5,9	3	SOC150 Social Problems	5,9	3	Equiv
PHIL1130 Ethics	6,9	3	PHIL120W Introduction to Ethics	6,9	3	Equiv
GEOG1200 – Human Geography	5,10	3	GEOG103 Introductory Cultural Geography	5,10	3	Equiv
Humanities & Fine Arts: Any MnTC course (Choose a discipline other than PHIL)	6	1	Humanities & Fine Arts: Any MnTC course (Choose a discipline other than PHIL)	6	1	Sub
<b>MnTC/General Education Total</b>		<b>50</b>				

**Special Notes, if any:** MSU Mankato will only consider Chem 1201 and 1202 equivalent to Chem 201 and 202 if the student passes Chem 320 with a C or better.

### SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other

(pre-requisite courses, required core courses, required courses in an emphasis, or electives (restricted or general) within the major). Restricted electives (in Major) fulfill a specific requirement within a major. Example A: “Chose two of the following three courses;” Example B: A Biology degree may require 40 science credits (20 credits of required courses + 20 credits of listed related courses, such as botany, genetics, sociobiology, etc. which students can select).

Major, Emphasis, Restricted, Unrestricted Electives or Other Courses						
BIOL2040 General Microbiology	3	4	BIOL270 General Microbiology	3	4	Equiv
5 credits chosen from MnTC to complete goal requirements		5	5 credits chosen from MnTC to complete goal requirements		5	Equiv
Physical Education/Health		1	Elective		1	Equiv
Restricted elective credits - list courses (if none enter 0)		0				
		0	College's unrestricted elective credits accepted in transfer (if none enter 0)		0	
<b>Major, Emphasis, Unrestricted Electives Total</b>		<b>10</b>	<b>Total College Credits Applied (sum of sections A and B)</b>		<b>60</b>	

### SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	MnTC Goal 8 course	3
	BIOL211 Genetics	4
	BIOL320 Cell Biology	4
	BIOL452 Biological Instrumentation	3
	BIOL453 Biological Engineering Analysis I	4
	BIOL454 Biological Engineering Analysis II	4
	BIOL474 Immunology	4
	BIOL476 Microbial Physiology and Genetics	5
	BIOL479 Molecular Biology	4
	CHEM322/323 Organic Chemistry I & Supplement	5
	CHEM360 Principles of Biochemistry	4
	Capstone Experience	6
	University unrestricted elective credits not counted elsewhere (if none enter 0)	10
	<b>Total Remaining University Credits</b>	<b>60</b>

**Special Notes, if any:** Any remaining general education requirements will need to be met using the 10 credits of unrestricted electives.

### SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	50		
Major, Emphasis, Unrestricted Electives or Other	10		
<b>Total College Credits</b>	<b>60</b>	<b>Total College Credits Applied</b>	<b>60</b>
		<b>Remaining credit to be taken at the university (receiving institution)</b>	<b>60</b>
		<b>Total Program Credits</b>	<b>120</b>
<b>Special Notes, if any:</b>			

College	Name	Signature	Date
Chief Academic Officer	Mary Davenport, Ph.D.	<i>Mary Davenport</i>	3/17/15
Title			
University	Name	Signature	Date
Chief Academic Officer	Marilyn J. Wells, Ph.D.	<i>Marilyn J. Wells</i>	2/14/15
Title			
DARS Encoder	Deborah Beal	<i>Deborah Beal</i>	3/19/15

Date when equivalencies were encoded in DARS by the receiving MnSCU institution.