

**MINNESOTA STATE COLLEGES AND  
UNIVERSITIES\*  
ARTICULATION AGREEMENT  
BETWEEN**

**Rochester Community and Technical College  
AND  
Winona State University**

\*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 Rochester Community and Technical College [851 30th Avenue Southeast, Rochester, MN 55904] (hereinafter sending institution), and Winona State University [175 West Mark Street, Winona, MN 55987] (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 an **Environmental Science A.S.** (hereinafter sending program), and the receiving institution has established a **Biology – Environmental Science B.S.** (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, including grade requirements for courses and an overall GPA requirement.

**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 08/01/2017 and shall remain in effect until the end date of 08/01/2022 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 2/01/2021 (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.

July 12, 2017

## PROGRAM ARTICULATION TABLE

	College (sending)	University (receiving)
Institution	Rochester Community and Technical College	Winona State University
Program name	Environmental Science	Biology – Environmental Science option
Award Type (e.g., AS)	AS	BS
Credit Length	60	120
CIP code (6-digit)	03.010401	03.010414
Describe program admission requirements (if any)		All courses must be taken for grade, and only a minimum grade of "C" will be acceptable. To be considered for admission, students must have a minimum 2.5 GPA for the courses listed.

### 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<sup>1</sup>

College (sending)			University (receiving)			
course prefix, number and name	Goal(s) <sub>3</sub>	Credits	course prefix, number and name	Goal(s) <sup>1</sup>	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL 1117 Reading and Writing Critically I	1	4	ENG 111 College Reading & Writing (ENGL 1117+1118 = ENG 111)	1	8	Equiv
ENGL 1118 Reading and Writing Critically II	1	4				
COMM 1114 Fundamentals of Speech	1	3	CMST 191 Intro to Public Speaking	1	3	Equiv
BIOL 1220 Concepts of Biology	3, 10	4	BIOL 241 Basics of Life	3, 10	4	Equiv
CHEM 1127 Chemical Principles I	3	4	CHEM 212 Principles of Chemistry I	3	4	Equiv
BIOL 1102 Plant Biology <sup>2</sup>	3	3 <sup>2</sup>	BIOL 418 Plant Ecology <sup>2</sup>	3	3 <sup>2</sup>	Sub
MATH 2208 Fundamentals of Statistics	4	4	STAT 305 Biometry	4	4	Sub
SOC 1614 Introduction to Sociology	5, 7	3	SOC 150 Intro to Sociology	5, 7	3	Equiv
PHIL 1125 Ethics OR PHIL 1130 Environmental Ethics	6, 9 6, 10	3	PHIL 230 Moral Theory	6, 9 6, 10	3	Equiv
<b>MnTC/General Education Total</b>		32				

### Special Notes, if any:

\*\*Students must be prepared to complete one of the following courses at Winona State University: MATH 120 Precalculus, MATH 140 Applied Calculus, or MATH 212 Calculus I. Students may opt to complete equivalent coursework (MATH 1117 Precalculus, MATH 1119 Applied Calculus, or MATH 1127 Calculus I) at RCTC. If students complete the mathematics equivalency at RCTC, fewer credits will be required at Winona State University.

## 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				
BIOL 1230 Survey of Life Forms	4	BIOL 242 Organismal Diversity	4	Equiv
BIOL 2000 Ecology	4	BIOL 312 General Ecology AND BIOL 313 General Ecology Lab	4	Equiv
BIOL 2200 Zoology <sup>2</sup>	4	BIOL 319 Vertebrate Biology <sup>2</sup>	4	Equiv
BIOL 1100 Environmental Biology (3) AND BIOL 1310 Environmental Science Seminar (2) or BIOL 1400 Environmental Science Internship (2) <sup>2,3</sup>	5 <sup>2,3</sup>	BIOL 315 Environmental Biology <sup>2,3</sup>	5 <sup>2,3</sup>	Sub
BIOL 1300 Biological Applications of GIS Technology <sup>4</sup>	3 <sup>4</sup>	GEOS 316 Geographic Information Systems <sup>4</sup>	3 <sup>4</sup>	Sub
BIOL 2300 Genetics	4	BIOL 310 Genetics	4	Equiv
CHEM 1128 Chemical Principles II	4	CHEM 213 Principles of Chemistry II	4	Equiv
<b>Major, Emphasis, Unrestricted Electives Total</b>	28	<b>Total College Credits Applied (sum of sections A and B)</b>	60	

- <sup>1</sup> MnTC goal areas transfer to the receiving MnSCU college/university according to the goal areas designated by the sending college/university
- <sup>2</sup> Course serves as an environmental science option requirement.
- <sup>3</sup> Five credits transfer to the receiving MnSCU college/university according to the MnTC goal or general elective areas designated by the sending college/university; three credits apply to the biology major requirements for the degree.
- <sup>4</sup> Course serves as Geoscience elective.

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

	Course prefix, number and name	Credits
	MATH 120 Precalculus (4 SH) or MATH 140 Applied Calculus (3 SH) or MATH 212 Calculus I (4 SH)	3-4
	PHYS 201 General Physics 1 or PHYS 221 University Physics I	4
	PHYS 202 General Physics II or PHYS 222 University Physics II	4
	BIOL 308 Cell Biology (writing intensive) <sup>5</sup>	3
	GEOS 235 Earth and Life Through Time	4
	GEOS 309 Watershed Science	4
	CHEM 340 Organic Chemistry Survey	4
	Environmental Science Option Requirements: Choose a minimum of 8 credits from the following list: (10 credits from RCTC transfer to this category. <sup>6</sup> ) BIOL 318 Invertebrate Zoology (4 SH) BIOL 350 Plant Taxonomy (4 SH) BIOL 360 Entomology (4 SH) BIOL 380 Evolution (3 SH) BIOL 400 (Individual Problems in Biology I (1-3 SH) BIOL 404 Ichthyology (3 SH) BIOL 405 Fishery Biology (3 SH) BIOL 406 Ornithology (4 SH) BIOL 409 General Microbiology (4 SH) (oral intensive) BIOL 415 Ecology of Large Rivers (4 SH) (Writing intensive) BIOL 420 Limnology (4 SH) BIOL 423 Ecosystem Ecology (3 SH) (oral intensive) BIOL 424 Biogeography (3 SH) BIOL 425 Animal Behavior (3 SH)	8
	BIOL 499 Biology Capstone	3
	Remaining MNTC Requirements and/or University unrestricted elective credits not counted elsewhere <sup>7</sup>	20-21
	Physical Development and Wellness Electives	2
	<b>Total Remaining University Credits</b>	<b>60</b>

<sup>5</sup> Graduation requirements must include a total of 6 semester hours of coursework that is flagged as writing intensive. This course fulfills 3 of the 6 required semester hours.

<sup>6</sup> The courses noted below count towards Environmental Science option requirements:

RCTC Course	WSU Course	Semester hours (SH) transferrable toward major requirement
BIOL 1100 Environmental Biology & BIOL 1310 Environmental Science Seminar	BIOL 315 Environmental Biology	3
BIOL 1102 Plant Biology	BIOL 418 Plant Ecology	3
BIOL 2200 Zoology	BIOL 319 Vertebrate Biology	4

<sup>7</sup> Students are encouraged to choose additional Environmental Science option courses.

**SECTION D - Summary of Total Program Credits**

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	32		
Major, Emphasis, Unrestricted Electives or Other	28		
<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>


**Special Notes:**

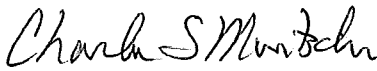

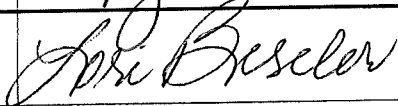
Winona State University requires:

- A minimum of 40 required semester hours (credits) for the baccalaureate degree at the upper-division (300-400) level. *If a lower division course is shown as equivalent to an upper division course, check with the university to determine if it will count toward the 40 required credits of upper division.*
- A minimum of 30 credits out of the last 60 credits to be completed at Winona State University.
- All major emphasis courses taken for grade.
- A cumulative grade point average of at least 2.4 GPA for the courses taken while enrolled at Rochester Community and Technical College.

The following limitations also apply:

- Developmental courses shall not be counted toward graduation.
- No more than 10 credits of successful pass/fail courses outside the major shall be counted toward graduation

Rochester Community & Technical College	Name	Signature	Date
Chief Academic Officer VPAA and CAO Executive VP Academic Affairs	Greg Mosier		12/20/17

Winona State University	Name	Signature	Date
College of Science & Engineering Dean	Charla Miertschin		2/28/18
Chief Academic Officer Provost and VPAA	Patricia Rogers		2-28-18
DARS Encoder	Lori Beseler		3/2/18

3/2/18

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