

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

**NORTHLAND COMMUNITY AND TECHNICAL  
COLLEGE  
AND  
NORTHWESTERN HEALTH SCIENCES  
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 between NORTHLAND COMMUNITY AND TECHNICAL COLLEGE (hereinafter sending institution), and NORTHWESTERN HEALTH SCIENCES UNIVERSITY (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 **HEALTH SCIENCES BROAD FIELD ASSOCIATE IN SCIENCE (AS) DEGREE** (hereinafter sending program), and the receiving institution has established a **BACHELOR OF SCIENCE (BS) COMPLETION IN HUMAN BIOLOGY** (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 08/15/2015 shall remain in effect until the end date of 08/15/2020 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 10/1/2019 (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	Northland Community and Technical College	Northwestern Health Sciences University
Program name	Health Sciences Broad Field	Human Biology
Award Type (e.g., AS)	AS	BS Completion
Credit Length	60	120
CIP code (6-digit)	51.0000	
Describe program admission requirements (if any)		

### 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

Northland Community and Technical College (sending institution) Required Courses		Northwestern Health Sciences University (receiving institution)		
course prefix, number and name	Credits	course prefix, number and name	Credits Applied	Equiv Sub Wav
ANTH 2202 Cultural Anthropology	3	Meets social science requirement (minimum 4 credits)	6	Sub
SOCI 1101 Introduction to Sociology	3			
ENGL 1111 Composition I	3	Meets communication requirement (minimum 4 credits)	6	Sub
SPCH 1101 Introduction to Public Speaking	3			
MATH 1110 College Algebra	3	MATH 1005 Foundations of Math	3	Equiv
MATH 2203 Statistics	4	Meets natural sciences/math requirement (minimum 4 credits)	4	Sub
PSYC 1105 Introduction to Psychology	3	Additional gen ed credit	9	Sub
PSYC 2201 Developmental Psychology	3			
BIOL 2131 Nutrition	3			
BIOL 1111 Biological Principles I	4	BIOL 2010 Intro to Biology	4	Equiv
BIOL 2221 Microbiology*	3	Elective	3	Equiv
BIOL 2252 Anatomy & Physiology I**	3	ANAT 1001 Anatomy & Physiology I ANAT 1002 Anatomy & Physiology II	4	Equiv
BIOL 2254 Anatomy & Physiology II	3		4	
BIOL 2256 Advanced Physiology	2			
CHEM 2205 Survey of Gen/Organic/Bio Chemistry***	4	Elective	4	Equiv
HLTH 1106 Medical Terminology	2	MEDT 1001 Medical Terminology plus 1 elective credit	1 + 1	Equiv

HLTH 2002 Pharmacology	2	General Education Elective	2	Sub
<b>Total</b>	51	<b>Total Section A:</b>	51	

### SECTION B - Restricted and Unrestricted Electives or Other

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).

Northland Community and Technical College (sending institution)		Northwestern Health Sciences University (receiving)		
Major, Emphasis, Restricted, Unrestricted Electives or Other Courses	Credits		Credits Applied	Sub Waiv Equiv
<b>Humanities/Fine Arts Elective (Total 3 credits)</b>		Applies to Humanities 4-Credit Requirement*	3	Sub
PHIL 1102 Introduction to Ethics	3			
PHIL 2210 Morals and Medicine	3			
<b>Program Specific Electives (Total 6 credits)</b>		Applies to Elective Credit	6	Sub
EMTB 1101 Emergency Medical Technician	6			
HLTH 1101 Introduction to Health professions	3			
HLTH 1105 Intro to Cardiovascular Technology	3			
HLTH 1108 Cultural Diversity	1			
HLTH 1110 Nursing Assistant	3			
HLTH 1140 Electronic Health Records	3			
HLTH 2208 Pathophysiology	3			
HPER 2250 Prevention/Care of Athletic Injuries	3			
HPER 2270 Health and Wellness	3			
OTAC 1001 Introduction to Occupational Therapy	2			
RADT 1110 Intro to Radiologic Tech/Patient Care	3			
RESP 1110 Adult Critical Care	4			
SPCH 2205 Intercultural Communication	3			
SURT 1102 Introduction to Surgical Technology	2			
<b>Electives Total</b>	9	<b>Total NCTC Credits Applied (sum of sections A and B)</b>	60	

**\*Note:** NCTC students would have to take an additional 3-credit Humanities course to meet the 4-credit Humanities requirement at NWHSU.

**\*BIOL 2221 Microbiology** from the sending institution 3 is not equivalent to BIOL 4010 Microbiology at the receiving institution and is transferred in as elective credit.

**\*\*BIOL 2252 Anatomy & Physiology I and BIOL 2254 Anatomy & Physiology II and BIOL 2256 Advanced Physiology** from the sending institution are transferred in as a block to satisfy ANAT 1001 Anatomy & Physiology 1 and ANAT 1002 Anatomy & Physiology 2 at the receiving institution. Neither BIOL 2252 Anatomy & Physiology I nor BIOL 2254 Anatomy & Physiology II from the sending institution is equivalent to either ANAT 1001 Anatomy & Physiology 1 or ANAT 1002 Anatomy & Physiology 2 at the receiving institution standing alone.

**\*\*\*CHEM 2205 Survey Gen/Org/Bio Chemistry** from the sending institution, as a survey course, is not equivalent to either CHEM 2048 General Chemistry 1 or CHEM 2058 Organic Chemistry 1 or BIOL 3010 Biochemistry at the receiving institution and is transferred in as elective credit.

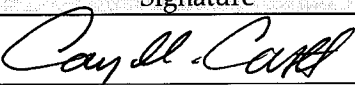

### SECTION C - Remaining NHS University (receiving) Requirements

	course prefix, number and name	Credits
	<b>Foundational Sciences Requirement</b>	
	CHEM 2048 General Chemistry 1	4
	CHEM 2049 General Chemistry 2	4
	CHEM 2058 Organic Chemistry 1	4

	CHEM 2059 Organic Chemistry 2	4	
	PHYS 2040 General Physics 1	4	
	PHYS 2041 General Physics 2	4	
	<b>Major Requirement</b>		
	BIOL 3010 Cell Biology	4	
	BIOL 2020 Biology Today	2	
	BIOL 3110 Biochemistry	4	
	BIOL 4010 Microbiology	4	
	BIOL 4410 Genetics	4	
	CAP 4900 Capstone Project	2	
	<b>Health Professions Core Requirement (12 credits)</b>		
	ANTH 1005 Culture and Health	4	
	ANTH 2005 Human Origins	4	
	MAND 3310 Mandarin for Health Professionals	3	
	HIST 3010 Epistemology of Health	4	
	HIST 3110 History of Health Care	3	
	PSYC 1002 Health Psychology	4	
	PSYC 3210 Psychology of Addiction	3	
	SOC 1006 Sex and Gender	3	
	SPAN 1001 Spanish for Health Professionals	3	
	UGE 3710 Communication Skills for Health Professionals	3	
	UGE 3720 Critical Thinking for Health Professionals	3	
	UGE 3730 Bioethics	3	
	UGE 3740 Understanding and Using Research	3	
	University unrestricted elective credits not counted elsewhere (if none enter 0)	4	
	<b>Total Remaining University Credits<sup>2</sup></b>	<b>60</b>	
	<b>Special Notes, if any:</b>		

<b>SECTION D - Summary of Total Program Credits</b>			
<b>NCTC (sending) Credits</b>		<b>NHS University (receiving) Requirements</b>	
<b>Required Courses</b>	51		
<b>Major, Emphasis, Unrestricted Electives or Other</b>	9		
<b>Total College Credits</b>	<b>60</b>	<b>Total NCTC Credits Applied</b>	<b>60</b>
		<b>Remaining credit to be taken at NHSU (receiving institution)</b>	<b>60</b>
		<b>Total Program Credits</b>	<b>120</b>
<b>Special Notes, if any:</b>			

<sup>2</sup> At least 40 of the required credits for the baccalaureate degree shall be at the upper-division 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.

College	Name	Signature	Date
Chief Academic Officer	GAREY W. CASTLE		27 Oct 15
Title			
University	Name	Signature	Date
President and CEO	Dr. Christopher Cassirer, Sc.D., M.P.H		9-21-15
Title			
DARS Encoder			
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			