

ARTICULATION AGREEMENT BETWEEN	Madison Area Technical College AND Northwestern Health Sciences University

This Agreement is entered into between **Northwestern Health Sciences University** (hereinafter receiving institution), and **Madison Area Technical College** (hereinafter sending 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 **Associate of Applied Science Biotechnology Laboratory Technician** (hereinafter sending program), and the receiving institution has established a **Bachelor of Science 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. Madison Area Technical College students will be accepted for admission to NWHSU upon:
 - 1. Successful completion of approximately 60 semester credits at a regionally accredited institution
 - 2. Cumulative grade point average (GPA) of 2.0 or better
 - 3. Timely submission of all application materials to NWHSU.
- C. Courses will transfer as described in the attached Program Articulation Table.

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 March 1, 2016 and shall remain in effect until the end date of February 28, 2021 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 September 1, 2020 (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	Madison Area Technical College		Northwestern Health Sciences University
Program name	Biotechnology Laboratory Technician		Human Biology
Award Type (e.g., AS)	Associate of Applied Science		BS Completion
Credit Length	70		120
CIP code (6-digit)			
Describe program admission requirements			
Instructions			
<ul style="list-style-type: none"> ▪ List all required courses in both academic programs. ▪ For restricted and 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. 			
SECTION A - General Education			
College (sending)		University (receiving)	
course prefix, number and name	Credits	course prefix, number and name	Credits Applied
20806209 College Chemistry 1* (5 cr) OR	5	CHEM2048 General Chemistry 1, plus 1 credit elective OR	4
20806201 General, Organic & Biological Chemistry *** (5 cr)	(5)	General education credit: Natural Science/Math	(5)
20806212 College Chemistry 2** (5 cr) OR	5	CHEM2049 General Chemistry 2, plus 1 credit elective OR	4
20806216 Chemistry for Biotechnology*** (3 cr)	(3)	General education credit: Natural Science/Math	(3)
10007174 Applied Microbiology (4 cr)	4	BIOL4010 Microbiology	4
20801201 English 1	3	General education credit: English/Communication	3
20801202 English 2	3	General education credit: English/Communication	3
20809203 Introduction to Sociology	3	General education credit: Social Science	3
20809231 Introduction to Psychology	3	General education credit: Social Science	3
10809195 Economics	3	General education credit: Social Science	3
Elective credit	3	Elective credit****	(up to 3)
General Education Total	32		

Special Notes, if any: *A student successfully completing 20806209 College Chemistry 1 at the sending institution will receive credit for CHEM2048 General Chemistry 1 at the receiving.

**A student successfully completing 20806212 College Chemistry 2 at the sending institution will receive credit for CHEM2049 General Chemistry 2 at the receiving institution

***20806201 General, Organic & Biological Chemistry and 20806216 Chemistry for Biotechnology will be accepted as general education credit.

****Up to 3 credits of elective coursework will be accepted as required to bring Section A total to 29 credits.

It is recommended that students take a humanities course to fulfill electives.

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).

College (sending)		University (receiving)	
course prefix, number and name	Credits		Credits
10007103 Biotechnology Laboratory Skills for a Regulated Workplace	3	Elective credit	3
10007104 Chromatography Techniques	3	Elective credit	3
10007105 Bioprocess Technology	3	Elective credit	3
10007108 Hazardous Materials - Biotechnology	1	Elective credit	1
10007110 Biotechnology Applications	1	Elective credit	1
10007111 Biotechnology Career Seminar	1	No credit awarded	0
10007112 Biotechnology Employment Skills	1	No credit awarded	0
10007115 General Cell Biology	4	BIOL3010 Cell Biology	4
10007121 Applied Biochemistry AND 10007124 Molecular Biology 1	3 3	BIOL2010 Introduction to Biology	4
10007122 Protein Bioseparations Methods	3	Elective credit	3
10007123 Cell Culturing	3	Elective credit	3
10007125 Research Methods in Molecular Biology	3	Elective credit	3
10007126 Occupational Work Experience	3	No credit awarded	0
10007136 Laboratory Math for Biotechnology	1	General education credit: Natural Science/Math	1
10007152 Making Biotech Products in a Quality Environment	2	Elective credit	2
Major, Emphasis, Unrestricted Electives Total	38	Total College Credits Applied (sum of sections A and B)	31

Special Notes, if any:

If students from sending institution complete and transfer credit from College Chemistry 1 and College Chemistry 2 an additional 8 credits of elective are available to transfer into the program.

Students who complete College Algebra or higher from sending institution will fulfill the MATH 1005 Foundations of Math course. In addition, if students complete the following course work at sending institution a grade level of C or higher, they will transfer as equivalent courses at Northwestern Health Sciences University.

General Anatomy and Physiology (4 credit) - ANAT1001

Anatomy and Physiology 1 (4 credits) – ANAT1001

Anatomy and Physiology 2 (4 credits) - ANAT1002

General Cell Biology - BIOL3010

Organic Chemistry 1 - CHEM2058

Organic Chemistry 2 - CHEM2059

SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	CHEM 2048 General Chemistry 1 (unless met by 20806209 College Chemistry 1)	4
	CHEM 2049 General Chemistry 2 (unless met by 20806212 College Chemistry 2)	4
	CHEM 2058 Organic Chemistry 1	4
	CHEM 2059 Organic Chemistry 2	4
	MATH 1005 Foundations of Math	3
	PHYS 2020 General Physics 1: Fundamentals of Physics	4
	PHYS 2041 General Physics 2: Electricity and Magnetism	4
	ANAT 1001 Anatomy and Physiology 1	4
	ANAT 1002 Anatomy and Physiology 2	4
	BIOC3110 Biochemistry	4
	BIOL 2020 Biology Today	2
	BIOL 4410 Genetics	4
	CAP 4900 Capstone Project	2
	MEDT 1001 Medical Terminology	1
	Health Professions Core (Requirement of 12 credits from the following)*: <ul style="list-style-type: none"> · ANTH 1005 Culture and Health (4 credits) · ANTH 2005 Human Origins (4 credits) · HIST 3110 History of Health Care (3 credits) · MAND3310 Mandarin for Health Professionals (3 credits) · PHIL 3010 Epistemology of Health (4 credits) · PSYC 1002 Health Psychology (4 credits) · PSYC 3210 Psychology of Addiction (3 credits) · SOC1006 Sex and Gender (3 credits) · SPAN 1001 Spanish for Health Professionals (3 credits) · UGE 3710 Communication Skills for Health Professionals (3 credits) · UGE 3720 Critical Thinking for Health Professionals (3 credits) · UGE 3730 Bioethics (3 credits) · UGE 3740 Understanding and Using Research (3 credits) 	12
Total Remaining University Credits		60

Special Notes, if any: *Receiving institution requires 4 credits of humanities coursework for graduation. A student who does not bring in at least 4 humanities credits in transfer will be required to complete those credits as part of the Health Professions Core.

SECTION D - Summary of Total Program Credits

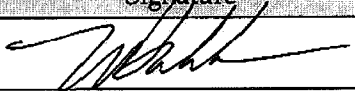


College (sending) Credits		University (receiving) Requirements	
Section A - General Education	32		
Section B - Major, Emphasis, Restricted Electives, Unrestricted Electives or Other	38		
Total Sending Institution Credits	70	Sections A & B - Total Sending Institution Credits Applied	60
		Section C - Remaining credit to be taken at the receiving institution	60
		Total Receiving Institution Program Credits	120

Special Notes, if any:

Students requiring advising for the program, can contact:

Audra Cooke, Advising Manager- University Partnership Center
Madison Area Technical College
AMCooke@madisoncollege.edu
608-246-6222

Kim Tamble, Executive Director- Partnership
Northwestern Health Sciences University
ktamble@nwhealth.edu
952-888-4777 ext. 274

	Name	Signature	Date
Vice Provost	Turina Bakken, PhD		2/17/16
Title	Name		
Dean	Denise Reimer		3/2/20
Title	Name		
University	Name	Signature	Date
President and Chief Executive Officer	Dr. Christopher Cassirer, Sc.D., M.P.H.		3-9-16
Title	Name		