MINNESOTA STATE COLLEGES AND UNIVERSITIES* TRANSFER AGREEMENT BETWEEN	North Hennepin Community College AND Metropolitan 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 between North Hennepin Community College, 7411 85th Ave N, Brooklyn Park, MN 55445 (hereinafter sending institution), and Metropolitan State University, 700 East Seventh Street, Saint Paul, MN 55106 (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 Associate of Science in Data Science (hereinafter sending program), and the receiving institution has established a Bachelor of Science in Data 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, 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 Transfer 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 Transfer Agreement is effective on 07/01/2019 and shall remain in effect until 07/01/2024 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 Transfer Agreement will be reviewed by both parties beginning 01/01/2024 (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.

June 10, 2019

PROGRAM TRANSFER TABLE

Check if the sending program _x__ or receiving program ____ is new.

	College (sending)	University (receiving)
Institution	North Hennepin Community College	Metropolitan State University
Program name	Data Science	Data Science
Award Type (e.g., AS)	AS	BS
Credit Length	60	120
CIP code (6-digit)	30.3001	30.3001
Describe program admission requirements (if any)		The following prerequisite courses or equivalents must be completed with a C- or better, • MATH 115 College Algebra (4 credits) • ICS 140 Programming Fundamentals (4 credits) • STAT 201 Statistics 1 (4 credits)

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.)

June 10, 2019

SECTION A - Minnesota Transfer Curriculum-General Education

College (sending)			University (receiving)			
course prefix, number and name	Goal(s)[1]	Credits	course prefix, number and name	Goal(s)[1]	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL 1200 Gateway College Writing –or- ENGL 1201 College Writing I	1	4	WRIT 131 Writing I	1	3	Equiv
ENGL 1201 College Writing II	1	2	WRIT 231 Writing II	1	2	Equiv.
COMM 1010 Fundamentals of Public Speaking	1	3	COMM 103 Public Speaking	1	3	Equiv
MATH 1150 College Algebra	4	3	MATH 115 College Algebra	4	4	Equiv
One course from Goal 3 (Sciences) with a lab	3	4	One course from Goal 3 (Sciences) with lab	3	4	
Courses from Goal 6-10	6-10	7	Courses from Goals 6-10 that satisfy GELS requirements	6-10	7	
One of the following: ECON1070 Principles of Microeconomics or ECON1060 Principles of Macroeconomics (Metro prefers ECON1070)	5 5,8	3 3	ECON 202 Microeconomics	5	3	Equiv.
MATH 1210 Applied Statistics	4	4	STAT 201 Statistics I	4	4	Equiv.
MnTC/General Education Total		30				

Special Notes, if any:

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				
DSCI 2001 Data Science I	4	Lower division elective	4	
DSCI 2002 Data Science II	4	DATA 211 Data Science and Visualization	4	Equiv
CSCI 1040 Fundamentals of SQL	3	Lower division elective	3	
CSCI 1130 Introduction to Programming	4	ICS 140 Programming Fundamentals	4	Equiv.
CSCI 2001 Object Oriented Programming	4	ICS 141 Programming with Objects	4	Equiv.
CSCI 2011 Programming in Python	1	Lower division elective	1	
CSCI 2030 Database Modeling and Design	4	ICS 311 Database Management Systems	4	Equiv.
Electives: CSCI1990 Computer Science Special Topics Math 2000 Discrete Mathematical Structures	6 (2) (4)	Lower division elective MATH 215 Discrete Mathematics	2 4	Equiv.
		College's unrestricted elective credits accepted in transfer (if none enter 0)	2	
Major, Emphasis, Unrestricted Electives Total	30	**Total College Credits Applied (sum of sections A and B)**	30	

[1] MnTC goal areas transfer to the receiving MnSCU college/university according to the goal areas designated by the sending college/university

June 10, 2019

SECTION C - Remaining University (receiving) Requirements	
course prefix, number and name	Credits
STAT 301 Analysis of Variance and Multivariate Analysis	4
DATA 401 Statistical Machine Learning	4
STAT 311 Regression Analysis	4
ICS 240 Introduction to Data Structures	4
ICS 352 Machine Learning	4
ICS 412 Computational Data Mining	4
MIS 380 Business Intelligence and Analytics	4
MIS 480 Predictive Analytics	4
Senior capstone	4
Upper division electives	4
General Education	10
Upper division liberal studies	8
University unrestricted elective credits not counted elsewhere (if none enter 0)	2
Total Remaining University Credits[2]	60

SECTION D - Summary of Total Program Credits			
College (sending) Credits		**University (receiving) Requirements**	
MnTC/General Education	30		
Major, Emphasis, Unrestricted Electives or Other	30		
Total College Credits	60	**Total College Credits Applied**	60
		Remaining credit to be taken at the university (receiving institution)	60
		Total Program Credits	120
Special Notes, if any:			

[2] 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	Jesse Mason, Ph.D.		11/25/19
Dean of Business, Technology and Workforce Development	Nerita Hughes		11/20/19
University	Name	Signature	Date
Chief Academic Officer	Amy Gort, PhD.		11/15/19
Faculty Contact Person Title	Wei Wei, Ph.D.		11/13/2019
DARS Encoder			
Date when equivalencies were verified/encoded in DARS by the receiving Minnesota State institution.			

June 10, 2019