

MINNESOTA STATE COLLEGES AND  
UNIVERSITIES\*  
TRANSFER AGREEMENT  
BETWEEN

Century 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 **Century College, 3300 Century Ave N, White Bear Lake, MN 55110** (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 Computer Information Systems** (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.

July 01, 2019

## PROGRAM TRANSFER TABLE

Check if the sending program \_\_\_ or receiving program \_\_\_ is new.

	College (sending)	University (receiving)
Institution	Century College	Metropolitan State University
Program name	Computer Information Systems	Computer Application Development
Award Type (e.g., AS)	AS	BAS
Credit Length	60	120
CIP code (6-digit)	11.0401	11.0701
Describe program admission requirements (if any)	<p>Assessment score placement in MATH 1061 or completion of MATH 0070 with a grade of "C" or higher;</p> <p>Course placement into college-level English and Reading OR completion of ENGL 0950 with a grade of C or higher OR completion of RDNG 0940 with a grade of C or higher and qualifying English Placement Exam OR completion of RDNG 0950 with a grade of C or higher and ENGL 0090 with a grade of C or higher OR completion of ESOL 0051 with a grade of C or higher and ESOL 0052 with a grade of C or higher.</p>	<p>The following prerequisite courses or equivalents must be completed with a C- or better,</p> <ul style="list-style-type: none"> <li>• MATH 115 College Algebra (4 credits)</li> <li>• ICS 140 Programming Fundamentals (4 credits)</li> <li>• STAT 201 Statistics 1 (4 credits)</li> </ul>

### 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
<b>Minnesota Transfer Curriculum-General Education</b>						
ENGL 1020 Composition I or ENGL 1021 Composition I	1	4	WRIT 131 Writing I	1	3	Equiv
COMM 1021 Fundamentals of Public Speaking	1	3	COMM 103 Public Speaking	1	3	Equiv
MATH 1061 College Algebra 1	4	4	MATH 115 College Algebra	4	4	Equiv
Choose one: <b>*Recommended: One course from Goal 3 (Sciences) with a lab or</b>			<b>One course from Goal 3 (Sciences) with lab</b>			
MATH 1025 Statistics or	3	4	STAT 201 Statistics I	3	4	Equiv
MATH 1062 College Algebra with Trig or		4	MATH 120 Precalculus		4	
MATH 1081 Single Variable Calculus I or		5	MATH 210 Calculus I		5	
MATH 1082 Single Variable Calculus II		5	MATH 211 Calculus II		5	
Two courses from Goal 5 (History/Social and Behavioral Sciences) <i>from 2 disciplines</i>	5	6	Two courses from Goal 5 (History/Social and Behavioral Sciences)	5	6	Equiv
Two courses from Goal 6 (Humanities and Fine Arts) <i>from 2 disciplines</i>	6	6	Two courses from Goal 6 (Humanities and Fine Arts)	6	6	Equiv
Additional 3 credits MnTC elective	7-10	3	Additional 3 credits that satisfies GEL requirements	7-10	3	
<b>MnTC/General Education Total</b>		<b>30</b>				

**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					
CSCI 1081 Programming Fundamentals			ICS 140 Programming Fundamentals		
+			+		
CSCI 1082 Object Oriented Programming	8		ICS 141 Programming with Objects	8	Equiv
CSCI 2014 Discrete Structures	4		MATH 215 Discrete Mathematics	4	Equiv
18 Restricted elective credits –					
<b>RECOMMENDED</b>					
• CSCI 2211 Data Science and Visualization (4)			DATA 211 Data Science and Visualization		
• CSCI 2082 Data Structures (3)			ICS 240 Introduction to Data Structures (4*)		
• CSCI 2050 Database Management Systems (4)		18	ICS 311 Database Management Systems	18	
• MATH 1025 Statistics (4)			STAT 201 Statistics I		
• Any CSCI course not listed above			Lower division elective		
• Any MATH course above 1061					
Unrestricted elective credits (if none enter 0)	0		College's unrestricted elective credits accepted in transfer (if none enter 0)	0	
<b>Major, Emphasis, Unrestricted Electives Total</b>	<b>30</b>		<b>Total College Credits Applied (sum of sections A and B)</b>	<b>30</b>	

**Special Notes, if any:** \*Course is 4 credits at receiving institution but 3 credits at sending. Three credits will transfer for the course.

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

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

	course prefix, number and name	Credits
	STAT 301 Analysis of Variance and Multivariate Analysis	4
	STAT 311 Regression Analysis	4
	DATA 401 Statistical Machine Learning	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	8
	General Education	10
	Upper division liberal studies	8
	*DATA 211 Data Science and Visualization	(4)
	*ICS 240 Introduction to Data Structures	(4)
	*ICS 311 Database Management Systems	(4)
	University unrestricted elective credits not counted elsewhere (if none enter 0)	2
	<b>Total Remaining University Credits<sup>2</sup></b>	<b>60</b>

**Special Notes, if any:**


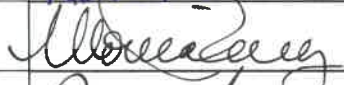

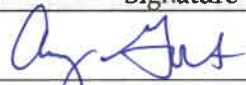
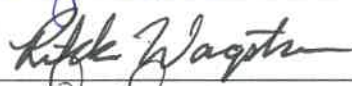

\*These courses are only required if not taken as part of recommended electives at sending institution.

### SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	30		
Major, Emphasis, Unrestricted Electives or Other	30		
<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, if any:**

<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
Faculty Contact Person	Robert Niemann, MS.		7/9/19
Academic Dean	Monica Ramirez		7/9/19
Chief Academic Officer	Jenni Swenson, PhD.		7/9/19
University	Name	Signature	Date
Chief Academic Officer	Amy Gort, PhD.		7/17/19
Faculty Contact Person	Rikki Wagstrom, Ph.D.		7/24/19
Title			
DARS Encoder	Amber Eisen Sanchez		8/14/19

Date when equivalencies were verified/encoded in DARS by the receiving Minnesota State institution.