

<b>MINNESOTA STATE COLLEGES AND UNIVERSITIES*</b> <b>ARTICULATION AGREEMENT BETWEEN</b>	<b>LAKE SUPERIOR COLLEGE AND THE COLLEGE OF ST. SCHOLASTICA</b>
<p>*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.</p>	

This Agreement is entered into between **Lake Superior College, 2101 Trinity Road, Duluth, MN 55811** (hereinafter sending institution), and **The College of St. Scholastica, 1200 Kenwood Avenue, Duluth, MN 55811**, (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 Applied Science (AAS) in Network Administration and Cybersecurity** (hereinafter sending program), and the receiving institution has established a **Bachelor of Arts (BA) in Computer Information Systems with a Cybersecurity Concentration** (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 72 credits from the sending program. A total of 58 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 06/01/2018 and shall remain in effect until the end date of 06/01/2023 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 12/01/2022 (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.

<b>PROGRAM ARTICULATION TABLE</b>		
	<b>College (sending)</b>	<b>University (receiving)</b>
<b>Institution</b>	Lake Superior College	The College of St. Scholastica
<b>Program name</b>	Network Administration and Cybersecurity	Computer Information Systems

Award Type (e.g., AS)	AAS	BA
Credit Length	72	128
CIP code (6-digit)	11.1001	11.0101
Describe program admission requirements (if any)		Cumulative GPA of at least a 2.0 for admission to the college.

### 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.

### 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 1106 College Composition I	1	3	General elective credit		3	
ENGL 1109 College Composition II	1	3	Fulfills ENG 1110 First Year Composition Foundations requirement		3	Sub
COMM 1100 Intro to Communication or COMM 1105 Interpersonal Communication	1	3	Fulfills COMM 1101 Interpersonal Communications Foundations requirement		3	Sub
Any of the following history classes: HIST 1110, HIST 1120, HIST 1130, HIST 1135, HIST 1210, HIST 1220, HIST 1230, HIST 2110, HIST 2115, HIST 2125, HIST 2130, HIST 2225	5	3	Fulfills History Veritas requirement – Conceptions course		3	
Any of the following fine arts classes (3 credits) ART 1110, ART 1111, ART 1112, ART 1113, ART 1118, ART 1120, ART 1122, ART 1124, ART 1125, ART 1138, ART 1162, ART 1165, ART 1168, ART 1170, ART 1500, ART 1510, ART 1520, ART 2100, HUM 1120, HUM 1123, HUM 2015, MUSC 1108, MUSC 1110, MUSC 1120, THTR 1100, THTR 1210, THTR 1211	6	3	Fulfills Fine Arts Veritas requirement – Conceptions course		3	
<b>MnTC/General Education Total</b>		15				

#### Special Notes, if any:

Students should select MnTC courses as noted above to meet some of the general education categories for the College of St. Scholastica's General Education program referred to as Veritas. The Veritas requirements for transfer students are noted below.

*Foundations courses:* First Year Composition, Interpersonal Communication, Math  
*Pathways areas (Conceptions or Integrations level courses):* Natural Science, History, Social Sciences, Literature, Fine Arts, Philosophy, Religious Studies (conceptions level course), and Open Pathway

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

The Veritas general education requirements include a mix of Conceptions courses (typically lower division 1000-2000 level) and Integrations courses (upper division 3000-4000 level). Integrations courses must be completed at the College of St. Scholastica and are intended to be writing intensive. Students may transfer in much of the coursework for Veritas, however, they must complete two Integrations courses (8 credits) at the College of St. Scholastica. The Computer Information Systems BA curriculum includes one Integrations course – MGT 3150 which fulfills the Open Pathway. Students will need to complete one additional 4 credit Integrations course at the College of St. Scholastica.

CIS 1001 Computer Science Principles taken for the major will fulfill a requirement for the major as well as the Veritas Math Foundations requirement. Most of the remaining Veritas General Education requirements can be met with approved transfer courses. General Education transfer information is available in the course notes area on the Transferology website at [www.transferology.com](http://www.transferology.com).

While the College of St. Scholastica does not require the completed Minnesota Transfer Curriculum (MnTC) for admission, St. Scholastica does accept the MnTC to fulfill the Veritas General Education requirements except for a conceptions level religious studies course and one St. Scholastica Integrations course. The religious studies requirement may be fulfilled by an approved transfer course. Integrations may be fulfilled by MGT 3150 in the Computer Information Systems BA curriculum. Students are encouraged to consult with a CSS advisor to discuss the best options for satisfying the St. Scholastica Veritas General Education requirements.

Please note that students admitted as first-year students must also complete the Dignitas requirement. Grades earned must be a C or better for transfer

### 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			
CIS 1402 Foundations of CIS	3	General elective credit	3
CIS 1500 Computer User Support	3	General elective credit	3
CIS 1521 A+ Operating Systems Technologies	3	General elective credit	3
CIS 1522 A+ Core Hardware	3	General elective credit	3
CIS 1745 Network Administration: UNIX	3	CIS 2777 Topics: CIS 1745 Network Administration: Unix (Cybersecurity Concentration course)	3
CIS 1810 Network Administration: Security	3	CIS 2777 Topics: CIS 1810 Network Administration: Security (Cybersecurity Concentration course)	3
CIS 1946 CISCO Networking I	3	CIS 2777 Topics: CIS 1946 CISCO Networking I (Cybersecurity Concentration course)	3
CIS 1947 CISCO Networking II	3	CIS 2777 Topics: CIS 1947 CISCO Networking II (Cybersecurity Concentration course)	3
CIS 1950 Network Administration: Windows Client	3	General elective credit	3
CIS 1952 Network Administration: Windows Server	3	General elective credit	3
CIS 2811 Intrusion Detection and Prevention Systems Fundamentals	3	CIS 3777 Topics: CIS 2811 Intrusion Detection and Prevention Systems Fundamentals (Cybersecurity Concentration course)	3
CIS 2812 Network Security Fundamentals	3	CIS 3777 Topics: CIS 2812 Network Security Fundamentals (Cybersecurity Concentration course)	3
CIS 2813 Network Forensics and Incident Response	3	CIS 3777 Topics: CIS 2813 Network Forensics and Incident Response (Cybersecurity Concentration course)	3
CIS 2814 Ethical Hacking and Systems Defense	3	CIS 3777 Topics: CIS 2814 Ethical Hacking and Systems Defense (Cybersecurity Concentration course)	3
CIS 2972 Network Administration: SQL Server	3	General elective credit	3
CIS 2976 Emerging Technologies in Information Systems	1	CIS 3777 Topics: CIS 2976 Emerging Technologies in Information Systems (Cybersecurity Concentration course)	1
CIS 2980 Internship	2	General elective credit	2

CIS 2987 CIS Capstone	3	General elective credit	3
Technical Electives - Choose 6 credits from the following: (Must include CIS 2560 or 2973 to fulfill concentration requirement for receiving program.) CIS 2560 Web Server Administration CIS 2973 Network Administration: Server Virtualization CIS 2974 Network Administration: Exchange Server CIS 2999 Special Topics in Computer Science (1-3 credits)	6	Students must complete CIS 2560 and/or CIS 2973. CIS 2560 and CIS 2973 will transfer as CIS 3777 Topics courses and can be applied toward the Cybersecurity Concentration requirements. The other technical elective courses will transfer as general electives.	6
<b>Major, Emphasis, Unrestricted Electives Total</b>	<b>57</b>	<b>Total College Credits Applied (sum of sections A and B)</b>	<b>72</b>

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

course prefix, number and name	Credits
CIS 1001 Computer Science Principles' - also fulfills Math Foundations requirement for Veritas General Education (Can also be met by transferring CIS 1415 from LSC)	4
CIS 2011 Computer Architectures	4
CIS 2085 Programming I with Java' (Can also be met by transferring CIS 2635 from LSC)	4
CIS 2087 Programming II with Java	4
CIS 3107 Database Modeling	4
CIS 3108 Systems Analysis and Design	4
CIS 4108 Project Management	2
CIS 4109 Capstone Project	4
CIS 4555 Systems Development Internship (4-16 cr)	4
MGT 3150 Management Communications (required for major; also fulfills one Veritas Open Integrations gen ed requirement)	4
Social Science*	4
Literature*	4
Natural Science*	4
Philosophy*	4
Religious Studies	4
University unrestricted elective credits not counted elsewhere	0
<b>Total Remaining University Credits<sup>2</sup></b>	<b>58</b>

#### Special Notes, if any:

The CIS 1001 and CIS 2085 requirements can be met with score of 4 or 5 on the AP exams noted below.  
Computer Science Principles Advanced Placement (AP) exam will fulfill CIS 1001 Computer Science Principles (must have score of 4 or 5)  
Computer Science A AP exam will fulfill CIS 2085 Programming I with Java (must have score of 4 or 5)

\*The College of St. Scholastica accepts the Minnesota Transfer Curriculum (MnTC) as satisfying the Veritas general education requirements except for the religious studies requirement and one Veritas Integrations course. The religious studies requirement can be met with an approved transfer course.

#### B.S. Degree Requirements:

- Minimum 128 semester credits earned
- Minimum 42 upper division credits (at or above the 3000 level)
- Last 32 credits taken at The College of St. Scholastica, 16 credits in the major
- Complete the requirements for general education and your major
- Meet all GPA requirements for the major
- Maximum number of PED credits that can count toward graduation is 8


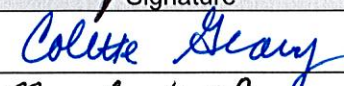
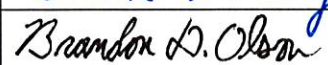
### SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	15		
Major, Emphasis, Unrestricted Electives or Other	57		
<b>Total College Credits</b>	<b>72</b>	<b>Total College Credits Applied</b>	<b>72</b>
		<b>Remaining credit to be taken at the university (receiving institution)</b>	<b>58</b>

	<b>Total Program Credits</b>	130
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**Special Notes, if any:**

<sup>2</sup> At least 42 of the required credits for the baccalaureate degree shall be at the upper-division level.

College	Name	Signature	Date
Chief Academic Officer	MIKE SEYMOUR		8/17/18
University	Name	Signature	Date
President	Dr. Colette Geary		8/7/18
Academic Dean	Dr. Brandon Olson		8/7/18
DARS Encoder			
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			