

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

**SAINT PAUL COLLEGE
AND
THE COLLEGE OF ST. SCHOLASTICA**

*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 **Saint Paul College, 235 Marshall Avenue, Saint Paul, MN 55102**, (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 in Computer Programming with Web Development Emphasis** (hereinafter sending program), and the receiving institution has established a **Bachelor of Science in Computer Information Systems with Web Development 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 60 credits from the sending program. A total of 68 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 10/01/2015 and shall remain in effect until the end date of 09/01/2016 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 05/01/2016 (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	Saint Paul College	The College of St. Scholastica
Program name	Computer Programming with Web Development Emphasis	Computer Information Systems with Web Development Concentration
Award Type (e.g., AS)	AAS	BS
Credit Length	60 semester credits	128 semester credits
CIP code (6-digit)	11.0201	110101
Describe program admission requirements (if any)	Reading: Score of 78+ or grade of "C" or better in READ 0722 and ENGL 0922 Writing: Score of 78+ or grade of "C" or better in ENGL 0922 Arithmetic: Score of 20+	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.

(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) ¹	Credits	course prefix, number and name	Goal(s) ¹	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL 1711 Composition I	1	4	First Year Composition		4	Sub
SPCH 1720 Interpersonal Communication or SPCH 1710 Fundamentals of Public Speaking	1	3	Fulfills part of the Human Communication requirement. Students need both Public Speaking and Interpersonal Communications		3	Sub
Goal 3 or Goal 4 – Complete a Goal 3 course that has been approved to meet Natural Sciences at receiving institution. Consult with an advisor for recommendations.	3	3	Natural Sciences General Education requirement		3	Sub
Goal 5: Complete a HIST course of 3 or more credits. Consult with an advisor for recommendations.	5	3	History General Education requirement		3	Sub

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

Goal 6: Complete PHIL 1760 World Religions	6,8	3	Religious Studies General Education requirement	3	Sub
MnTC/General Education Total		16			

Special Notes, if any:

The College of St. Scholastica accepts the Associate in Arts or Minnesota Transfer Curriculum (MnTC) as meeting the lower division general education requirements except for a Religious Studies course and an upper division Writing Intensive course.

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 1410 Computer Science & Information Systems	4	CIS 1004 Computing Concepts (2 cr) & CIS 1007 Introduction to Databases (2 cr)	4	Sub	
CSCI 1423 Computer Networking – Client	4	Upper Division CIS Elective (restricted elective)	4	Sub	
CSCI 1450 Web Fundamentals/HTML	4	Unrestricted elective	4		
CSCI 1523 Intro to Computing & Programming Concepts	4	Unrestricted elective	4		
CSCI 1524 Intro to Algorithms & Data Structures	4	CIS 3089 Data Structures & Algorithm Analysis	4	Sub	
CSCI 2570 Machine Architecture & Organization	4	Upper Division CIS Elective (restricted elective)	4	Sub	
CSCI Technical elective (restricted elective) Complete CSCI 1541 Java Programming 1 (required for major at receiving institution)	4	CIS 2085 Programming I with Java	4	Sub	
CSCI 2440 Client Side Programming I	4	Custom Concentration course: CIS 3034 Client-Side Web Development	4	Sub	
CSCI 2442 Server Side Programming	4	Custom Concentration course: CIS 4034 Server-Side Web Development	4	Sub	
Select 2 courses CSCI 2466 J2EE-JSP and Servlets CSCI 2621 Ruby on Rails CSCI 2622 Client Side Programming 2	8	Custom Concentration courses	8	Sub	
Unrestricted elective credits (if none enter 0)	0	College's unrestricted elective credits accepted in transfer (if none enter 0)			
Major, Emphasis, Unrestricted Electives Total	44	Total College Credits Applied (sum of sections A and B)	60		

SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	CIS 2011 Hardware/Software Systems	4
	CIS 2087 Programming II with Java	4
	CIS 3107 Database Modeling	4
	CIS 3108 Systems Analysis and Design	4
	CIS 4109 Systems Development Implementation	4
	CIS 4555 Software Develop. Internship (4-16 cr)	4
	PSY 3331 Statistics or PHL 1105 Logic	4
	Upper division CIS elective	4
	Custom Concentration Course	4
	*CTA 1100 or 1101(students need both Interpersonal Communication and Public Speaking)	2
	*Cultural Diversity (can take another general ed course that fulfills both requirements)	(4)
	*Social Science	4
	*3World Language	8
	*Literature	4
	*Philosophy	4
	*Fine Arts	4
	Writing Intensive (Upper division)	4
	University unrestricted elective credits not counted elsewhere (if none enter 0)	2
	Total Remaining University Credits²	68

Special Notes, if any:

The College of St. Scholastica accepts the Minnesota Transfer Curriculum (MnTC) as satisfying the College's lower division general education requirements except for the religious studies requirement. Students who transfer in the completed MnTC will not be required to complete the courses noted with an asterisk () in section C.

List of sending institution courses that fulfill each of the general education requirements at receiving institution can be found online at <http://resources.css.edu/admissions/docs/transfer/transfer-guides/Saint-Paul-College-Gen-Ed.pdf>

³World Language can be waived by 3 years of a language in high school, placement test, or fluency in a language other than English.

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	16		
Major, Emphasis, Unrestricted Electives or Other	44		
Total College Credits	60	Total College Credits Applied	60
		Remaining credit to be taken at the university (receiving institution)	68
		Total Program Credits	128

Special Notes, if any:

² At least 42 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 42 required credits of upper division.

College	Name	Signature	Date
Chief Academic Officer	Kelly Murtough	Kelly Murtough	11/29/16
Title			
University	Name	Signature	Date
President	Dr. Larry Goodwin	L Goodwin	11/24/15
VP, Academic Affairs	Dr. Beth Domholdt	B Domholdt	11/19/2015
DARS Encoder			

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

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The sending institution has established an **Associate of Applied Science in Computer Programming with Java Program Emphasis** (hereinafter sending program), and the receiving institution has established a **Bachelor of Science in Computer Information Systems with a Software Engineering 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 60 credits from the sending program. A total of 70 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

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PROGRAM ARTICULATION TABLE

	College (sending)	University (receiving)
Institution	Saint Paul College	The College of St. Scholastica
Program name	Computer Programming with Java Program Emphasis	Computer Information Systems with Software Engineering Concentration
Award Type (e.g., AS)	AAS	BS
Credit Length	60 semester credits	128 semester credits
CIP code (6-digit)	11.0201	11.0101
Describe program admission requirements (if any)	Reading: Score of 78+ or grade of "C" or better in READ 0722 and ENGL 0922 Writing: Score of 78+ or grade of "C" or better in ENGL 0922 Arithmetic: Score of 20+	Cumulative GPA of at least a 2.0 for admission to the college.

Instructions

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- (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) ¹	Credits	course prefix, number and name	Goal(s) ¹	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL 1711 Composition I	1	4	First Year Composition		4	Sub
SPCH 1720 Interpersonal Communication or SPCH 1710 Fundamentals of Public Speaking	1	3	Fulfills part of the Human Communication requirement. Students need both Public Speaking and Interpersonal Communications		3	Sub
Goal 3 or Goal 4 – Complete a Goal 3 course that has been approved to meet Natural Sciences at receiving institution. Consult with an advisor for recommendations.	3	3	Natural Sciences General Education requirement		3	Sub
Goal 5: Complete a HIST course of 3 or more credits. Consult with an advisor for recommendations.	5	3	History General Education requirement		3	Sub

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

Goal 6: Complete PHIL 1760 World Religions	6,8	3	Religious Studies		3	Sub
MnTC/General Education Total			16			

Special Notes, if any:

The College of St. Scholastica accepts the Associate in Arts or Minnesota Transfer Curriculum (MnTC) as meeting the lower division general education requirements except for a Religious Studies course and an upper division Writing Intensive course.

SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other

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Major, Emphasis, Restricted, Unrestricted Electives or Other Courses				
CSCI 1410 Computer Science & Information Systems	4	CIS 1004 Computing Concepts (2 cr) & CIS 1007 Introduction to Databases (2 cr)	4	Sub
CSCI 1423 Computer Networking – Client	4	Upper Division CIS Elective (restricted)	4	
CSCI 1450 Web Fundamentals/HTML	4	Unrestricted elective	4	
CSCI 1523 Intro to Computing & Programming Concepts	4	Unrestricted elective	4	
CSCI 1524 Intro to Algorithms & Data Structures	4	CIS 3089 Data Structures & Algorithm Analysis	4	Sub
CSCI 2570 Machine Architecture & Organization	4	Upper Division CIS Elective (restricted)	4	
CSCI 1541 Java Programming 1	4	CIS 2085 Programming I with Java	4	Sub
CSCI 1542 Java Programming 2	4	CIS 2087 Programming II with Java	4	Sub
CSCI 1550 Database Management Fundamentals	4	Unrestricted elective	4	
CSCI 2466 J2EE-JSP and Servlets	4	Custom Concentration course	4	
CSCI Technical elective (restricted elective) Choose one of the following: CSCI 1531 Objective-C Programming OR CSCI 2442 Server Side Programming	4	Custom Concentration course:	4	Sub
Unrestricted elective credits (if none enter 0)		College's unrestricted elective credits accepted in transfer (if none enter 0)		
Major, Emphasis, Unrestricted Electives Total	44	Total College Credits Applied (sum of sections A and B)	60	

SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	CIS 2011 Hardware/Software Systems	4
	CIS 3107 Database Modeling	4
	CIS 3108 Systems Analysis and Design	4
	CIS 4109 Systems Development Implementation	4
	CIS 4555 Software Develop. Internship (4-16 cr)	4
	PSY 3331 Statistics or PHL 1105 Logic	4
	Upper division CIS elective	4
	Custom Concentration course	4
	Custom Concentration course	4
	Custom Concentration course	4
	*CTA 1100 or 1101(students need both Interpersonal Communication and Public Speaking)	2
	*Cultural Diversity (can take another general ed course that fulfills both requirements)	(4)
	*Social Science	4
	* ³ World Language	8
	*Literature	4
	*Philosophy	4
	*Fine Arts	4
	Writing Intensive (Upper division)	4
	University unrestricted elective credits not counted elsewhere (if none enter 0)	
	Total Remaining University Credits²	70

Special Notes, if any:

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List of sending institution courses that fulfill each of the general education requirements at receiving institution can be found online at <http://resources.css.edu/admissions/docs/transfer/transfer-guides/Saint-Paul-College-Gen-Ed.pdf>

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SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	16		
Major, Emphasis, Unrestricted Electives or Other	44		
Total College Credits	60	Total College Credits Applied	60
		Remaining credit to be taken at the university (receiving institution)	70
		Total Program Credits	130
Special Notes, if any:			

² At least 42 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 42 required credits of upper division.

College	Name	Signature	Date
Chief Academic Officer	Kelly Murtaugh	Kelly Murtaugh	11/29/2016
Title			
University	Name	Signature	Date
President	Dr. Larry Goodwin	L. Goodwin	11/24/15
VP, Academic Affairs	Dr. Beth Domholdt	B. Domholdt	11/19/2015
DARS Encoder			
Date when equivalencies were verified/encoded in DARS by the receiving MnSCU institution.			

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Admission and Graduation Requirements

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PROGRAM ARTICULATION TABLE

	College (sending)	University (receiving)
Institution	Saint Paul College	The College of St. Scholastica
Program name	Computer Programming with Mobile Development Emphasis	Computer Information Systems with Custom Concentration
Award Type (e.g., AS)	AAS	BS
Credit Length	60 semester credits	128 semester credits
CIP code (6-digit)	11.0201	11.0101
Describe program admission requirements (if any)	<p>Reading: Score of 78+ or grade of "C" or better in READ 0722 and ENGL 0922</p> <p>Writing: Score of 78+ or grade of "C" or better in ENGL 0922</p> <p>Arithmetic: Score of 20+</p>	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.
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(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) ¹	Credits	course prefix, number and name	Goal(s) ¹	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
ENGL 1711 Composition I	1	4	First Year Composition		4	Sub
SPCH 1720 Interpersonal Communication or SPCH 1710 Fundamentals of Public Speaking	1	3	Fulfills part of the Human Communication requirement. Students need both Public Speaking and Interpersonal Communications		3	Sub
Goal 3 or Goal 4 – Complete a Goal 3 course that has been approved to meet Natural Sciences at receiving institution. Consult with an advisor for recommendations.	3	3	Natural Sciences General Education requirement		3	Sub
Goal 5: Complete a HIST course of 3 or more credits. Consult with an advisor for recommendations.	5	3	History General Education requirement		3	Sub
Goal 6: Complete PHIL 1760 World Religions	6	3	Religious Studies General Education requirement		3	Sub
MnTC/General Education Total		16				

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

Special Notes, if any:

The College of St. Scholastica accepts the Associate in Arts or Minnesota Transfer Curriculum (MnTC) as meeting the lower division general education requirements except for a Religious Studies course and an upper division Writing Intensive course.

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Major, Emphasis, Restricted, Unrestricted Electives or Other Courses				
CSCI 1410 Computer Science & Information Systems	4	CIS 1004 Computing Concepts (2 cr) & CIS 1007 Introduction to Databases (2 cr)	4	Sub
CSCI 1423 Computer Networking – Client	4	Upper Division CIS Elective (restricted elective)	4	Sub
CSCI 1450 Web Fundamentals/HTML	4	Unrestricted elective	4	
CSCI 1523 Intro to Computing & Programming Concepts	4	Unrestricted elective	4	
CSCI 1524 Intro to Algorithms & Data Structures	4	CIS 3089 Data Structures & Algorithm Analysis	4	Sub
CSCI 2570 Machine Architecture & Organization	4	Upper Division CIS Elective (restricted elective)	4	Sub
CSCI 1541 Java Programming 1	4	CIS 2085 Programming I with Java	4	Sub
CSCI 1531 Objective C-Programming I	4	Custom Concentration Elective	4	Sub
CSCI 2628 Programming iOS Devices	4	Custom Concentration Elective	4	Sub
CSCI 2629 Programming Android Devices	4	Custom Concentration Elective	4	Sub
CSCI Technical elective: (restricted elective) Must choose a course from the following to fulfill concentration course requirement at receiving institution: CSCI 2440, CSCI 2442, CSCI 2560	4	Custom Concentration Elective	4	Sub
Major, Emphasis, Unrestricted Electives Total	44	Total College Credits Applied (sum of sections A and B)	60	

SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	CIS 2011 Hardware/Software Systems	4
	CIS 2087 Programming II with Java	4
	CIS 3107 Database Modeling	4
	CIS 3108 Systems Analysis and Design	4
	CIS 4109 Systems Development Implementation	4
	CIS 4555 Software Develop. Internship (4-16 cr)	4
	PSY 3331 Statistics or PHL 1105 Logic	4
	Custom Concentration Elective	4
	Upper division CIS elective	4
	*CTA 1100 or 1101(students need both Interpersonal Communication and Public Speaking)	2
	*Cultural Diversity (can take another general ed course that fulfills both requirements)	(4)
	*Social Science	4
	*1World Language	8
	*Literature	4
	*Fine Arts	4
	*Philosophy – CIS 1205 Technology Ethics recommended	4
	Writing Intensive (Upper division)	4
	University unrestricted elective credits not counted elsewhere (if none enter 0)	2
	Total Remaining University Credits²	68

SECTION D - Summary of Total Program Credits

College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	16		
Major, Emphasis, Unrestricted Electives or Other	44		
Total College Credits	60	Total College Credits Applied	60

	Remaining credit to be taken at the university (receiving institution)	68
	Total Program Credits	128

Special Notes, if any:

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