COMPUTER SCIENCE TRANSFER PATHWAY AS

Purpose: The Computer Science Transfer Pathway AS offers students a powerful option: the opportunity to complete an Associate of Science degree with course credits that directly transfer to designated Computer Science bachelor's degree programs at Minnesota State universities. The curriculum has been specifically designed so that students completing this pathway degree and transferring to a Minnesota State system university will enter with junior-year status with all courses applying to the designated bachelor's degree programs.

Award
Computer Science Transfer Pathway A.S. Degree.................................... 60 credits
Total Computer Science curriculum .... 29 - 30 credits
MnTC curriculum/General Education... 30 - 31 credits

Program course sequence begins in the Fall.
General Education courses may be taken in any semester. Contact your Advisor.

RECOMMENDED FULL-TIME COURSE SEQUENCE

Not all courses are scheduled every semester. See course schedule: https://eservices.minnstate.edu/registration/search/basic.html?campusid=306.

Semester 1		Semester 2	
COMP 1140 Introduction to Database and SQL	3 cr	COMP 2243 Programming and Problem Solving	4 cr
COMP 1150 Computer Science Concepts	3 cr	MATH 1127 Calculus I	5 cr
ENGL 1117 Reading and Writing Critically I	4 cr	COMM 1114 Fundamentals of Public Speaking	3 cr
MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**	6 cr	ENGL 1118 Reading & Writing Critically II	4 cr
Total Credits	**16**	**Total Credits**	**16**

Semester 3		Semester 4	
COMP 2247 Algorithms and Data Structures	4 cr	COMP 2275 Computer Architecture	4 cr
MATH 2218 Discrete Mathematics	4 cr	(Offered Spring Semester Only)	
COMP 1731 Programming for the Internet	3 cr	MATH 2350 Introduction to Mathematical Statistics	4 cr
Or	or	(Recommended – Offered Spring Semester Only)	
COMP 1741 JavaScript	3 cr	Or	or
Or	or	MATH 1128 Calculus II	5 cr
COMP 1751 Mobil App. Development	3 cr		
MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**	3 cr	MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**	4 cr
		If the student takes MATH 2350, select 4-credits	or
		of MnTC Goal Area Courses	5 cr
		or	
		If the student takes MATH 1128, select 5-credits	
		of MnTC Goal Area Courses	
			12-14
Total Credits	**14**	**Total Credits**	

**Credits need to be completed from four of the goal areas (3, 5, 6, 7, 8, 9, or 10). Students should choose the goal areas depending on the transfer university destination. Students should consult with their advisor before selecting courses for satisfying the goal areas.

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RECOMMENDED PART-TIME COURSE SEQUENCE

Not all courses are scheduled every semester. See course schedule: https://eservices.minnstate.edu/registration/search/basic.html?campusid=306.

Semester 1		Semester 2	
COMP 1140 Introduction to Database and SQL	3 cr	COMP 1150 Computer Science Concepts	3 cr
ENGL 1117 Reading and Writing Critically I	4 cr	MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**	6 cr
Total Credits	**7**	**Total Credits**	**9**

Semester 3		Semester 4	
COMP 2243 Programming and Problem Solving	4 cr	MATH 1127 Calculus I	5 cr
ENGL 1118 Reading & Writing Critically II	8 cr	COMM 1114 Fundamentals of Public Speaking	3 cr
Total Credits	**8**	**Total Credits**	**8**

Semester 5		Semester 6	
COMP 2247 Algorithms and Data Structures	4 cr	MATH 2350 Introduction to Mathematical Statistics (Recommended – Offered Spring Semester Only)	4 cr
MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**	3 cr	**Or**	or
		MATH 1128 Calculus II	5 cr
		COMP 1731 Programming for the Internet	3 cr
		Or	or
		COMP 1741 JavaScript	3 cr
		Or	or
		COMP 1751 Mobil App. Development	3 cr
Total Credits	**7**	**Total Credits**	**7 -8**

Semester 7		Semester 8	
MATH 2218 Discrete Mathematics	4 cr	COMP 2275 Computer Architecture (Offered Spring Semester Only)	4 cr
MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**	4 cr	MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**	3 cr
If the student takes MATH 2350, select 4-credits of MnTC Goal Area Courses	or		
or	5 cr		
If the student takes MATH 1128, select 5-credits of MnTC Goal Area Courses			
Total Credits	**8-9**	**Total Credits**	**7**

**Credits need to be completed from four of the goal areas (3, 5, 6, 7, 8, 9, or 10). Students should choose the goal areas depending on the transfer university destination. Students should consult with their advisor before selecting courses for satisfying the goal areas.

Course descriptions can be found at: https://www.rctc.edu/academics/courses/course-descriptions.

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RCTC empowers students to thrive in an ever-changing, diverse society by providing access to exceptional education.