

## 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.**

<b>RECOMMENDED FULL-TIME COURSE SEQUENCE</b>			
<i>Not all courses are scheduled every semester. See course schedule: <a href="https://eservices.minnstate.edu/registration/search/basic.html?campusid=306">https://eservices.minnstate.edu/registration/search/basic.html?campusid=306</a>.</i>			
<b>Semester 1</b> 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  <div style="text-align: right;"><b>Total Credits    16</b></div>	<b>Semester 2</b> COMP 2243 Programming and Problem Solving    4 cr MATH 1127 Calculus I                                    5 cr COMM 1114 Fundamentals of Public Speaking       3 cr ENGL 1118 Reading & Writing Critically II        4 cr  <div style="text-align: right;"><b>Total Credits    16</b></div>		
<b>Semester 3</b> COMP 2247 Algorithms and Data Structures       4 cr MATH 2218 Discrete Mathematics                   4 cr COMP 1731 Programming for the Internet          3 cr Or COMP 1741 JavaScript                                 3 cr Or COMP 1751 Mobil App. Development               3 cr MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**   3 cr  <div style="text-align: right;"><b>Total Credits    14</b></div>	<b>Semester 4</b> COMP 2275 Computer Architecture                4 cr (Offered Spring Semester Only) MATH 2350 Introduction to Mathematical Statistics 4 cr (Recommended – Offered Spring Semester Only) Or MATH 1128 Calculus II                                 5 cr  MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives**   4 cr If the student takes MATH 2350, select 4-credits of MnTC Goal Area Courses or If the student takes MATH 1128, select 5-credits of MnTC Goal Area Courses  <div style="text-align: right;"><b>Total Credits    12-14</b></div>		
**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.			
<i>Continued on reverse side of page...</i>			

*\*This program can be started any semester with slight modifications. This plan assumes a Fall start.*

<b>RECOMMENDED PART-TIME COURSE SEQUENCE</b>			
Not all courses are scheduled every semester. See course schedule: <a href="https://eservices.minnstate.edu/registration/search/basic.html?campusid=306">https://eservices.minnstate.edu/registration/search/basic.html?campusid=306</a> .			
<b>Semester 1</b> COMP 1140 Introduction to Database and SQL 3 cr ENGL 1117 Reading and Writing Critically I 4 cr <b>Total Credits 7</b>	<b>Semester 2</b> COMP 1150 Computer Science Concepts 3 cr MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives** 6 cr <b>Total Credits 9</b>		
<b>Semester 3</b> COMP 2243 Programming and Problem Solving 4 cr ENGL 1118 Reading & Writing Critically II 8 cr <b>Total Credits 8</b>	<b>Semester 4</b> MATH 1127 Calculus I 5 cr COMM 1114 Fundamentals of Public Speaking 3 cr <b>Total Credits 8</b>		
<b>Semester 5</b> COMP 2247 Algorithms and Data Structures 4 cr MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives** 3 cr <b>Total Credits 7</b>	<b>Semester 6</b> MATH 2350 Introduction to Mathematical Statistics (Recommended – Offered Spring Semester Only) 4 cr <b>Or</b> MATH 1128 Calculus II 5 cr COMP 1731 Programming for the Internet 3 cr <b>Or</b> COMP 1741 JavaScript 3 cr <b>Or</b> COMP 1751 Mobil App. Development 3 cr <b>Total Credits 7-8</b>		
<b>Semester 7</b> MATH 2218 Discrete Mathematics 4 cr MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives** 4 cr If the student takes MATH 2350, select 4-credits of MnTC Goal Area Courses <b>or</b> If the student takes MATH 1128, select 5-credits of MnTC Goal Area Courses <b>Total Credits 8-9</b>	<b>Semester 8</b> COMP 2275 Computer Architecture (Offered Spring Semester Only) 4 cr MnTC (Goal 3, 5, 6, 7, 8, 9, or 10) electives** 3 cr <b>Total Credits 7</b>		
**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.			