

**Associate of Science in Information Technology at CCV**  
**to a**  
**Bachelor of Science in Data Science at NVU**  
*Available on the Johnson and Lyndon Campuses*

This transfer pathway will help you plan courses at the Community College of Vermont (CCV) that will meet major specific requirements at Northern Vermont University (NVU). Transfer students from CCV who have obtained an Associate of Arts or an Associate of Science degree will have the NVU general education program requirements waived. Transfer courses from regionally accredited institutions will be accepted if grades are C- or better. *This transfer pathway is based on the 2021-2022 catalog year.*

Associate of Science in Information Technology at CCV	Bachelor of Science in Data Science at NVU
General Education—First Semester Seminar INT 1050 Dimensions of Self & Society	Elective/NVU general education requirement waived for CCV graduate
General Education—Technological Literacy Choose CIS 1100 Introduction to Computer Science	CIS 1090 Problem Solving with Computers
General Education—Communication Any eligible course in this category	Elective/NVU general education requirement waived for CCV graduate
General Education—English Composition ENG 1061 English Composition	ENG 1081 Writing and Reading Strategies for College
General Education—Mathematics Choose MAT 2021 Statistic I	MAT 2021 Statistics I
General Education—Research & Writing Intensive Choose ENG 2135 Technical Writing & Research	Elective/NVU general education requirement waived for CCV graduate
General Education—Scientific Method Choose a 4 credit lab science course	Elective/NVU general education requirement waived for CCV graduate
General Education—Human Expression Any eligible course in this category	Elective/NVU general education requirement waived for CCV graduate
General Education—Human Behavior Any eligible course in this category	Elective/NVU general education requirement waived for CCV graduate
General Education—Global Perspectives & Sustainability Any eligible course in this category	Elective/NVU general education requirement waived for CCV graduate
General Education—Seminar in Educational Inquiry HUM 2010 Seminar in Education Inquiry	Elective/NVU general education requirement waived for CCV graduate
CIS 1350 Desktop Operating Systems	Elective
CIS 2120 Concepts of Local Area Networks	Elective
CIS 2230 System Administration	Elective
CIS 2245 Concepts of Computer Security	Elective
<b>Networking Focus</b>	
CIS 2150 - Introduction to Linux	CIS 2101 Introduction to Unix
CIS 2235 - Advanced System Administration	CIS 2850 System Administration Essentials
<b>Programming Focus</b>	
CIS 2261 - Introduction to Java I	CIS 2271 Java Programming
CIS 2262 - Introduction to Java II	
<b>or</b>	

CIS 2031 - C/C++ Programming I	Elective
CIS 2032 - C/C++ Programming II	Elective
<b>Website Development Focus</b>	
CIS 1151 - Website Development	CIS 2141 Programming Internet and Web Applications Part I
CIS 1152 - Advanced Web Development	Elective
Electives: 6-7 Credits <i>Please see course equivalencies and course substitutions on the following pages for recommended electives.</i>	Work closely with your CCV advisor and your NVU Admissions Counselor when planning and choosing your CCV electives to ensure optimum transferability.
<b>Total CCV Credits: 60</b>	

<b>Additional Courses to be taken at Northern Vermont University</b>
BUS 1210 - Business Software and Spreadsheets <i>(may be substituted with CIS 1430 at CCV)</i>
CIS 2271 - Java Programming <i>(may be substituted with CIS 2261 <u>and</u> CIS 2262 at CCV)</i>
CIS 3025 - Advanced Object-Oriented Programming
CIS 3050 - Data Structures and Algorithms
CIS 2330 - Database Systems <i>(may be substituted with CIS 2340 at CCV)</i>
CIS 3430- Data Science I
CIS 3440 - Data Science II
MAT 1095 - Visual Display of Quantitative Information
MAT 1531 - Calculus I <i>(may be taken at CCV)</i>
MAT 3135 - Statistical Computing in R
MAT 3210 - Linear Algebra
MAT 4930 - Senior Project in Mathematics and Computer Science
Electives (Choose 6–8 credits from the following courses): <ul style="list-style-type: none"> <li>— BUS 2010 - Project Management <i>(may be taken at CCV)</i></li> <li>— ACC 2121 - Financial Accounting <i>(may be taken at CCV)</i></li> <li>— BUS 2230 - Principles of Marketing <i>(may be taken at CCV)</i></li> <li>— BUS 4030 - Market Research</li> <li>— CRJ 3085 - Research Design and Analysis, ANT 3120 - Science, Research Methods &amp; Ethics, or POS 3025 - Research Design &amp; Analysis</li> <li>— MAT 2532 - Calculus 2 <i>(may be taken at CCV)</i></li> <li>— MAT 3240 - Probability Theory with Statistics</li> </ul>
<b>Estimated number of additional credits at NVU: 60</b>