

**Associate of Science in Information Technology at CCV**  
**to a**  
**Bachelor of Science in Computer Information Systems at NVU**  
*Available on the Lyndon Campus*

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.*

| <b>Associate of Science in Information Technology at CCV</b>                                   | <b>Bachelor of Science in Computer Information Systems at NVU</b>  |
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| General Education—First Semester Seminar<br>INT 1050 Dimensions of Self & Society              | Elective/NVU general education requirement waived for CCV graduate |
| General Education—Technological Literacy<br>Choose CIS 1100 Introduction to Computer Science   | CIS 1090 Problem Solving with Computers                            |
| General Education—Communication<br>Choose CIS 2360 Computer User Support                       | CIS 2370 Help Desk Support   |
| General Education—English Composition<br>ENG 1061 English Composition                          | ENG 1081 Writing and Reading Strategies for College                |
| General Education—Mathematics<br>Choose MAT 2021 Statistic I                                   | MAT 2021 Statistics I  |
| General Education—Research & Writing Intensive<br>Choose ENG 2135 Technical Writing & Research | Elective/NVU general education requirement waived for CCV graduate |
| General Education—Scientific Method<br>Choose a 4 credit lab science course                    | Elective/NVU general education requirement waived for CCV graduate |
| General Education—Human Expression<br>Any eligible course in this category                     | Elective/NVU general education requirement waived for CCV graduate |
| General Education—Human Behavior<br>Any eligible course in this category                       | Elective/NVU general education requirement waived for CCV graduate |
| General Education—Global Perspectives & Sustainability<br>Any eligible course in this category | Elective/NVU general education requirement waived for CCV graduate |
| General Education—Seminar in Educational Inquiry<br>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<br><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>                                       |
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| CIS 1050 Computer Operation Systems and Spreadsheets <i>(may be substituted with CIS 1430 at CCV)</i>      |
| CIS 1060 Introduction to Databases <i>(may be substituted with CIS 1360 at CCV)</i>                        |
| CIS 2112 Computer Hardware & Organization <i>(may be substituted with CIS 1350 and CIS 2110 at CCV)</i>    |
| CIS 2141 Programming Internet and Web Applications Part I <i>(may be substituted with CIS 1151 at CCV)</i> |
| CIS 2271 Java Programming <i>(may be substituted with CIS 2261 and CIS 2262 at CCV)</i>                    |
| CIS 2330 Database Systems <i>(may be substituted with CIS 2340 at CCV)</i>                                 |
| CIS 3025 Advanced Object Oriented Programming  |
| CIS 3110 Networking  |
| CIS 3120 Programming Internet and Web Applications Part II   |
| CIS 3240 Computer Security   |
| CIS 4120 Systems Analysis and Design   |
| CIS 4810 Internship in Computer Science  |
| MAT 2210 Sets, Logic, and Proof  |
| CIS 4950 CIS Capstone  |
| <b>Software Engineering Concentration</b>  |
| CIS 3050 Algorithms and Data Structures  |
| BUS 2015 Fundamentals of Management in Business <i>(may be substituted with BUS 2020 at CCV)</i>           |
| CIS 4520 Advanced Software Technologies  |

**Electives** (*Choose at least 3 credits from the following*)

- CIS 2060 - Programming with FORTRAN
- CIS 2101 - Introduction to Unix (*may be substituted with CIS 2150 at CCV*)
- CIS 2142 - Advanced Visual Basic
- CIS 2279 - Introduction to Perl Programming
- CIS 2290 - Introduction to Python (*may be substituted with CIS 2210 at CCV*)

**Information Technology Concentration**

CIS 2101 Introduction to Unix (*may be substituted with CIS 2150 at CCV*)

CIS 2850 System Administration Essentials (*may be substituted with CIS 2235 at CCV*)

CIS 3750 Cloud Computing

CIS 4330 Advanced Networking

CIS 4350 Advanced Computer Security

**Estimated number of additional credits at NVU: 60**