## Cluster: Information Technology

### Pathway: Programming and Software Development

### Nebraska Sample Personal Learning Plan

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<tr>
<th>School Counseling</th>
<th>Education Levels</th>
<th>Grade</th>
<th>English/Language Arts</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies</th>
<th>Nebraska Career Education Program of Study</th>
<th>Related Requirements</th>
<th>Extended Learning School/Community Activities</th>
</tr>
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</table>
| MIDDLE SCHOOL     |                  | 7     | English 7             | Math 7 | Science 7 | Social Studies 7 | NCE C4C Curriculum for Careers Keyboarding Applications Computer Applications | World Languages & Cultures Physical Education Health Education Exploration of Entrepreneurship | School Activities:  
► Develop web pages  
► FBLA  
► Prepare school multimedia/video projects  
► SkillsUSA  
► Student Technology Aide |
|                   |                  | 8     | English 8             | Math 8 | Science 8 | Social Studies 8 |                                           |                      | Community Activities:  
► Create a community web site or promotional video  
► Volunteer in the community  
► Help individuals use a computer  
► Set up computers and install software  
► Job shadow professionals  
► Join professional organizations in this career cluster  
► Part-time employment available within this career cluster  
► Internships available within this career cluster |
| SECONDARY         |                  | 9     | English/Language Arts I | Algebra I | Physical Science | Geography | Information Technology Applications I  
                      |                  |       |                      |          |          | |                                           |                      | |
|                   |                  | 10    | English/Language Arts II | Geometry | Biology | World History | Information Technology Applications II  
Programming I |                                           |                      | |
|                   |                  | 11    | English/Language Arts III | Algebra II | Chemistry | American History | Information Technology Applications III  
Programming II  
Programming III  
Database Design & Development Web Design & Development |                                           |                      | |
|                   |                  | 12    | English/Language Arts IV  
Tech. Reading | Intro to Statistics  
Descrete/Finite Math  
Pre-Cal | Physics | American Govt. or Economics | Information Technology Fundamentals  
Network Systems | | |

### POSTSECONDARY

A sample of postsecondary courses that may be offered or required is provided as a guide. Required courses vary by postsecondary institution. As Nebraska develops stronger statewide connections between secondary and postsecondary, the options will be updated.

| POSTSECONDARY | Year | English Composition  
English Literature | Calculus | Chemistry | American Govt. Psychology | Introduction to Software Design  
Program & Software Development | Testing & Quality Assurance  
Maintenance & Support of Programming & Software Development | Continue Courses in the Area of Specialization | Complete Programming & Software Development Major (4-Year Degree Program) |
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<tbody>
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<td>Year 13</td>
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| Year 14       |      | Speech/Oral Communication  
Technical Writing | Computer Applications | Biological Science  
Physics | American History  
Geography |                                 | | | |
| Year 15       |      | Continue courses in the area of specialization | Continue Courses in the Area of Specialization | | | | | | |
| Year 16       |      | Continue courses in the area of specialization | Complete Programming & Software Development Major (4-Year Degree Program) | | | | | | |

This sample Personal Learning Plan is designed for continued use throughout the lifetime of the individual using it.