

## Computer Science & Cybersecurity Sample Integration Plan

The following is an exemplar CSCS Integration Plan developed by a North Dakota School District.

### Computer Science and Cybersecurity Integration Plan for K-12

<b>K-5 – Awareness</b>	<b>6-8 – Exploration</b>	<b>9-12 Preparation</b>
<p><b>Course Integration</b> <b>2023-24</b> <i>Instructors will recommend cybersecurity integration opportunities</i></p> <p><b>2024-25</b> <i>Cybersecurity integration opportunities will be implemented</i></p> <p><b>2025-26</b></p> <ul style="list-style-type: none"> <li>• <i>NEW STANDARDS</i></li> <li>• <i>Cybersecurity integration opportunities will be implemented</i></li> <li>• <i>K-5 Alignment in Separate Plan</i></li> <li>• <i>Identifies Concept, Skill, and Standard for each grade level.</i></li> </ul>	<p><b>Courses Offered</b></p> <p><i>Stem 6</i></p> <p><i>Stem 7/8 A</i></p> <p><i>Stem 7/8 B</i></p> <p><b>2023-24</b> <i>Instructors will identify cybersecurity integration opportunities in STEM courses</i></p> <p><b>2024-25</b> <i>Cybersecurity integration opportunities will be implemented</i></p> <p><b>2025-26</b></p> <ul style="list-style-type: none"> <li>• <i>NEW STANDARDS</i></li> <li>• <i>Cybersecurity integration opportunities will be implemented</i></li> <li>• <i>STEM Alignment in Separate Plan for 3 courses</i></li> <li>• <i>Identifies focus questions for standards integrated</i></li> </ul>	<p><b>Courses Offered</b></p> <p><i>CRACTC online courses</i></p> <p><i>Web Design course</i></p> <p><b>2023-24</b> <i>Instructor will develop a unit for cybersecurity education that will be added to the Financial Literacy course</i></p> <p><b>2024-25</b> Unit for Cybersecurity Education will be added to Financial Literacy course (graduation requirement)</p> <p><b>2025-26</b></p> <ul style="list-style-type: none"> <li>• <i>NEW STANDARDS</i></li> <li>• <i>Cybersecurity integration opportunities will be implemented</i></li> <li>• <i>Detailed Unit Plan for Financial Literacy in Separate Document</i></li> <li>• <i>(course required for all students)</i></li> </ul>
<p><b>Additional Integration Opportunities</b></p> <ul style="list-style-type: none"> <li>-Safe Environment Training</li> <li>-ELA topics</li> <li>-counselor presentations</li> <li>-SRO presentations</li> <li>-Library/media presentations</li> </ul>	<p><b>Additional Integration Opportunities</b></p> <ul style="list-style-type: none"> <li>-Safe Environment Training</li> <li>-ELA topics</li> <li>-counselor presentations</li> <li>-SRO presentations</li> <li>-career exploration course</li> <li>-personal finance course</li> <li>-Robotics</li> </ul>	<p><b>Additional Integration Opportunities</b></p> <ul style="list-style-type: none"> <li>-Safe Environment Training</li> <li>-ELA topics</li> <li>-counselor presentations</li> <li>-SRO presentations</li> <li>-career management course</li> <li>-financial literacy course</li> <li>-Robotics</li> </ul>

**Grades K-5:** Using the NDDPI standards as the foundation, a standards document was created with added columns for date completed and notes. During district-level PLCs, grade-level teams reviewed which standards have been implemented, discussed progress, and shared instructional ideas. Each grade level submits its completed document to the building principal at the end of the school year. The following year, the same document serves as a working reference and is updated on an ongoing basis to reflect instructional adjustments and new approaches.

**Grades 6-8:** A similar standards document was developed for grades 6–8, with initial emphasis on the three STEM courses, while recognizing that CSC standards may not align solely within those classes. Grade-level teams review alignment throughout the year to evaluate implementation and identify opportunities across subjects. This document will guide curriculum work for the upcoming year and will be revised as improved strategies or new integration opportunities emerge. One resource that has been particularly valuable in this process is *Social Media Test Drive*.

**Grades 9-12:** At the high school level, a dedicated unit aligned to the CSC standards has been integrated into the Financial Literacy course, which all students are required to take. This unit has been updated to reflect the revised standards for the upcoming year. Additionally, students have access to a range of CSC-aligned courses offered both onsite and online, providing expanded options for those interested in pursuing deeper learning in computer science or cybersecurity.