North Carolina CTE

CS21 -Computer Science 2 - (2026)

Understand advanced creative development. CS21.1	1.01	**Understand the development process. U3-L3; U3-L9** CS21.1.01
	1.02	**Implement collaborative tools and processes. U3-L3; U3-L9; U10-L1; U3-L8; U3-L9; U10-L1; U7-L8; U7-L10** CS21.1.02
	1.03	**Analyze code segments for purpose and debugging. U3-L6; U5-L17; U3-L7** CS21.1.03
Understand advanced data. CS21.2	2.01	**Understand data compression algorithms. U1-L9; U1-L10** CS21.2.01
	2.02	**Utilize data visualization tools to communicate knowledge. U5-L9; U9-L1; U9-L2; U9-L3** CS21.2.02
	2.03	**Extract information from data. U9-L1; U9-L1; U9-L3; U9-L5; U9-L6** CS21.2.03
	2.04	**Utilize models and simulations. U9-L1; U9-L3; U9-L4;U5-L6; U5-L10** CS21.2.04
Understand advanced algorithms and programming. CS21.3	3.01	**Understand advanced data structures. U4-L1; U5-L1; U5-L2; U5-L3** CS21.3.01
	3.02	**Write programs using iterative algorithms. U5-L5; U5-L7** CS21.3.02
	3.03	**Utilize iteration to traverse indexed data structures. U5-L1; U5-L3; U5-L1; U5-L3; U5-L9; U5-L11; U6-L2; U7-L3** CS21.3.03
	3.04	**Develop procedures. U6-L1; U6-L1; U6-L1; U7-L6; U3-L6; U4-L3** CS21.3.04
	3.05	**Evaluate the efficiency of algorithms. U6-L2; U6-L2; U6-L3; U6-L4; U6-L4** CS21.3.05
	3.06	**Develop procedural abstractions. U7-L1; U7-L2; U7-L6; U7-L3; U7-L5; U7-L6** CS21.3.06
Understand advanced computing systems and networks. CS21.4	4.01	**Understand advanced computing systems and communication protocols. U2-L6** CS21.4.01
	4.02	**Evaluate the reliability and efficiency of computing systems. U6-L5; U6-L5** CS21.4.02

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Understand advanced impacts of computing. CS21.5

5.01 **Identify sources of bias and discrimination in computing systems. U2-L7; U2-L8; U9-L6** CS21.5.01

5.02 **Evaluate computing systems for economic and cultural impacts. U9-L5** CS21.5.02

5.03 **Understand the role of computational innovation on globalization. U9-L5** CS21.5.03