Whitehall-Coplay School District Syllabus

Course Title: AP/Honors Computer Science Principles Grade: 10, 11, 12

DESCRIPTION OF COURSE: The course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. The AP Program designed AP Computer Science Principles with the goal of creating leaders in computer science fields and attracting and engaging those who are traditionally underrepresented with essential computing tools and multidisciplinary opportunities.

REQUIRED TOPICS OF STUDY	SUGGESTED INSTRUCTIONAL TIME	STANDARDS/ ELIGIBLE CONTENT CSTA K-12 Computer Science Standards (2017)
CSP Unit 1 - Digital Information	14 lessons - 7 days (3 weeks)	Unit 1 Standards: https://curriculum.code.org/csp-20/unit1/standards/
CSP Unit 2 - The Internet	9 lessons - 4 days (2 weeks)	Unit 2 Standards: https://curriculum.code.org/csp-20/unit2/standards/
CSP Unit 3 - Intro to App Design	11 lessons - 6 days (2 weeks + assessment day)	Unit 3 Standards: https://curriculum.code.org/csp-20/unit3/standards/
CSP Unit 4 - Variables, Conditionals, and Functions	15 lessons - 7 days (3 weeks)	Unit 4 Standards: https://curriculum.code.org/csp-20/unit4/standards/
Unit 5 - Lists, Loops, and Traversals	18 lessons - 9 days (4 weeks)	Unit 5 Standards: https://curriculum.code.org/csp-20/unit5/standards/
Unit 6 - Algorithms	6 lessons - 3 days (1 week + assessment day)	Unit 6 Standards: https://curriculum.code.org/csp-20/unit6/standards/
Unit 7 - Parameters, Return, and Libraries	11 lessons - 6 days (3 weeks)	Unit 7 Standards: https://curriculum.code.org/csp-20/unit7/standards/
Unit 8 - Create PT Prep	18 lessons - 9 days (3 weeks)	Unit 8 Standards: https://curriculum.code.org/csp-20/unit8/standards/
Unit 9 - Data	9 lessons - 5 days (2 weeks)	Unit 9 Standards: https://curriculum.code.org/csp-20/unit9/standards/
Unit 10 - Cybersecurity and Global Impacts	14 lessons - 7 days (3 weeks)	Unit 10 Standards: https://curriculum.code.org/csp-20/unit10/standard/

RESOURCES: Curriculum, resources, and materials by code.org; Supplemental codehs.com; Chromebooks; AP Test Information: https://apcentral.collegeboard.org/courses/ap-computer-science-principles/exam

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