Unit 3: Website Maintenance

Content Area: **Computer Science**
Course(s):
Time Period: **Marking Period 1**
Length: **50- 60 days**
Status: **Published**

Brief Summary of Unit

The core of this course revolves around maintaining the district's website. This includes each of the district's schools and central office. Each building has a staff webmaster that our student interns will work with in order to develop, maintain, and organize the materials presented to the public on the website. This involves developing plans for the site, working with the CMS, and communicating with the webmaster team members. Each day after the briefing for the events of the day, emails are read and replied to or forwarded, calendars are reviewed, the site is spot checked and then the larger projects are attended to. The site is updated on a regular basis by many members of the team, both by students in this internship class and staff webmasters and administrators.

CS.9-12.8.1.12.AP.7	Collaboratively design and develop programs and artifacts for broad audiences by incorporating feedback from users.
CS.9-12.8.1.12.CS.1	Describe ways in which integrated systems hide underlying implementation details to simplify user experiences.
CS.9-12.8.1.12.CS.4	Develop guidelines that convey systematic troubleshooting strategies that others can use to identify and fix errors.
CS.9-12.8.1.12.DA.6	Create and refine computational models to better represent the relationships among different elements of data collected from a phenomenon or process.
CS.9-12.8.2.12.ED.5	Evaluate the effectiveness of a product or system based on factors that are related to its requirements, specifications, and constraints (e.g., safety, reliability, economic considerations, quality control, environmental concerns, manufacturability, maintenance and repair, ergonomics).
CAEP.9.2.12.C.3	Identify transferable career skills and design alternate career plans.
TECH.8.1.12.A.3	Collaborate in online courses, learning communities, social networks or virtual worlds to discuss a resolution to a problem or issue.
TECH.8.1.12.A.CS2	Select and use applications effectively and productively.
TECH.8.1.12.B.CS1	Apply existing knowledge to generate new ideas, products, or processes.
TECH.8.1.12.B.CS2	Create original works as a means of personal or group expression.
TECH.8.1.12.C.CS1	Interact, collaborate, and publish with peers, experts, or others by employing a variety of digital environments and media.
TECH.8.1.12.C.CS4	Contribute to project teams to produce original works or solve problems.
TECH.8.1.12.E.CS3	Evaluate and select information sources and digital tools based on the appropriateness for specific tasks.
	Successful troubleshooting of complex problems involves multiple approaches including research, analysis, reflection, interaction with peers, and drawing on past experiences.

Essential Questions / Enduring Understandings

Essential Questions

- How is working within a team dynamic more effective than working individually on a website?
- How does a team keep a website current?

Enduring Understanding

- Websites take a lot of time, energy and effort to keep current, relevant and accurate.
- Time management is an important skill when you have to work with a group of people.

Objectives

Students Will Know:

- all of the content on the section of the site they are involved with.
- what their role is in developing new content and maintaining current content.
- what is expected of them in their role as student interns.

Students Will be Skilled At:

- managing the flow of new information through the website.
- keeping up with deadlines.

Learning Plan

- Daily Briefings including review of previous days accomplishments, discussion of new emails and tasks, and overarching goals for the site.
- Student interns work in class, and attend meetings outside of class, in order to obtain information or work with staff on the site.
- Detailed goals and objectives should be clear to all parties involved.
- Major updates are reviewed by the teacher.

Assessment

Assessments

- Formative: Daily assessments using examples from class notes and CodeHS.com, AP

Classroom/Albert Checks for Understanding

- Summative: Teacher-created assessments/projects and CodeHS Computer Science Projects, AP Classroom/Albert Unit Assessments

- Benchmark: Check for understanding benchmark assessments on CodeHS, AP Classroom/Albert/Khan Academy Diagnostics

- Alternative Assessments: Student-centered activities such as a doorbell coding project, game design projects, and other activities involving real world applications

District Website

Materials

Core instructional materials: Core Book List

Supplemental materials: CodeHS

CMS used by the district site