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.

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Information Literacy: This unit challenges students to locate, evaluate, and use information effectively. Information literacy includes, but is not limited to, digital, visual, media, textual, and technological literacy. Lessons may include the research process and how information is created and produced; critical thinking and using information resources; research methods, including the difference between primary and secondary sources; the difference between facts, points of view, and opinions, accessing peer-reviewed print and digital library resources; the economic, legal, social, and ethical issues surrounding the use of information.

P.1	Act as a responsible and contributing community members and employee.
1.2.12prof.Cr1	Generating and conceptualizing ideas.
L.SS.11–12.1	Demonstrate command of the system and structure of the English language when writing or speaking.
8.1.12.CS.1	Describe ways in which integrated systems hide underlying implementation details to simplify user experiences.
P.4	Demonstrate creativity and innovation.
P.5	Utilize critical thinking to make sense of problems and persevere in solving them.
	Successful troubleshooting of complex problems involves multiple approaches including research, analysis, reflection, interaction with peers, and drawing on past experiences.
P.8	Use technology to enhance productivity increase collaboration and communicate effectively.
8.1.12.CS.4	Develop guidelines that convey systematic troubleshooting strategies that others can use to identify and fix errors.
P.9	Work productively in teams while using cultural/global competence.
1.2.12prof.Cr3	Refining and completing products.

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.
8.1.12.AP.7	Collaboratively design and develop programs and artifacts for broad audiences by incorporating feedback from users.
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).
W.SE.11–12.6	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation (MLA or APA Style Manuals).

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