Unit 1: Content Management Systems

Content Area: **Computer Science**
Course(s):
Time Period: **Marking Period 1**
Length: **10-15 days**
Status: **Published**

Brief Summary of Unit

Seniors in this Web Design Internship are responsible for assisting with the building, updating and maintaining of the district's website. The site is held in a Content Management System (CMS) that relies on WYSIWYG (What You See Is What You Get) editors to adjust content. Students in this internship will spend the first few weeks becoming familiar with creating content, updating content and communicating with the other webmasters within the district about the CMS. Students will develop plans for updating and communicating with staff members through email and in person meetings. The community will also receive any updates through their viewing of the website.

Revision Date: July 2026

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.
	The usability, dependability, security, and accessibility of devices within integrated systems are important considerations in their design as they evolve.
1.2.12prof.Cr1	Generating and conceptualizing ideas.
P.4	Demonstrate creativity and innovation.
1.2.12prof.Cr1b	Organize and design artistic ideas for media arts productions.
P.8	Use technology to enhance productivity increase collaboration and communicate effectively.
P.9	Work productively in teams while using cultural/global competence.
8.1.12.AP.1	Design algorithms to solve computational problems using a combination of original and existing algorithms.
8.1.12.AP.7	Collaboratively design and develop programs and artifacts for broad audiences by incorporating feedback from users.
W.IW.11–12.2	Write informative/explanatory texts (including the narration of historical events, scientific procedures/experiments, or technical processes) to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content.
1.2.12prof.Cn10b	Explain and demonstrate the use of media artworks to expand meaning and knowledge,

	and create cultural experiences such as learning and sharing through online environments.
SL.II.11–12.2	Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.
SL.UM.11–12.5	Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.

Essential Questions / Enduring Understandings

Essential Questions

- What are the best practices for updating information on the district's website?
- How do you create new content for the website?

Enduring Understanding

- CMS are set up so people without HTML and CSS backgrounds can build a quality website. They are also useful when many people are assisting in developing the content.

Objectives

Students Will Know:

- How to navigate and utilize the CMS to update and create content.

Students Will be Skilled At:

- Communicating with teachers, administrators and colleagues to request and obtain information.
- Time management as they develop plans for acquiring this information according to deadlines.

Learning Plan

- Share CMS library of help videos/documents along with the training video from the CMS organization.
- Create logins for each student to track their updates on the CMS.
- Develop division of labor for internship members to spread out each school's work.
- Develop outline of plan for updating each site for the first week of school. Faculty Lists, New Year Paperwork, Calendars and Welcome messages are some of the important tasks that need to be updated for each school.
- Complete updates for the first week of school as information is available (last Board of Ed meeting of August will have the most up to date info on faculty).

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

Setting up the district's website for the first week of school.

Calendars and checklists for information that needs to be compiled.

Emails to/from staff.

Materials

Core instructional materials: Core Book List

Supplemental materials: CodeHS

CMS link with videos and help documents.

Video from Cranford Training for CMS.