CSCI 107 - Introduction to Web Programming Fall 2025

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Textbook: There are no required books for this course.
Course Web Page: www.cknuckles.com/csci107
All reference materials and required readings will be posted on the course Web page. The course Web page also lists homework, quiz, and final exam information/dates.
Bookmark this page and check it regularly.

Official Course Description:
A broad introduction to World Wide Web programming and related technologies. Topics include Internet history and its architecture, managing an account on a Web server, HTML markup, use of style sheets (CSS), page layout design, introduction to interactive programming with JavaScript and the document object model (DOM). This is a general audience course suitable for those with no prior programming experience.

Course Learning Objectives:
Students learn fundamentals of the Internet and World Wide Web, HTML for content and structure, CSS for presentation, and JavaScript for interactive effects. Students learn to manage an account on a live Web server as part of a semester-long project that gradually increases in complexity as topics are covered.

Course Expectations:
This course meets 2 times per week for 80 minutes, for a total of 160 minutes per week. The course carries 1.0 LFC course credit (equivalent to four semester credit hours). Students are expected to devote a minimum of 12 hours of total work per week (in-class time plus out-of-class work) to this course.

Course Requirements and Grading Policy:
Individual project -- 25% of your grade: Homework will be assigned for most class meetings. All homework will be posted online as you gradually build a structured Web site.
Exams -- 75% of your grade: There will be three in-class written exams, each covering roughly 1/3 of the course material. The 1st exam covers the Internet History/Overview and the HTML lessons. The 2nd exam covers the CSS lessons. The 3rd exam covers the JavaScript lessons.
Final Exam: The final is simply the 3rd exam mentioned just above, which covers only the JavaScript lessons. The college pre-determines all final exam times based upon course timeslots to ensure that finals for different courses do not overlap. You can find the final exam time at the top of the course Web page (listed above) or in my.lakeforest at Home -> Course Schedules.

Electronics Policy:
Electronic equipment including Laptop Computers is discouraged during class. This is not a laboratory style class. Class time is best used to present concepts and facilitate discussion. Students are expected to complete the homework assignments outside of class.

Attendance Policy:
Students are encouraged to attend all course meetings. Late homework is assessed heavy penalties, if credited at all. Unless pre-arranged for a very compelling reason, a missed quiz or exam will require documentation (e.g. medical) excusing the absence.

Academic Honesty Policy:
This course observes the College's policy on Academic Dishonesty and Plagiarism as stated in the student and faculty handbooks.

General Academic Protocols and Policies:
This college maintains a general academic Protocols and Policy document at the following location.
https://moodle.lakeforest.edu/mod/resource/view.php?id=532514

Course Software:
The course is platform independent, meaning students can complete their work on any computer platform (Mac, Windows, Linux etc.). Moreover, students can complete their work on their own personal computer or in one of the computer labs on campus. The only software required is free: Web Browser, Code Editor, and FTP client. Software such as Adobe Dreamweaver or Microsoft Web Designer (known as wysiwyg editors) is not permitted in this course.

Course Topics Include:
Internet History/Overview
World Wide Web History/Overview
Web Server Accounts and FTP
HTML Fundamentals – Inline/Block Elements, HTML Attributes, Semantic Elements
Graphics in Web Pages
Linking and Site Structure - Absolute/Relative/Fragment URLs
Structured Elements – Lists/Tables
Hexadecimal Colors / Font Families

CSS Introduction - Properties, Selectors, Style Classes
CSS Cascade – Inline/Internal/External Style Sheets
CSS Styling Blocks - Box Model Overview
CSS Styling Links and Nav Lists
CSS Background Images
Page Layout – Design Strategies, Columns

JavaScript Introduction – Variables, Conditionals, Loops, Functions
JavaScript Events and Event Handlers
JavaScript Objects - Intro to Browser Objects, Document Object Model
Introduction to DHTML – Changing Style Properties with JavaScript