

# CSE102 - Web Design and Programming

## Review

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## Announcements

- ▶ Final Exam on Wednesday, June 17 at 3:15 - 5:45 pm
  
- ▶ Final Exam:
  - ▶ Mainly focused on hands-on programming
  - ▶ Combination of text response, HTML-CSS-JavaScript-PHP programming problems with few multiple-choice questions
  - ▶ Rough overview
    - ▶ 2-3 questions on introduction to web
    - ▶ 1-2 questions on pure HTML programming
    - ▶ 1-2 questions on CSS design
    - ▶ 1-2 questions on JavaScript and form processing
    - ▶ 1-2 questions on JavaScript regular expressions
    - ▶ 1-2 questions on JavaScript programming
    - ▶ 2-3 questions on PHP programming
  - ▶ Open book / open notes - same as midterm exams
  - ▶ Video camera must be on to receive credit

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## Our Major Topics: From Topic 1 - Introduction to Web

- ▶ Introduction to programmable devices and computers
- ▶ Moore's law
- ▶ Modern computer architecture
- ▶ Information explosion in 21<sup>st</sup> century
- ▶ 3-tier application architecture
- ▶ Networking layers - ISO OSI Model
- ▶ IP addresses, DNS and networking fundamentals
- ▶ URL schemes and components
- ▶ Overview of HTTP

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## Our Major Topics: From Topic 2 -Web and Mobile Usability

- ▶ The web itself keep improving
- ▶ Introduction to usability and user experience
- ▶ How do we really use the web?
- ▶ Design for scanning, not for reading
- ▶ Take advantage of conventions
- ▶ Create effective visual hierarchies
- ▶ Omit needless words
- ▶ Primary, secondary, tertiary ... navigations
- ▶ The trunk test for good web navigation
- ▶ Basics of mobile web designing

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## Our Major Topics: From Topic 3 -HTML

- ▶ Evolution of HTML5
- ▶ HTML5 page structure
- ▶ HTML5 elements - inline vs block elements
- ▶ HTML5 tags and attributes
- ▶ HTML5 colors
- ▶ Page layouts
- ▶ Tables
- ▶ Forms

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## Our Major Topics: From Topic 4 - CSS

- ▶ Inline vs Internal vs External styles
- ▶ CSS selectors and declarations
- ▶ Cascade priority
- ▶ Measurement units
- ▶ CSS fonts
- ▶ Colors, gradients
- ▶ Borders, margins
- ▶ CSS layouts - flex layouts vs grid layouts

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## Our Major Topics: From Topic 5 - JavaScript

- ▶ JavaScript and DOM
- ▶ Variables
- ▶ Data types
- ▶ Comparison operators
- ▶ Conditionals
- ▶ Loops
- ▶ Functions
- ▶ Regular expressions
- ▶ Form handling

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## Our Major Topics: From Topic 6 - PHP

- ▶ Introduction to PHP
- ▶ Variables
- ▶ Data types
- ▶ Comparison operators
- ▶ Conditionals
- ▶ Loops
- ▶ Functions
- ▶ Form data handling

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## More Topics & Course Project

- ▶ Responsive web design
- ▶ Introduction to WYSIWIG editors
- ▶ A course project that integrates our learnings
- ▶ Teamwork
- ▶ Winning spirit
- ▶ <http://seohlim.epizy.com/Assignment3/>
- ▶ [http://minjunkimcse102webdesign.epizy.com/CSE102\\_Assignmcnt\\_3/](http://minjunkimcse102webdesign.epizy.com/CSE102_Assignmcnt_3/)
- ▶ <http://yeoeun.epizy.com/Assignment3>
- ▶ <http://kl-gang.epizy.com>
- ▶ <http://TeamB-JaekwonJung.epizy.com/>

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## What you have learned. . .

- ▶ Yes, we've done all that!!!
  - ▶ You learned a lot about web designing and programming in this course
- ▶ We used various tools and techniques
- ▶ If you are majoring in CS, this is be a good starting point and you will be ready for the next step:
  - ▶ Backend design
  - ▶ Database development
  - ▶ Ajax, json, react-js and much more
- ▶ If you are not a CS major, this is still a good exposure to CS and programming
- ▶ These skills can be helpful for many different jobs
  - ▶ UX Engineer, Web developer, programmer

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## Finally . . .

- ▶ I had lots of fun teaching the course!
- ▶ I hope you had fun, too.
- ▶ I know this course was a lot of work and very difficult for many of you
  - ▶ However, this is only the beginning of studying web designing and it takes a lot of effort
  - ▶ It can be particularly difficult at the start, and it is very impressive for you all to have made it this far!
- ▶ Good luck with your finals and have a great break!
  - ▶ Hope to see you next semester on campus

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## Fill in the final course survey (~10 mins)

- ▶ <https://stonybrook.campuslabs.com/eval-home/cei/cse/102/90end>

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Questions?

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