

## CSMC 10100-1 Midterm Review Topics: A suggestive list of starting points for study. W. Sterner

- **XHTML**

- **Markup Elements**

- Formatting elements
    - Links and Image elements
    - Tables and Frames
    - Block elements

- **CSS**

- Syntax for inline, embedded, and external stylesheets
    - Properties and Values modifying selectors
    - Floating and Positioning
    - Box Model
    - Classes and Pseudo-Classes

- **Perl**

- **The Perl Language**

- **Components of a Programming Language**

- Data Structures:

- Data Types

- literals

- entities

- numbers

- integers**

- reals**

- strings

- "" is a null string**

- alphanumeric characters**

- Scalar Variables \$

- Arrays or Lists @ -- a positionally ordered list of scalar values.

- Hashes (associative arrays) % -- a key-string / value pair ordered list of scalar data.

- Files

- Control Structures:

- Conditional Statements: if / elsif / else

- Loops: for / foreach / while / until

- Operators:

- Arithmetic

- String

- Logical

- Functions:

- Built-in

- Libraries

- Subroutines -- Programmer-defined

- Expressions, Statements, Modules, and Programs:

- Expressions = any series of variables, operators, and functions that are evaluated and result in a single value.

- simple

- compound

- Statements -- complete unit of execution. Terminate by a semicolon.

- simple

- compound (blocks). Enclosed by curly braces, { }. Do not require a semicolon.

- Syntactic Conventions:

- Comments denoted by a # sign.

- Quotation marks:

- Single (scare) Quotes = String is printed literally -- without interpretation of any expressions.

- Double Quotes = Interprets expressions and escaped characters, while printing standard characters.

- Reserved Words

- All terms of the language given explicit definitions within Perl.

- **Discussion of how and what to study**

I sympathize with the problems of mastering the amount of material we've covered. It might help to stop for a minute to think about your resources and study tasks.

The midterm is to test your knowledge of what we have covered in Pence chapters 1 through 10, and Lash chapters 1, 2,3,5 and 6 up to hash variables. And whatever additional material we have covered in class or via handout. Any relatively obvious question on any of that material is fair. That sort of expectation is pretty much standard for any course that has textbooks. The point being that one is to know more than can appear on any test; the test will select a subset of what might be asked.

The online list of review topics above selects out key areas of interest and even gives some specific points to be aware of that might come in handy for the midterm. As such it gives a list of items that one could reasonably ask oneself questions about: "Do I know what CSS styles and stylesheets are, and how they work?", or "How does a `while` loop work differently from an `until` loop in Perl?", or "What are the most often used XHTML markup elements that we've encountered, and what do they do?", or "How do single and double quotes work in Perl?", etc. If you were to pose a goodly number of such questions for yourself based on the Review Topics and then answer them with technical precision, that would be solid preparation. You could also check out the reviews at the end of the Pence and Lash chapters as ways to learn the material. Also, the online Perl Reference library is very targeted to specific features of the Perl language.

The intent of the review list is only to provide some focus for your exam preparation without specifying in detail what will actually be on the exam. Being able to answer questions such as above, or apply that knowledge to markup and programming tasks, are what you need to know. There is nothing on the exam outside that range.

The overall format of the midterm is that it is split between XHTML / CSS and Perl. In the markup part there will be problems of doing markup, defining elements, and understanding presentational styles. In the programming part there will be multiple pieces of code or programs that you will have to "mentally" execute, and one extra credit program to write.

Hope that helps cut into the total mass of stuff.

W. Sterner