**YOU CAN BRING A 3X5   
'CRIB CARD' TO THE EXAM!!!**

FOR THE 2019 WINTER QUARTER: Please ignore the Lecture numbers.   
The topic titles should be sufficient to locate the corresponding course material on the course web page.

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| You're responsible for everything that's been covered, anywhere, at any time, in the class. |

Go back and make sure that you’re now able to answer all the quizzes 100% correctly!

* Material from Assignment #1, Assignment #2, and Assignment #3
* Anything from the midterm exam (the exam is cumulative)
  + This specifically includes ‘problem questions’ from the midterm
  + This includes material listed in the midterm study guide (and/or the lectures prior to the midterm) even though that material didn’t have questions about them on the midterm exam.
* Lecture 13 – logical ops
  + AND, OR, NOT
  + Semi-English exercises
  + Writing out code
    - AND binds tighter than OR
  + Range checking
    - Input is between 60 and 100 (say)
    - Input is OUTSIDE of 1-100 (say)
* Lecture 14 - Functions, Part 1
  + Syntax for defining and calling functions that are named or anonymous
  + Local vs. Global variables
    - Slides about what values do w, x, y, z have at various points in the program?
  + Parameters & Return values
  + Number() as another way of doing parseFloat()
* Lecture 15: Functions, Part 2: Collect, Call, Receive
  + Make sure that you can answer questions about this (like that quiz!)
* Lecture 16: Functions, Part 3: Decomposing Blobs of Code Into Functions
  + Pros & cons (there was that picture of the whiteboard)
  + Given a program, divide it up into single-purpose functions
* Lecture 17: Loops
  + Prompt command
  + Accumulating the answer in a loop
    - Be sure that you’re able to fill in one of those trace tables
    - += vs. =
      * An eeeeeeeeeevil question would ‘accidentally’ use = instead of +=, just to see if you were paying attention ☺
    - Be able to accumulate results that are displayed line-by-line (i.e,. each line has a <br/> at the end.
      * Know how <br/> and \n differ
    - Be able to accumulate list items and embed the result into an OL/UL
  + While loops, for loops
    - The syntax should be review
    - Make sure that you know which one is the best choice to use
  + Break, continue
    - This might work well in a ‘what does this program do?’ sort of question
* Lecture 18: Arrays, Part 1
  + Creating a new array
    - Empty vs. pre-filled with some values
    - Constructor syntax ( [ ] ) vs. “new Array()”
  + Accessing array elements
    - ‘myArray[0] = “Toyota”;’, etc
    - The ‘myArray[ myArray.length ] = <new value>;’ trick
    - Using a normal for loop to access everything in the array
  + Differences between JavaScript & Java arrays
    - You can put anything into a JS array
    - JS arrays automatically expand/make space for new elements
  + Useful methods
    - toString (implicit or explicit)
    - join
    - reverse
    - slice
  + NOT COVERED:
    - ~~Sorting arrays~~
* Lecture 19: Associative Arrays
  + Be able to explain the ‘big idea’ of an associative array
  + Object vs. Array
  + Access elements using either ‘array’ syntax or ‘object’ syntax
    - This applies to both setting a value and getting that value back out
  + Checking if a value is actually present in the array or not
  + Using a foreach / for…in loop to get all the elements of an associative array
    - Be able to explain what a loop does, possibly by filling in a trace table, etc
    - Be able to write these from scratch