**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