Week	Lecture Monday	Lab	Lecture Wednesday	Homework due
1	1-1 Intro	MATLAB windows, create a script,	1-3 Functions IO	
	1-2 Variables Equations	create variables, plot, write equation	Input, sin/cos, sqrt, exp,	
			nthroot	
			1-4 Pseudo Code	
2	2-1 Arrays	Create arrays (linspace, :, []), access	2-2 Plotting	HW1: Write
	min, max, mean, sum,	arrays (:, ()), write an equation with	subplots, plot, polar, loglog,	equations with
	length, :, linspace	an array, plot, swap variables	line styles	scalar values
3	3-1 Ifs and Relational ops	Write for loops, iterate through	3-3 Plotting in loops, nested	HW2: Write
	3-2 Loops	elements in for loop to calc sum, if	loops	equations with
	if/elseif/else, for, while	statements, if statement in for/while	3-4 Relational statements	arrays, plot the
		loop	& ~	results, different
			3-5 Switches	types of plots
4	4-1 Functions	Write a function file and an	Midterm I	HW3: For loops,
	function files, anonymous	anonymous function. Use them.	Equations, arrays, plots,	while loops, if
	functions	fplot versus plot. Local versus	simple if/while/for loops	statements
	4-2 Global variables	global variables.		
5	5-1 FZero	Using anonymous functions.	Lec 5-3 Numerical	HW4: Create
	fzero, anonymous	Finding zeros of functions.	Integration	functions. Practice
	functions		integral, trapz	with iterative
	Lec 5-2 Newton's method			equations.
6	Lec 6-1 polynomials	Using integral and trapz. Creating	Lec 6-2 fitting (cont.)	HW5: Fzero,
	Lec 6-2 fitting	and evaluating polynomials. Simple	Lec 6-3 interpolation	iterative functions,
		function fit.		trapz/integral
7	Lec 7-1 matrix basics	Function fitting. Data point	Midterm II	HW6: Function
	Creation, editing, matrix	interpolation. Basic matrix creation	Function fitting, integration,	fitting, polynomials
	mathematical operations	and editing.	polynomials, roots, fzero	
	Lec 7-2 matrix operations			
	Rotate, Scale, translate			
8	Lec 8-1	Systems of linear equations	Lec 8-2 Multi-variable	HW7: Interp1,

	Systems of equations		functions	matrices
9	Lec 9-1 Strings 1 Lec 9-2 Writing to files	String manipulation to create titles and file names. Reading and writing data to files. 3D curve and surface.	Lec 9-3 Strings II	HW8: Matrics, 3D plotting, meshgrid, interp2
10	Lec 10-1 Surfaces	Surfaces, interp2	Review	HW9: Reading and writing files, string manipulation, surfaces
Finals			Final: Matrices, strings, multi-variable functions, surfaces, meshgrid	