2019 SI@UCF Introduction to Python and PyGame Syllabus

Course Description: This course will teach the basics of Python and the package PyGame, including basic input and output, use of variables, if statements, math functions, loops, the Python Turtle, functions, strings, lists, dictionaries, game design principles, graphics and animations, images and sounds, sprites and collisions.

Course Web Page: http://www.cs.ucf.edu/~dmarino/ucf/bhcsi/2019/intro/

Grading: There are 8 daily homework assignments, each worth 4%. There are 2 tests, each worth 20%. The final project is worth the remainder of the course grade, 28%. This grade will be based on staying on task during the last week, daily check points and the quality of the final product and the style of the code.

Day	Lecture	Recitation	Assignments
6/10	Hello world,	Input,	Buying Gas
	Variables,	Intro to Turtle	Changy Money
	Expressions		Trains
			Turtle Day 1 (due 6/11 12 pm)
6/11	More Expressions,	Overloading of +, Turtle	Pictures
	Random numbers,	Examples with variables	Debbie's Numbers
	If statement		Road Trip
			Turtle Day 2 (due 6/12 3 pm)
6/12	For Loop	If Statement Examples	Pay Calculator
			For Loop Progs
			Arithmetic Game
			Turtle Day 3 (due 6/13 2 pm)
6/13	while loop	Turtle Loop Examples	Integers
			Stolen Frisbee
			Car Payments
			Turtle Day 4 (due 6/13 5 pm)
6/14	Loop practice	Test #1	Turtle Contest (due 5pm)
6/17	Nested loops	pyGame Introduction	XYZ
			Stars
			Paint 1 (due 6/17 5 pm)
6/18	Functions	Movement in pyGame	Py Game Nested Loops
			Py Game Functions (House)
			(due 6/18 5 pm)
6/19	Strings, Lists	Keyboard Input in pyGame	Bouncing Ball Edit
			(due 6/19 5 pm)
6/20	Lists in pyGame	Mouse Input in pyGame	Final Project Proposal
		1 1	Final Project Proposal (due 6/20 5 pm)
6/21	Dictionaries	Multifile Programs	Final Project Proposal (due 6/20 5 pm) Racketball (due 6/21 5 pm)
6/21 6/24	Dictionaries More Functions	Multifile Programs Sound in pyGame	Final Project Proposal (due 6/20 5 pm) Racketball (due 6/21 5 pm) Final Project
6/21 6/24 6/25	Dictionaries More Functions Review for Test #2	Multifile Programs Sound in pyGame Review for Test #2	Final Project Proposal (due 6/20 5 pm) Racketball (due 6/21 5 pm) Final Project Final Project
6/21 6/24 6/25 6/26	Dictionaries More Functions Review for Test #2 Built in Sorting	Multifile Programs Sound in pyGame Review for Test #2 Test #2	Final Project Proposal (due 6/20 5 pm) Racketball (due 6/21 5 pm) Final Project Final Project Final Project
6/21 6/24 6/25	Dictionaries More Functions Review for Test #2	Multifile Programs Sound in pyGame Review for Test #2	Final Project Proposal (due 6/20 5 pm) Racketball (due 6/21 5 pm) Final Project Final Project