

TAMU GEOG392/676: GIS Programming

Tentative Course Schedule

Topic 1	Topic 2	Topic 3	Lab
Software Engineering	Development setup	Python Variables	Lab
Python Variables	data types, containers, loops	comparators, conditionals, functions, scope	Lab 1
Python file I/O & object oriented programming	object oriented programming	calculator	Lab 2
Project Pitches	Project Pitches	error handling, built-in functions	Lab 3
iterators & regular expressions	basic ArcPy setup	basic operations	Lab 4
additional basic operations	Exam 1 Review	Exam 1	
creating a tool	creating a toolbox	search cursors, modules	Lab 5
Project Proposals	Project Proposals	ddvanced python functions	
map creation & ArcPy messaging & progress	ddvanced tool parameters	reading / writing / converting data	Lab 6
	Exam 2 Review	Exam 2	
working with Rasters	model builder	networking	Lab 7
NumPy & PySAL	R	ESRI Python products & ArcGIS Pro SDK	