## Introduction to Simulation and Modeling

Student Survey Introduction Questionnaire

Please fill out this survey.	Your answers	will help steer	the class in	the right
§1 ABOUT YOU				
Name: Email:				
Major:				
College Year:				
I am taking this class for c	redit:		У	res□ no□.
§2 Motivation				
What are you hoping to ge	et out of this cl	ass?		

§ <u>3</u>	BACKGROUND		

## 3.1 Programming

Which programming languages do you know?

	Never heard of it	Heard of it	Used it at most a couple of times	Used it a lot	Expert
Python					
Matlab					
$\mathbf{R}$					
Java					
$\mathbf{C}$					
C++					
Fortran					
Perl					

## 3.2 Programming Tools and Concepts

These are tools and concepts that will be used in this class. Whether or not I lecture on their usage depends on how you answer these questions.

		Never heard of it	Heard of it	Used if at most a couple of	st	Used it a lot	Use it always
shell (comma	and line)						
debugger							
profiler							
git (version o	control system	n) 🗆					
other version	n control syste	em					
unit tests /							
test-driven d	levelopment						
point)	what "over-"	and "under-flow'	' are (when tal	_	floating- $\Box$ no $\Box$ .		
	Never	Heard of it	Used it	Used it		_	
	heard of it		at most	a lot	Expert		
		a	couple of time	S		_	
NumPy							
SciPy							
$\mathbf{matplotlib}$							
scikit-learn							
IPython							
pandas							
3.5 OS usa		g operating syste	em primarily fo	r the course	:		
☐ Window	rs						
□ Linux (A	Any particula	r distribution?			)		
$\square$ Mac OS	X						

$\Box$ Other Unix variant (Which	h?			_)
3.6 Math Background  List all of the math courses you	have taken in col	llege, including	g statistics _	_
How well do you understand the	e following mathe Never studied	matical concep Could use some review	ots? Studied it	Expert
Derivatives	П	П	П	П
Integration				
Mathematical Optimization			П	П
Matrix Multiplication				
Matrix Inversion				
Solving Systems of Equations				
Probability Distributions				
§4 Interests				

## 4.1 Special Topics

What you are interested in will drive a lot of the content of the course. I will try to incorporate your suggested interests in the tutorials and the lab sessions, so this is your chance to let me know if you have any specific programming or scientific domain interests. This can really be anything, but some large topics of interest might be: engineering, finance, economics, physics, text mining, image recognition, environmental science, etc.

y	rou have other ideas later, you can always	s tell me about it by email.
5	Comments	
	COMMENTS	
.,		
lea	ease add any other comments you feel mig	ght be helpful.