MAJOR IN DATA SCIENCE, ECONOMICS CONCENTRATION

Major Completion Map

Freshman					
Semester 1		Critical	Recommended	AUCC	Credits
CO 150	College Composition (GT-CO2)			1A	3
CS 150B	Culture and Coding: Python (GT-AH3)			3B	3
DSCI 100	First Year Seminar in Data Science				1
ECON 202	Principles of Microeconomics (GT-SS1)			3C	3
MATH 156	Mathematics for Computational Science I (GT-MA1)			1B	4
	Total Credits				14
Semester 2		Critical	Recommended	AUCC	Credits
CS 164	CS1Computational Thinking with Java				4
DSCI 369	Linear Algebra for Data Science				4
ECON 204	Principles of Macroeconomics (GT-SS1)			3C	3
STAT 158	Introduction to R Programming				1
STAT 315	Intro to Theory and Practice of Statistics				3
	Total Credits				15
Sophomore					
Semester 3		Critical	Recommended	AUCC	Credits
CS 165	CS2Data Structures				4
CS 220	Discrete Structures and their Applications		X		4
ECON 306	Intermediate Microeconomics				3
STAT 341	Statistical Data Analysis I				3
	Total Credits				14
Semester 4		Critical	Recommended	AUCC	Credits
DSCI 235	Data Wrangling				2
ECON 211	Gender in the Economy (GT-SS1)			1C	3
ECON 304	Intermediate Macroeconomics				3
MATH 151	Mathematical Algorithms in Matlab I				1
MATH 256	Mathematics for Computational Science II				4
STAT 342	Statistical Data Analysis II				3
	Total Credits				16
Junior					
Semester 5		Critical	Recommended	AUCC	Credits
DSCI 320	Optimization Methods in Data Science				3
ECON 335/ AREC 335	Introduction to Econometrics				3
Select one course from the following:					
CO 300	Writing Arguments (GT-CO3)			2	
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
CO 302	Writing in Digital Environments (GT-CO3)			2	
JTC 300	Strategic Writing and Communication (GT-CO3)			2	
Biological and Physical Sciences (http://catalog.colostate.edu/general-			3A	3	
catalog/all-university-core-curriculum/aucc/#biological-physical-sciences)					
Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-				3D	3
university-core-c	urriculum/aucc/#historical-perspectives)				
	Total Credits				15

Total Credits

Program Total Credits:

2

Credits

3

3

1

3

6

16

3 9

4

16

4

10

14 120

Credits

Credits