

DATA SCIENCE 4-YEAR COURSE SAMPLE

FRESHMAN LEVEL

SEMESTER 1

ENG 106	Argumentative and Research Writing	3
GEN 101	First Year Seminar	3
MAT 201	Calculus I	5
TEC 102	Computer Software Applications	3

Credit hours 14

SEMESTER 2

COM 115	Essentials-Interpersonal Communication	1.5
DAT 101	Introduction to Data Science	3
DAT 210	Data Analytics and Data Mining	1
PSY 101	General Psychology	3
	Theme Course(s)	3
	Electives*	3

Credit hours 14.5

JUNIOR LEVEL

SEMESTER 1

MAT 304	Introduction to Mathematical Statistics I	3
SWK 352	Research Methods	3
TEC 310	Database Management	3
THE 101	Introduction to Theological Studies	3
	Theme Course(s)	3

Credit hours 15

SEMESTER 2

DAT 310	Data Visualization	3
MAT 305	Intro to Mathematical Statistics II	3
PHI 105	Introduction to Ethical Reasoning	1.5
	Theme Course(s)	3
	Elective* 300-400 for minor	6

Credit hours 16.5

SOPHOMORE LEVEL

SEMESTER 1

BUA 210	Statistical Techniques for Research Data Analysis	
OR		
PSY 210	Applied Statistics for Social Science	3
COM 270	Business and Professional Presentations	
OR		
COM 321	Organizational Behavior & Communication	3
MAT 212	Introduction to Abstract Mathematics	3
TEC 280	Introduction to Programming and Data Structures	3
	Theme Course(s)	3

Credit hours 15

SEMESTER 2

DAT 201	Disciplines of Data Science	1
MAT 334	Linear Algebra	3
PSY 202	Social Psychology	3
TEC 212	Computer Programming I	
OR		
TEC 312	Object Oriented Programming	3
	Theme Course(s)	3
	Electives*	3

Credit hours 16

SENIOR LEVEL

SEMESTER 1

DAT 350	Data Science Capstone I	1
TEC 403	Advanced Computer Applications for Business	3
	Theme Course(s)	3
	Electives* 300-400 level for minor	9

Credit hours 16

SEMESTER 2

DAT 450	Data Science Capstone II	1-3
	Electives* 300-400 level for minor	12

Credit hours 13-15

* Elective courses applicable to minor or second major