DATA SCIENCE CDSM UNIT ACCOUNTING TABLE

Course	Units	STAT	STAT minor	CSC	CS Minor			
Preliminary Coursework (included in both CSC and STAT majors)								
CSC 101: Fundamentals of CS I	4	required in major		required in major				
MATH 143: Calculus III	4	Required in major		required in major				
MATH 206/244: Linear Algebra/ Linear Analysis	4	required in major		required in major				
STAT 302: Introduction to Statistics II or STAT 312: Statistical Methods for Engineers	4	required in major (302)		required in major (312)				
CSC 348: Discrete Structures Or MATH 248: Methods of Proof	4	required in major (248)		required in major (348)				
SUBTOTAL	20							
	Data	Science Minor Coursew	ork					
CSC 202: Data Structures	4	Elective B		required in major				
CSC 203: Project-Based Object- Oriented Programming and Design	4	Elective B		required in major				
STAT 305 Introduction to Probability and Simulation	4	required in major		Math/Stat elective				
CSC 365: Intro to Databases	4	Approved elective		technical elective (1)				
CSC 369: Distributed Computations	4	Approved elective		technical elective (2)				
CSC 349: Algorithms	4	Elective B		required in major				
STAT 331: R Programming	4	required in major		technical elective (3)				
STAT 334: Applied Linear Models	4	required in major		Free elective				
STAT 419: Applied Multivariate analysis	4	Elective A		Minor	4			
CSC 466: Knowledge Discovery from Data	4	Free elective		technical elective (4)				
DATA 301: Introduction to Data Science	4	Minor	4	Minor	4			

DATA 401: Data Science	4	Minor	4	Minor	4
DATA 451: Data Science	2	Minor	2	Minor	2
Capstone I					
DATA 452: Data Science	2	Minor	2	Minor	2
Capstone II	2	MIIIOI	L	WIIIIOI	2
Technical electives (CS, STAT,	8	Elective A (if STAT)		technical elective (5-	
DATA)	O			6)	
SUBTOTAL	60		12		16
TOTAL	80		12		16

Note: B.S. in Computer Science students will use up the following elective units from the B.S. in CS curriculum:

• Math/State elective: 4 units

• Free Elective: 4 units

• Technical Elective: 24 units

These are **all** elective units allowed in the B.S. in Computer Science (note: 8 of the 24 technical elective units can be used for any approved technical elective)

Note: B.S. in Statistics students will use up the following elective units from the B.S. in Statistics curriculum:

• Approved elective: 8 units

Elective B: 12 unitsElective A: 12 unitsFree elective: 4 units