B.S. Computational and Data Sciences   2024-2025

FALL YEAR 1	CREDITS	SPRING YEAR 2	CREDITS	NOTES
MATH 113	4	MATH 114	4	
CDS 130	3	CDS 101	3	
STAT 250	3	CDS 102	1	
ENGH 100/101	3	STAT 350	3	
UNIV 100	1	CDS 151	1	
		COMM 100/101	3	
Total:	14 Credits	Total:	15 credits	
FALL YEAR 2	**CREDITS**	**SPRING YEAR 2**	**CREDITS**	**NOTES**
MATH 213 OR 203	3	MATH Elective	3	*SCI/ENG Elective
SCI/ENG Elective*	3 or 4	CDS 302	3	= Science or
CDS 301	3	CDS 230	3	Engineering
CDS 303	3	HIST 125	3	elective
Art Req.	3	Lit. Req.	3	
Total:	15 or 16 credits	Total:	15 credits	
FALL YEAR 3	**CREDITS**	**SPRING YEAR 3**	**CREDITS**	**NOTES**
CDS Ext. Core*	3	CDS Ext. Core	3	*CDS Ext. Core =
CDS Ext. Core	3	CDS Ext. Core	3	CDS Extended
ENGH 302	3	G.U. Req.*	3	Core.
Natural Science**	3	Open Elective	3	*G.U. = Global
Open Elective	3	Open Elective	3	Understanding
Total:	15 credits	Total:	15 credits	requirement.
FALL YEAR 4	**CREDITS**	**SPRING YEAR 4**	**CREDITS**	**NOTES**
CDS 491 OR 492*	3	CDS 491 OR 492	3	*CDS 491 = Intern-
CDS Ext. Core	3	CDS Ext. Core	3	Ship (1-3 credits).
S.B.S. Req.*	3	CDS Ext. Core	3	CDS 492 = Cap-
Open Elective	3	Open Elective	3	stone course.
Open Elective	3	Open Elective	3	*S.B.S. = Social and
Total:	15	Total:	15	Behavioral Science

*Students must earn 120 credits minimum for graduation; 45 credits must be upper-level (courses 300+). **The Natural Science requirement should be a science or engineering elective (no lab necessary) approved in the 2018-2019 catalog for the CDS major.

-The Department VERY STRONLGY ADVISES that CDS students NOT TAKE MORE THAN TWO COMPUTER LANGUAGES IN ANY ONE SEMESTER!

-6 credits of Science or Engineering electives are required. The Department prefers that these 6 credits be taken in the SAME SCIENCE or ENGINEERING area. The goal is to BUILD COMPETENCE in a particular knowledge domain. Suggested: MATH 213 (Analytic Geometry and Calculus III), or MATH 203 (Linear Algebra).

-While not strictly required, a MATH elective is strongly suggested. If students have already taken MATH 213, then MATH 214 is suggested for those students interested in *computational science*. If students have not taken MATH 213, then MATH 125 is suggested for students interested in *data science*.

-The Department suggests that a student's OPEN ELECTIVES are utilized to either extend the student's educational experience in CDS, or, to obtain a MINOR DEGREE in a knowledge domain. The Department suggests that the student meet with the CDS academic advisor to plan/map out an elective strategy to achieve this goal.

-If the CDS 491 course is chosen in the seventh semester, then the student will choose CDS 492 in the eighth semester, and vice versa.

-The Mason Core Art, Global Understanding, Global History, and Social and Behavioral Science requirements do not have to be taken in the semesters designated above. They can be taken in the order that best fits the students schedule.