

Data Science Sample Schedule

	Total	Term:							
	Credit Hours	1	2	3	4	5	6	7	8
Subjects Required by all Programs (55 hours)									
Mathematics 115, 116, and 214, 215 ¹	12	4	4	-	4	4	-	-	-
Engineering 100, Introduction to Engineering	4	-	4	-	-	-	-	-	-
Engineering 101, Introduction to Computers	4	4	-	-	-	-	-	-	-
Chemistry 125/126 and 130 or Chemistry 210 and 211	5	5	-	-	-	-	-	-	-
Physics 140 with Lab 141; Physics 240 with Lab 241	10	-	5	5	-	-	-	-	-
Intellectual Breadth	16	4	4	-	4	4	-	-	-
Program Core (30 hours)									
EECS 203 Discrete Mathematics, or MATH 465	4	-	-	4	-	-	-	-	-
EECS 280, Programming and Elementary Data Structures	4	-	-	4	-	-	-	-	-
EECS 281, Data Structures and Algorithms	4	-	-	-	4	-	-	-	-
STATS 412	3	-	-	-	-	3	-	-	-
STATS 413	4	-	-	-	-	-	4	-	-
EECS 484 or EECS 485, Databases & Applications	4	-	-	-	-	-	4	-	-
EECS 445 or STATS 415	4	-	-	-	-	4	-	-	-
Data Science Application Course ²	3	-	-	-	-	-	-	3	-
Technical Electives & Capstone (12 hours)									
Advanced DS Technical Electives ³	8	-	-	-	-	-	-	4	4
Approved DS Capstone course	4	-	-	-	-	-	-	-	4
Other Requirements (16 hours)									
Flexible Technical Electives ^{4,5}	11	-	-	-	4	-	4	3	-
TCHNCLCM 300	1	-	-	-	-	-	1	-	-
EECS 496, Major Design Experience Professionalism	2	-	-	-	-	-	-	2	-
TCHNCLCM 497 or STATS 404 ⁶	2	-	-	-	-	-	-	2	-
General Electives (15 hours)	15	-	-	3	-	-	3	1	8
Total	128	17	17	16	16	15	16	15	16

Revised: April-17

Candidates for the Bachelor of Science in Engineering in Data Science - B.S.E. in Data Science - must complete the program listed above. This sample schedule is an example of one leading to graduation in eight terms.

Notes:

C- Rule: Among science, engineering and mathematics courses, a grade of C- or below is considered unsatisfactory.

Credits from a course may only be used to fulfill a single requirement (no double counting).

¹The requirements for Math 214 can be satisfied by Math 217 as an alternative.

²List of approved courses for this requirement can be found through the DS-Eng section of the EECS website.

³Advanced DS Technical Electives: 300-level or higher from a pre-approved list of courses found through the DS-Eng section of the EECS website, or with Chief Program Advisor approval prior to taking the course.

⁴Flexible Technical Electives (FTEs): Approved courses at the 200+ level; list can be found through the DS-Eng section of the EECS website.

⁵A maximum of 4 hours of EECS 499 (or other upper-level directed/independent study) may be applied to Flexible Technical Electives. Anything beyond 4 hours will be applied toward the General Electives.

⁶Another approved 400-level technical communications course may be used with Chief Program Advisor approval prior to taking the course.