B. S. in **Data Science** (120 credits) Fall 2017 Catalog

Sample Course Sequence (Full-time students, 4-year, 11-semesters plan, Fall, Winter, and Summer terms)

This Sample Course Sequence sheet shows ***only one example*** of how courses may be scheduled. Some courses may be taken before or after the semester they are listed, provided course Pre-Requisites <link> have been met.

Semester	Course	Prerequisites	Co-requisites
FALL – 1	CIS 1501 (4 credits)		MATH 115
14 credits	COMP 105 (3)	Placement into COMP 105	
	MATH 115 (4)	Placement into MATH 115	
	DDC –GEHA or GESB (3)		
Winter	CIS 2001 (4)	CIS 1501, MATH 115	
12 credits	MATH 116 (4)	MATH 115	
	Laboratory Science (4)	Varies with specific course	
Summer	MATH 227 (3)	MATH 116	
6 credits	DDC –GEHA or GESB (3)		
FALL – 2	DDC – GEHA or GESB (3)		
13 credits	MATH 276 (4) (or CIS 275 (4))	MATH 116	(CIS 2001)
	ECE 3100 (3)	CIS 1501, MATH 217	IMSE 317 or STAT 325
	IMSE 317 (3) (or STAT 325)	MATH 116	
Winter	Science (3)	Varies with specific course	
13 credits	CIS 350 (4)	MATH 115, CIS 2001, CIS 275	
	CIS 3200 (3)	CIS 2001, ECE 3100	
	COMP 270 (3)	COMP 105 and 35 credits completed	
Summer	MATH 205 (3) (or MATH 215 (4))	MATH 116	
6 credits	*Data Science App. course (3)	Varies with specific course	
FALL – 3	*Data Science App. course (3)	Varies with specific course	
13 credits	STAT 305 (3)	MATH 116	
	CIS 422 (4)	CIS 2001, CIS 3200	
	DDC –GEHA or GESB (3)		
Winter	STAT 326 (3)	STAT 325 or IMSE 317	
12 credits	*Data Science App. course (3)	Varies with specific course	
	**Data Science Elective (3)	Varies with specific course	
	*Data Science App. course (3)	Varies with specific course	
Summer -3 credits	DDC –GEHA or GESB (3)		
FALL – 4	CIS 4971 (2)	CIS 3200, STAT 326 or 425	One 400-level DS core
14 credits	*Data Science App. course (3)	Varies with specific course	
	HHS 470 (3)		
	DDC- GEIN (3)		
	*Data Science App. course (3)	Varies with specific course	
Winter	CIS 4972 (2)	CIS 4961	STAT 430
14 credits	ENGR 400 or ENT 400 (DS & GEIN) (3)	Senior Standing (85 credits)	
	STAT 430 (3)	Varies with specific course	
	**General Elective (3)		
	**Data Science Elective (3)	Varies with specific course	

*Total Data Science Application area min. 18 approved credits **Total Data Science Electives minimum 6 credits, Total Data Science Electives + General Electives minimum 9 credits – see curriculum

➔ See **CURRICULUM REQUIREMENTS SHEET** (**www.engin.umd.umich.edu/SRA/circ_requir.php**) <link> for detailed course requirements, including those for the Humanities and Behavioral or Social Sciences courses.

➔ For courses needed for co-op see: www.engin.umd.umich.edu/COOP/eligibility.php <link> [8/17]