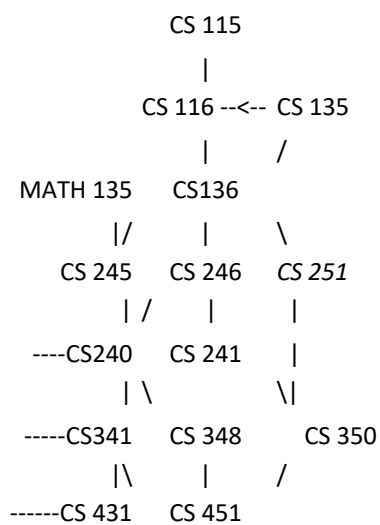


Data Science (BMath) Checklist

Terms	Calendar 2018-19	Terms	Calendar 2017-18	If you liked...	Try...
Core					
FWS	MATH 135, 145	FWS	MATH 135, 145	STAT 330	STAT 450
FWS	MATH 106, 136, 146	FWS	MATH 106, 136, 146	STAT 331/371	STAT 431
FWS	MATH 127, 137, 147	FWS	MATH 127, 137, 147		STAT 443
FWS	MATH 128, 138, 148	FWS	MATH 128, 138, 148	STAT 332/372	STAT 454
FWS	MATH 235, 245	FWS	MATH 235, 245		STAT 430
FWS	MATH 237, 247 ⁷	FWS	MATH 237, 247 ⁷	STAT 333	STAT 433
FWS	STAT 230, 240	FWS	STAT 230, 240	STAT 340/341	STAT 440
FWS	STAT 231, 241	FWS	STAT 231, 241		STAT 441
FWS ¹⁰	CS 115, 135, 145	FWS ¹⁰	CS 115, 135, 145		STAT 442
FWS ¹⁰	CS 136, 146	FWS ¹⁰	CS 136, 146		STAT 444
FWS	MATH 239 ⁷ , 249 ⁷	FWS	MATH 239 ⁷ , 249 ⁷	STAT 337	STAT 431
FWS	Communications Course ¹	FWS	Communications Course ¹		STAT 436
Data Science Mandatory Courses					
FWS ¹⁰	CS 240	FWS ¹⁰	CS 240		
FWS ¹⁰	CS 241	FWS ¹⁰	CS 241		
FWS ¹⁰	CS 245	FWS ¹⁰	CS 245	Going to...	Try...
FWS ¹⁰	CS 246	FWS ¹⁰	CS 246	Industry	STAT 435
FWS ¹⁰	CS 251	FWS ¹⁰	CS 251	Computers	STAT 440
FWS ¹⁰	CS 341	FWS ¹⁰	CS 341	(Big Data)	STAT 441
		FWS ¹⁰	CS 350		STAT 442
FWS ¹⁰	CS 348	FWS ¹⁰	CS 348		STAT 444
		FWS ¹⁰	CS 451	Grad School	STAT 450
FWS	STAT 330 ⁹	FWS	STAT 330 ⁹	Finance	STAT 433
FWS	STAT 331 ²	FWS	STAT 331 ²		STAT 443
FWS	STAT 332 ³	FWS	STAT 332 ³	Biology/Health	STAT 431
FWS	STAT 333 ⁹	FWS	STAT 333 ⁹		STAT 436
FW	STAT 341	FW	STAT 341		STAT 437
FWS	ENGL 378 ⁴	FWS	ENGL 378 ⁴		STAT 438
Data Science Mandatory with Options					
	One Of...				
WS ¹⁰	CS 431				
WS ¹⁰	CS 451				
	One Of...		One Of...		
FWS ¹⁰	CS 480				
10	CS 485	10	CS 485		
FWS ¹⁰	CS 486	FWS ¹⁰	CS 486		
F, W(?)	STAT 441	F, W(?)	STAT 441		
	PLUS Two Of...		PLUS Two Of...		
FWS ¹⁰	CS 480			STAT 230----->	
10	CS 485	10	CS 485		
FWS ¹⁰	CS 486	FWS ¹⁰	CS 486	MATH 239---->	
FWS	STAT 431	FWS	STAT 431	CS 251----->	
WS	STAT 440	WS	STAT 440		
FW	STAT 441	FW	STAT 441		
FW	STAT 442	FW	STAT 442		
FWS	STAT 443	FWS	STAT 443		
WS	STAT 444	WS	STAT 444		
	Leading to a minimum of...		Leading to a minimum of...		
	>=3 STAT 4XX ^{5,6}		>=3 STAT 4XX ^{5,6}		
	>=2 Math 3XX/4XX ⁶				
Overall					
	>=10 non math		>=10 non math		
	>=26 math ⁸ courses ⁶		>=26 math ⁸ courses ⁶		
	>=40 courses		>=40 courses		

Schema



¹Please see ugradcalendar.uwaterloo.ca for a list of courses.

²STAT 331 can be replaced by STAT 371

³STAT 332 can be replaced by STAT 372.

⁴MTHEL 300

⁵One of these can be selected from: CS 457, 486, 485

⁶These can come from the "Mandatory with Options" section

⁷For core, in most plans, you need one of MATH 237, 239. In DS you need both.

⁸A MATH course is any course offered in the Faculty (i.e. CS, STAT, ACTSC, ...) except COMM or MTHEL

⁹STAT 334 is not an acceptable course for any STAT plan; please take 330, 333.

¹⁰For CS courses please see https://cs.uwaterloo.ca/current/courses/course_descriptions/ for offerings

Please see ugradcalendar.uwaterloo.ca for a complete list of rules.