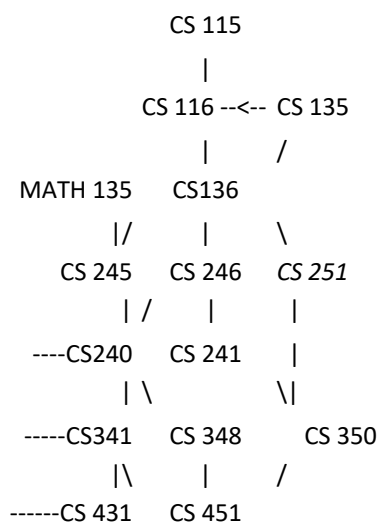


Data Science (BMath) Checklist

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 116, 136, 146	FWS ¹⁰	CS 116, 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		
WS	STAT 440	WS	STAT 440	CS 251----->	
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.