

About this document

This document is meant to serve as an advising guide for four-year students in the BS Data Science program at UNC Charlotte. The bulk of this document contains plans of study for various situations based on semester starting (fall, spring) and math placement level (ML1, ML2, ML3, ML4). It is meant to be used by current students, prospective students, and program academic advisors.

Of course, these plans of study are just a starting point, and each individual student's plan can be modified to meet their needs. However, note that courses with the ► symbol are only offered in the semester (fall/spring) in which they appear in the plan. For example, DTSC 1301 can only be taken in the fall; students should not alter their plan of study in a way that would count on taking DTSC 1301 in the spring, as this course is not offered in the spring.

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Graduation Requirements

To graduate with a bachelor's degree from the University of North Carolina at Charlotte, *all* students regardless of major must meet the following requirements:

- Earn at least 120 credits (no exceptions can be made!)
- Complete all general education requirements (see below)
- Be in good academic standing and have a cumulative grade point average of at least 2.0
- Complete all major requirements and have a grade point average of at least 2.0 in major courses

General Education Requirements for Data Science Majors

You must earn credit (through transfer credit or taking courses at UNC Charlotte) for the following seven courses outside the data science major:

- WRDS 1103 or 1104
- Science with a lab
- Science without a lab
- One of: LBST 1101, 1102, 1103, 1104, or 1105
- Two of: LBST 2101, 2102, 2211, 2212, 2213, 2214, or 2215 (only one of 221X can count)
- LBST 2301

All other general education courses listed as required in the undergraduate catalog are covered by courses required for the data science major.

Which plan is right for me?

You will need to check your math placement score and your WRD (writing) placement score. These can both be found on your DegreeWorks worksheet (degreeworks.charlotte.edu) and on your advising transcript (on Banner Self-Service).

Four-Year Student - Fall Start - ML3 or ML4

First Year	Fall	Spring
	WRDS 1103 or 1104 (***)	ITSC 1213
	▶ DTSC 1301	Calculus (*)
	▶ DTSC 1302	LBST
	STAT 1222	Science
	LBST	Elective
Second Year	Fall	Spring
	MATH 2164	▶ DTSC 2301
	ITSC 2214	▶ DTSC 2302
	Discrete Math (**)	STAT 2223
	LBST	LBST
	Elective	Elective
Third Year	Fall	Spring
	▶ DTSC 3601	ITCS 3160
	▶ DTSC 3602	ITCS 3162
	Science	Elective
	Elective	Elective
	Elective	Elective
Fourth Year	Fall	Spring
	▶ STAT 3160	▶ DTSC 4301
	Elective	▶ DTSC 4302
	Elective	Elective
	Elective	Elective
	Elective	Elective

(*) Calculus = MATH 1120 (ML3/ML4) or MATH 1241 (ML4)

(**) Discrete math = ITSC 2175 or MATH 1165

(***) Which WRDS course you need to take depends on your placement level

Four-Year Student - Spring Start - ML3 or ML4

First Year	Fall	Spring
		WRDS 1103 or 1104 (***)
		STAT 1222
		Calculus (*)
		LBST
		Elective
Second Year	Fall	Spring
	▶ DTSC 1301	▶ DTSC 2301
	▶ DTSC 1302	▶ DTSC 2302
	Discrete Math (**)	STAT 2223
	LBST	LBST
	Elective	Elective
Third Year	Fall	Spring
	MATH 2164	ITSC 2214
	ITSC 1213	ITCS 3160
	▶ STAT 3160	Science
	Elective	Elective
	Elective	Elective
Fourth Year	Fall	Spring
	▶ DTSC 3601	▶ DTSC 4301
	▶ DTSC 3602	▶ DTSC 4302
	Elective	Elective
	Elective	Elective
	Elective	Elective
Fifth Year	Fall	Spring
	ITCS 3162	
	Science	
	LBST	
	Elective	
	Elective	

(*) Calculus = MATH 1120 (ML3/ML4) or MATH 1241 (ML4)

(**) Discrete math = ITSC 2175 or MATH 1165

(***) Which WRDS course you need to take depends on your placement level

Four-Year Student - Fall Start - ML1 or ML2

First Year	Fall	Spring
	WRDS 1103 or 1104 (***)	ITSC 1213
	▶ DTSC 1301	MATH 110X (+)
	▶ DTSC 1302	LBST
	STAT 1222	Science
	LBST	Elective
Second Year	Fall	Spring
	Calculus (*)	▶ DTSC 2301
	ITSC 2214	▶ DTSC 2302
	LBST	STAT 2223
	LBST	MATH 2164
	Elective	Elective
Third Year	Fall	Spring
	▶ DTSC 3601	ITCS 3160
	▶ DTSC 3602	ITCS 3162
	Discrete Math (**)	Science
	Elective	Elective
	Elective	Elective
Fourth Year	Fall	Spring
	▶ STAT 3160	▶ DTSC 4301
	Elective	▶ DTSC 4302
	Elective	Elective
	Elective	Elective
	Elective	Elective

(+) MATH 110X = MATH 1101 (ML1) or MATH 1100 (ML2)

(*) Calculus = MATH 1120 (must pass MATH 110X first)
 or MATH 1241 (must earn C or better in MATH 1103 first)

(**) Discrete math = ITSC 2175 or MATH 1165

(***) Which WRDS course you need to take depends on your placement level

Four-Year Student - Spring Start - ML1 or ML2

First Year	Fall	Spring
		WRDS 1103 or 1104 (***)
		STAT 1222
		MATH 110X (+)
		LBST
		Elective
Second Year	Fall	Spring
	▶ DTSC 1301	▶ DTSC 2301
	▶ DTSC 1302	▶ DTSC 2302
	Calculus (*)	STAT 2223
	LBST	LBST
	Elective	Elective
Third Year	Fall	Spring
	Discrete Math (**)	ITSC 2214
	ITSC 1213	ITCS 3160
	▶ STAT 3160	MATH 2164
	Elective	Science
	Elective	Elective
Fourth Year	Fall	Spring
	▶ DTSC 3601	▶ DTSC 4301
	▶ DTSC 3602	▶ DTSC 4302
	Elective	Elective
	Elective	Elective
	Elective	Elective
Fifth Year	Fall	Spring
	ITCS 3162	
	Science	
	LBST	
	Elective	
	Elective	

(+) MATH 110X = MATH 1101 (ML1) or MATH 1100 (ML2)

(*) Calculus = MATH 1120 (must pass MATH 110X first)
 or MATH 1241 (must earn C or better in MATH 1103 first)

(**) Discrete math = ITSC 2175 or MATH 1165

(***) Which WRDS course you need to take depends on your placement level