

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 or 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.

v2.0

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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 the following 1501 level courses (subject to change)
 - AFRS 1501, ANTH 1501, ECON 1501, INTL 1501, POLS 1501, or SOCY 1501
- One of the following 1502 level courses (subject to change)
 - ARTA 1502, CHNS 1502, DANC 1502, ENGL 1502, FILM 1502, FRAN 1502, FREN 1502, GERM 1502, HIST 1502, ITLN 1502, LACS 1502, LTAM 1502, RELS 1502, SPAN 1502, or THEA 1502
- One of the following 1511 level courses (subject to change)
 - CJUS 1511, EDUC 1511, POLS 1511, SOWK 1511, or SOCY 1511
- One of the following 1512 level courses (subject to change)
 - CAPI 1512, CHNS 1512, ENGL 1512, HIST 1512, MUSC 1512, PHIL 1512, RELS 1512, SPAN 1512, THEA 1512, or WGST 1512
- CTCM 2530

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

Four-Year Student - Fall Start - ML1 or ML2 (Enrolled in Fall 2023 forward)

First Year	Fall	Spring
	WRDS 1103 or 1104 (***) ▶ DTSC 1301 ▶ DTSC 1302 STAT 1222 1501/1502/1511/1512 course	ITSC 1213 MATH 110X (+) 1501/1502/1511/1512 course Science Elective
Second Year	Fall	Spring
	Calculus (*) ITSC 2214 1501/1502/1511/1512 course Science w/ lab course Elective	▶ DTSC 2301 ▶ DTSC 2302 STAT 2223 MATH 2164 Elective
Third Year	Fall	Spring
	▶ DTSC 3601 ▶ DTSC 3602 Discrete Math (**) CTCM 2530 Elective	ITCS 3160 ITCS 3162 1501/1502/1511/1512 course Elective Elective
Fourth Year	Fall	Spring
	STAT 3160 Elective Elective Elective Elective	▶ DTSC 4301 ▶ DTSC 4302 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 take is up to the student. WRDS 1103 is intended to be a faster pace with less support.

Four-Year Student - Spring Start - ML1 or ML2 (Enrolled in Fall 2023 forward)

First Year	Fall	Spring
	_____	WRDS 1103 or 1104 (***)
	_____	STAT 1222
	_____	MATH 110X (+)
	_____	1501/1502/1511/1512 course
		Elective
Second Year	Fall	Spring
	▶ DTSC 1301	▶ DTSC 2301
	▶ DTSC 1302	▶ DTSC 2302
	Calculus (*)	STAT 2223
	1501/1502/1511/1512 course	1501/1502/1511/1512 course
	Elective	CTCM 2530
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
	ITCS 3162	Elective
	Elective	Elective
	Elective	Elective
Fifth Year	Fall	Spring
	Science w/lab	_____
	1501/1502/1511/1512 course	_____
	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 - Fall Start - ML3 or ML4 (Enrolled in Fall 2023 forward)

First Year	Fall	Spring
	WRDS 1103 or 1104 (***) ▶ DTSC 1301 ▶ DTSC 1302 STAT 1222 1501/1502/1511/1512 course	ITSC 1213 Calculus (*) 1501/1502/1511/1512 course Science CTCM 2530
Second Year	Fall	Spring
	MATH 2164 ITSC 2214 Discrete Math (**) 1501/1502/1511/1512 course Elective	▶ DTSC 2301 ▶ DTSC 2302 STAT 2223 1501/1502/1511/1512 course Elective
Third Year	Fall	Spring
	▶ DTSC 3601 ▶ DTSC 3602 Science w/lab CTCM 2530 Elective	ITCS 3160 ITCS 3162 Elective Elective Elective
Fourth Year	Fall	Spring
	STAT 3160 Elective Elective Elective Elective	▶ DTSC 4301 ▶ DTSC 4302 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 (Enrolled in Fall 2023 forward)

First Year	Fall	Spring
	_____	WRDS 1103 or 1104 (***)
	_____	STAT 1222
	_____	Calculus (*)
	_____	1501/1502/1511/1512 course
		Elective
Second Year	Fall	Spring
	▶ DTSC 1301	▶ DTSC 2301
	▶ DTSC 1302	▶ DTSC 2302
	Discrete Math (**)	STAT 2223
	1501/1502/1511/1512 course	1501/1502/1511/1512 course
	Elective	CTCM 2530
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
	ITCS 3162	Elective
	Elective	Elective
	Elective	Elective
Fifth Year	Fall	Spring
	Science w/Lab	_____
	1501/1502/1511/1512 course	_____
	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