A General Education Guide for Data Science Majors
The Charlotte Core

Starting in Summer 2023, Charlotte will launch an updated version of general education. Students who started before Fall 2023, should continue to follow DegreeWorks to assist with meeting their general education requirements for graduation. All newly admitted students, starting at Charlotte in fall 2023, should follow the guidelines posted below as well as their DegreeWorks to meet their General Education requirements required for graduation.

Overall students should be aware that general education courses are only about 10 courses and typically add up to 31-32 credit hours out of the 120 needed for degree completion. Data science majors will have some overlap with our major courses and general education which will allow students to meet both requirements without taking two separate courses. The goal for most students on a four-year track would be to complete general education within the first two years.

This table below highlights the general education requirements:

		Requirement	Credit	Competencies
Foundations (19-21 credits)		**1st Year Writing**	3-4	CM & CT
		2nd Year CTCM	3	CM & CT
		Quant/Data (Math or Stat)	3	QT & CT
		Quant/Data (various)	3	QT & CT
		Natural Science (w/lab)	4	QT & CT
		Natural Science (lab optional)	3-4	QT & CT
Themes (12 credits)	*Global*	**Social Science** (XXXX-1501)	3	IC & CT
		Arts/Humanities (XXXX-1502)	3	IC & CT
	Local	**Social Science** (XXXX-1511)	3	IC & CT
		Arts/Humanities (XXXX-1512)	3	IC & CT

Foundations in General Education

The first part of general education is titled **Foundations**. It will cover many of the required topics that students have seen before such as writing, math and science. Students will be assigned into a Writing level based upon their admissions application. Students can choose either ***WRDS (Writing Rhetoric and Digital Studies) 1103 or 1104***. If a student has AP credit or dual enrollment credit for this course then they would meet this requirement.

FIRST Year Writing:
- Can be found under "Writing Rhetoric and Digital Studies" as the Course Subject in Banner. Students should select 1103 or 1104 based on what they feel is a better fit. Students still have recommended placement on transcripts in Banner.
- The Writing Assignment can be located in Banner, under "Student Services and Student Accounts" then "Student Records" and finally "Advising Transcript", It will be listed toward the top on the page under "attributes".

SECOND Year Writing:
- Would be a course called CTCM 2530. This can be located under the course subject, " Critical Thinking and Communication". This is not typically a first-year course and would be recommended for most students their sophomore year. Students must have credit for the WRDS 1103 or WRDS 1104 before enrolling as well as 30 earned hours (sophomore standing).

Quantitative/Data:
- For Data Science students the requirements for the Quantitative/Data requirement overlap easily with the general education requirements Data Science will enroll in STAT 1222 their first semester at Charlotte unless completed previously.
  - First Semester Requirement:
    - STAT 1222, please be aware we will also accept STAT 1220 if STAT 1222 is not a good option for the student.
  - Second Semester/Third Semester
    - Students will be required to take either MATH 1120 or MATH 1241 as a part of their major curriculum.
    - How well a student does on their math placement exam or what courses might have been transferred might impact how many and which math courses a student would need to take.
    - MATH 1120 would be a good option for a student who does not enjoy calculus or is not planning to add a double major in an additional STEM area. MATH 1120 students DO NOT take pre-calculus.

- MATH 1241 which requires a Pre-calculus course, would be recommended for a student who is planning to double major or minor in a STEM area.

- Math Placement Scores
  - Similar to the writing placement for students, math will also dictate where a student can start off in their courses. **It is important to note that STAT 1222 which is required for Data Science students DOES NOT require a specific math placement level. However if you did not bring in an ACT/SAT math score or transfer credit, you will need to take math placement exam in order to enroll.**
  - The Math Placement can be located in Banner, under "Student Services and Student Accounts" then "Student Records" and finally "Advising Transcript", It will be listed toward the top on the page under "attributes".
    - **Math Level 1** - students can enroll in STAT 1222 as well as MATH 1101
    - **Math Level 2** - students can choose between STAT 1222 or STAT 1220 and can also take MATH 1100 (college algebra)
    - **Math Level 3** - students can jump right into STAT as well as MATH 1120. If a student is a Math level 3 and is planning to take MATH 1241 (see description above) then they would enroll in MATH 1103.
    - **Math Level 4** - student has placed as high as possible and can enroll in almost any entry level math course. This would include: STAT 1222/1220 and MATH 1120 or MATH 1241

- Natural Sciences requires that all students complete two science courses. Out of these two courses, for one students must also complete a matching 1 credit hour lab course. It is important to note that the three hour course and the 1 hour lab DO NOT need to be taken concurrently. They can be taken in different semesters.
  - If a student for example brings in credit for AP PSYCH and AP BIOL there is a good chance they would still need to take a lab course. In this scenario, the student can either take the 1 credit PSYC 1101 lab or the BIOL 1110 lab to meet the general education requirement for natural science.
  - Students planning to attend medical school or a pre-health area after college, need to let their advisor know so these courses can be selected properly.
  - Students considering a double major, might want to see if there is a required natural science course for that program that can double count. Data Science does not require a specific science course.
  - Some recommendations -

- PSYC 1101, ESCI 1101, BINF 1101, GEOL 1200, MERT 1102
- ** please note that ITIS 1350 has not been offered in some time and EXER courses are for majors only **

Themes in General Education

The second part of General Education is titled "Themes" and will focus on the areas of the social sciences, economics, art appreciation, history, languages and humanities. **Students will need to take four courses that they get to select in each area or block.** Students might choose to take one a semester or perhaps more than one in a term. When searching for these courses in Banner, you must look under the course topic and then the number. An example of this would be AFRS 1501. *A student would need to search under the subject, "Africana Studies" first and then look for AFRS 1501.*

**Please note that not all courses will be open to all students. If a student tries to add an Honors course, they will receive an error message. We also have a number of courses that are only for students in the College of Liberal Arts and Sciences and University College to assist them with narrowing down a major choice. **

Global (Students will need one 1501 course and one 1502 from list below):
- 1501 Selections:
  - AFRS 1501 (Africana Studies is subject in Banner)
  - ANTH 1501 (Anthropology)
  - ECON 1501 (Economics)
  - INTL 1501 (International Studies)
  - POLS 1501 (Political Science)
  - SOCY 1501 (Sociology, study of groups)
- 1502 Selections:
  - ARTA 1502 (Art - Academic and Developmental)
  - CHNS 1502 (Chinese, Culture course taught in English)
  - DANC 1502 (Dance Appreciation, only Online Options)
  - ENGL 1502 (English)
  - FILM 1502 (Film Studies)
  - FRAN 1502 (Francophone Studies, Study of French language)
  - FREN 1502 (French, Culture course taught in English, Hybrid)
  - GERM 1502 (German, Culture course taught in English)
  - HIST 1502 (History, some sections of this course not open to all students)
  - ITLN 1502 (Italian, Culture course taught in English)
  - LACS 1502 (Latin & Cultural Studies, night class - one section)
  - LTAM 1502 (Latin American Studies, Hybrid)

- ○ RELS 1502 (Religious Studies, some sections of this course not open to all students. Last section listed is for Honors Students only)
- ○ SPAN 1502 (Spanish, Culture course taught in English, Hybrid)
- ○ THEA 1502 (Theater, Cross listed with LBST 1104 which has more seats)

Local (Students will need one 1511 course and one 1512 from list below):
- 1511 Sections:
  - ○ CJUS 1511 (Criminal Justice, online sections offered)
  - ○ EDUC 1511 (Education)
  - ○ POLS 1511 (Political Science, same as POLS 1130)
  - ○ SOWK 1511 (Social Work, same as SOWK 1101)
  - ○ SOCY 1511 (Sociology, some sections of this course not open to all students. Focus on section numbers 11- 40)
- 1512 Sections:
  - ○ CAPI 1512 (Capitalism Studies, cross listed with HIST 1512 section 027)
  - ○ CHNS 1512 (Chinese, Culture course taught in English)
  - ○ ENGL 1512 (English)
  - ○ HIST 1512 (History, some sections of this course not open to all students)
  - ○ MUSC 1512 (Music)
  - ○ PHIL1512 (Philosophy)
  - ○ RELS 1512 (Religious Studies, only first two sections listed)
  - ○ SPAN 1512 (Spanish, Culture course taught in English, Hybrid)
  - ○ THEA 1512 (Theater, Cross listed with THEA 1104)
  - ○ WGST 1512 (Women & Gender Studies)

Important Things to Know:

- *How many credit hours should I take each semester?*
  - ○ Undergraduate students who are planning to graduate in four years, should enroll in 15 credit hours a semester. All degrees require students to acquire 120 credit hours in order to be awarded a degree.

- *How many credit hours is required to be considered a full time student?*
  - ○ Students are considered to be full time when they are enrolled in anywhere from 12 - 18 credit hours. Part time students are enrolled in under 12 credit hours per semester.

- *I noticed when looking at classes that some courses have multiple meeting days/times, what does this mean?*
  - If a class is listed as T from 12:30 - 1:45 and TR from 2:00-2:45 it means that you are expected to attend the course on Tuesday from 12:30 - 1:45 and on Tuesday and Thursday you would attend from 2:00-2:45.
  - T = Tuesday only, TR = Tuesday and Thursday, R= Thursday only

- *When looking at my Advising Transcript in Banner, I noticed that some credits are posted but others are not. What do I need to do?*
  - If you took AP, IB in High School and took it this year, typically scores are not sent until the week of July 4th. Try not to enroll in a course that you are expecting to receive credit in.
  - If you took AP, IB or Dual Enrollment last year and do not see your scores, keep in mind that your High School does not send scores. These score reports need to come from the College Board. Make sure you request these scores as soon as possible and do not enroll in courses/requirements you are expecting to get credit in.
    - Not sure if your scores are high enough? Check out the Charlotte list!
      - https://admissions.charlotte.edu/apply/credit-tests
  - If you are missing Dual Enrollment credits or took classes at a community college, pay attention to what is currently listed on your Advising Transcript in Banner. If you see some classes but not all - you need to request an additional transcript be sent. IF you do not see any courses, you will want to contact the community college and request a transcript. Once again do not enroll in classes that you are expecting to get credit for.
    - Not sure what courses will come in as? Use Transfer Credit Advisor Tool:
      - https://selfservice.uncc.edu/pls/BANPROD/ywsktrar.p_transfer_credit_advisor

- *I applied as one major, but now want to major in something else. How do I get that updated/changed?*
  - In order to have your major updated, you will need to reach out to Undergraduate Admissions. They will ask you your name and student ID number and evaluate if you can be changed.

- *Can I add a minor?*
  - No, students can not add a minor until after the first few weeks of the semester. Since minors are typically 15-18 credit hours, it is recommended that you first take an introduction course in that area before going through the declaration process. Students are most likely to declare a minor during their second or third year.

- *I would like to pursue a Double Major, how do I get it added?*
  - New students are not allowed to double major until we get past the first few weeks of the semester.
  - If you are planning to be a double major with one of the following majors: Computer Science, Business, or Psychology. We recommend that you add that major first and then add Data Science. Please be sure to email us at sds-advising@uncc.edu so we can reach out during the fall semester to add the double major. **You will also need to add DTSC 1301 and DTSC 1302 which is a fall semester only course to your schedule along with STAT 1222.**

- *What is a common first-year schedule for a Data Science student?*
  - Most first semester Data Science students will take 15 or 16 credit hours and included the following courses:
    - DTSC 1301
    - DTSC 1302
    - STAT 1222
    - General Education Course
    - General Education Course
  - It is important to keep in mind that this might vary by student, every student is a little different.