Data Science- Associate in Science (2023-2024 Catalog)

Developmental Education Courses *(if required)*

complete	Course #	Course Title
☐	ACLS050	Introduction to Academic Literacy
☐	ENGL027	Writing Skills Workshop
☐	MATH020	Pre-Algebra
☐	MATH022	Elementary Algebra
☐	MATH026	Intermediate Algebra

Placement in English and/or Mathematics must first be determined by official transcripts and/or placement testing. Developmental education courses are only taken if needed based on a student's placement; these courses would be in addition to the courses outlined below. Developmental education courses may extend the timeline to degree completion.

Transferring credits into NCC: Official transcripts are required; awarded credit will appear in Workday's Academic Progress.

	complete	Course #	Course Title	Credits	Pre-requisites / Co-requisites
Semester 1	☐	COLS101	College Success	1	Exempt: COLS150 or 12+ transfer credits & 2.0 GPA
	☐	ENGL101	English I	3	PRE: ENGL Placement Policy
	☐	CMTH102	Introduction to Communication	3	
	☐	MATH150	Introductory Statistics (QL)(D)	3	PRE: MATH022 or Placement Policy
		DATS101	Principles of Data Science	3	PRE or CO: MATH150
	☐	CISC101	Intoduction to Computers	3	
			Total Semester Credits:	16	
Semester 2	☐	MATH207	Statistical Methods	3	PRE: MATH150 with C or better
	☐	ENGL151R	English II (Report Writing)	3	PRE: ENGL101
	☐	CISC115	Computer Science I	4	PRE: MATH026 with C or better or Math Placement Policy
	☐	PHIL202G	Ethics & Moral Problems	3	PRE: ENGL101
	☐		SIT or SSHB Gen Ed Elective	3	
			Total Semester Credits:	16	
Semester 3	☐	MATH180	Calculus I	4	PRE: MATH145 or 160 with C or better or Placement Policy
	☐	DATS201	Data Visualization	3	PRE: DATS101 with C or better
	☐	CISC150	Object-Oriented Programming	4	PRE: CISC115 or CISC128
	☐		Science Elective	4	
			Total Semester Credits:	15	
Semester 4	☐	MATH202	Discrete Mathematics	3	PRE: MATH176 or 180 with a C or better
	☐	DATS250	Data Science Capstone	4	PRE: DATS201 and MATH207 with C or better
	☐	CISC270	Database Systems	4	PRE: CISC100 or CISC115
	☐		SIT or SSHB Gen Ed Elective	3	
			Total Semester Credits:	14	
			Total Degree Credits	61	

General Education Requirements

	complete	Course #	Course Title
	☐	MATH150	Diversity
	☐	PHIL202G	Writing Intensive
	☐		Writing Intensive

Program Notes:
Students must take two General Education Electives (SIT or SSHB), one in a Writing Intensive (WI) sections.

Writing Intensive course codes end in G. Examples: PSYC103G (PSYC103 is not writing intensive). Please pay attention to the option you select. For example, if you are looking for an SSHB writing intensive course, look for one that ends in G via the SSHB course tag.

How to search for general education electives:
In Workday, use the corresponding **Course Tag** filter to see the available options.

Scientific Study of Human Behavior = SSHB
Socitieties and Institutions Over Time = SIT

+It is in the best interest of the student to take a higher level Science with a lab component to fulfill their Science elective requirement.

+Students who are not eligible for required Math courses beginning in their first semester will push back the overall sequencing for Data Science courses and require an extra semester or semesters.

*It is the student's responsibility to be knowledgeable of NCC graduation requirements and, if applicable, to verify transfer requirements with the 4-year institution. Courses listed on the program map are based upon the assumption that prerequisites and courses taken in previous semesters will be successfully completed.