

DATA ANALYTICS CERTIFICATE

DATA-C-DAT

Subject: Administered by the School of Computing.

Plan: Consists of 15.00 units as described below.

Program: The Plan will lead to a Certificate in Data Analytics.

Note: Requirements for this program have been modified.

Please consult the 2023-2024 (<https://queensu-ca-public.courseleaf.com/archive/2023-2024/>)*Calendar* for the previous requirements.

Code	Title	Units
1. Core		
A. Complete the following:		
CISC 251	Data Analytics	3.00
CISC 351	Advanced Data Analytics	3.00
CISC 451	Topics in Data Analytics	3.00
B. Complete 3.00 units from the following:		3.00
STAT 263	Introduction to Statistics	
STAT 268	Statistics and Probability I	
	STAT_Options	
2. Option		
A. Complete 3.00 units from the following:		3.00
BIOL 343	Data Analysis for Biologists	
CISC 181	Digital Societies	
CISC 432	Advanced Data Management Systems	
EMPR 370	Human Resource Analytics	
PATH 411	Applied Data Science in Molecular Medicine	
PSYC 301	Advanced Statistical Inference	
SOCY 284	Introduction to Digital Sociology	
SOCY 309	Surveillance and Society	
STAT 269	Statistics and Probability II	
STAT 466	Statistical Programming with SAS and Applications	
Total Units		15.00

3. Notes

A. All **2.A.** Option Courses require discipline-specific prerequisites.

B. No more than 6.00 units of core and option courses may be counted toward the requirements of both the Certificate and another program.

C. No more than 6.00 units of core and option courses may be transfer credits from outside Queen's University.

Data Analytics Course List

The following list contains courses offered through other Departments. In accordance with Academic Regulation **2.6** (Access to Classes), students do not have enrolment priority in all of these courses. Access to these courses may only be made available during the Open Enrolment period, and then only if space permits.

STAT_Options

Code	Title	Units
Statistics Course Options		
BIOL 243	Introduction to Statistics	3.00
CHEE 209	Analysis of Process Data ¹	3.50
COMM 162	Managerial Statistics	3.00
ECON 250	Introduction to Statistics	3.00
GPHY 247	Introduction to Statistics	3.00
KNPE 251	Introduction to Statistics	3.00
NURS 323	Introduction to Statistics	3.00
POLS 285	Introduction to Statistics	3.00
PSYC 202	Statistics in Psychology	3.00
SOCY 211	Introduction to Statistics	3.00
STAM 200	Introduction to Statistics	3.00
STAT 263	Introduction to Statistics	3.00

¹ Note that the unit weighting system in Smith Engineering differs from that in the Faculty of Arts and Science. Therefore, upon acceptance of any course from Smith Engineering, the unit weighting towards Arts and Science degree requirements shall be at the discretion of the Associate Dean (Academic). Usually, a one-term course shall count as 3.00 units and a two-term course as 6.00 units.