

# Program structure and sequence plan

| BN-13150 Master of Data Analytics (Professional) |                                                        |                         |            |
|--------------------------------------------------|--------------------------------------------------------|-------------------------|------------|
| January Intake                                   |                                                        |                         |            |
| Semester 1                                       | January 2027                                           | Assumed Knowledge       | Requisites |
| DTSC71-200                                       | Data Science                                           |                         |            |
| STAT71-112                                       | Quantitative Methods                                   |                         |            |
| AMG                                              | Choose a subject from the Analytics or Applied options |                         |            |
|                                                  |                                                        |                         |            |
| Semester 2                                       | May 2027                                               | Assumed Knowledge       | Requisites |
| ECON71-200                                       | Linear Models and Applied Econometrics                 |                         |            |
| AMG                                              | Choose a subject from the Analytics or Applied options |                         |            |
| AMG                                              | Choose a subject from the Analytics or Applied options |                         |            |
|                                                  |                                                        |                         |            |
| Semester 3                                       | September 2027                                         | Assumed Knowledge       | Requisites |
| DTSC71-302                                       | Statistical Learning and Regression Models             | DTSC71-200   ECON71-200 |            |
| DTSC71-300                                       | Infrastructure for Data Analytics                      | STAT71-112              |            |
| DTSC71-306                                       | Modern Machine Learning Models                         | DTSC71-100   DTSC71-200 |            |
|                                                  |                                                        |                         |            |
| Semester 1                                       | January 2028                                           | Assumed Knowledge       | Requisites |
| DTSC71-304                                       | Applied Data Analytics Project                         |                         | DTSC71-302 |
| DTSC71-301                                       | Deep Learning Through Neural Networks                  | STAT71-112              | DTSC71-200 |
| AMG                                              | Choose a subject from the Analytics or Applied options |                         |            |
|                                                  |                                                        |                         |            |
| Semester 2                                       | May 2028                                               | Assumed Knowledge       | Requisites |
| Professional Option                              | Student must choose BUSN71-701 or BUSN71-705           |                         |            |
|                                                  |                                                        |                         |            |
|                                                  |                                                        |                         |            |
|                                                  |                                                        |                         |            |
| BN-13150 Master of Data Analytics (Professional) |                                                        |                         |            |
| September Intake                                 |                                                        |                         |            |
| Semester 1                                       | September 2027                                         | Assumed Knowledge       | Requisites |
| DTSC71-200                                       | Data Science                                           |                         |            |
| STAT71-112                                       | Quantitative Methods                                   |                         |            |
| AMG                                              | Choose a subject from the Analytics or Applied options |                         |            |
|                                                  |                                                        |                         |            |
| Semester 2                                       | January 2028                                           | Assumed Knowledge       | Requisites |
| DTSC71-301                                       | Deep Learning Through Neural Networks                  | STAT71-112              | DTSC71-200 |
| DTSC71-300                                       | Infrastructure for Data Analytics                      | STAT71-112              |            |
| AMG                                              | Choose a subject from the Analytics or Applied options |                         |            |
|                                                  |                                                        |                         |            |
| Semester 3                                       | May 2028                                               | Assumed Knowledge       | Requisites |
| ECON71-200                                       | Linear Models and Applied Econometrics                 |                         |            |
| DTSC71-302                                       | Statistical Learning and Regression Models             | DTSC71-200   ECON71-200 |            |
| AMG                                              | Choose a subject from the Analytics or Applied options |                         |            |
|                                                  |                                                        |                         |            |
| Semester 1                                       | September 2028                                         | Assumed Knowledge       | Requisites |
| DTSC71-304                                       | Applied Data Analytics Project                         |                         | DTSC71-302 |
| DTSC71-306                                       | Modern Machine Learning Models                         | DTSC71-100   DTSC71-200 |            |
| AMG                                              | Choose a subject from the Analytics or Applied options |                         |            |
|                                                  |                                                        |                         |            |
| Semester 2                                       | January 2029                                           | Assumed Knowledge       | Requisites |
| Professional Option                              | Student must choose BUSN71-701 or BUSN71-705           |                         |            |
|                                                  |                                                        |                         |            |
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| Available J   S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Program Overview                                                                             | Cricos 098314E | Version 1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------|-----------|
| Required Subjects 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Students must complete the following 40 CP of subjects.                                      |                |           |
| DTSC71-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Data Science                                                                                 | J   S          | 10        |
| DTSC71-300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Infrastructure for Data Analytics                                                            | J   S          | 10        |
| DTSC71-301                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Deep Learning Through Neural Networks                                                        | J   M          | 10        |
| DTSC71-302                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Statistical Learning and Regression Models                                                   | M   S          | 10        |
| DTSC71-304                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Applied Data Analytics Project                                                               | J   S          | 10        |
| DTSC71-306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Modern Machine Learning Models                                                               | S              | 10        |
| ECON71-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Linear Models and Applied Econometrics                                                       | J   M   S      | 10        |
| STAT71-112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Quantitative Methods                                                                         | J   M   S      | 10        |
| Professional Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Student must choose BUSN71-701 or BUSN71-705                                                 |                |           |
| BUSN71-701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Professional Portfolio                                                                       | J   M   S      | 45        |
| BUSN71-705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Professional Development                                                                     | J   M   S      | 45        |
| Analytics Option                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Students must choose twenty credit points (20CP) of the following Analytics Option subjects. |                |           |
| ACSC71-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Mathematical Statistics                                                                      | M   S          | 10        |
| ACSC71-306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Stochastic Processes                                                                         | J   S          | 10        |
| ACSC71-307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Survival Analysis                                                                            | M   S          | 10        |
| DTSC71-100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Business Analytics Coding                                                                    | J   S          | 10        |
| DTSC71-307                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Advanced Statistical Learning Models                                                         | S              | 10        |
| ECON71-300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Advanced Econometrics                                                                        | S              | 10        |
| Applied Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Students must choose twenty credit points (20CP) of the following Applied Option subjects.   |                |           |
| ACCT71-211                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Accounting Information Systems                                                               | J   S          | 10        |
| ACCT71-306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Data Analytics for Accountants                                                               | J   S          | 10        |
| DTSC71-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cyber and Fraud Threats in Organisations                                                     | S              | 10        |
| DTSC71-305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Financial Trading Systems                                                                    | S              | 10        |
| HPER71-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Evidence Based Practice and Policy                                                           | J              | 10        |
| HPER71-119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Leading Innovation in Healthcare                                                             | J              | 10        |
| MKTG71-303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Market Research                                                                              | M   S          | 10        |
| MKTG71-315                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Marketing Analytics                                                                          | M   S          | 10        |
| PSYC71-409                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Multivariate Research Methods                                                                | J   S          | 10        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                              |                |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                              |                |           |
| Available J   S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Program Overview                                                                             | #N/A           | #N/A      |
| <p>The program comprises 125 credit points of required subjects, a combination of Analytics, Minor, or Elective Options, and a 45-credit-point Professional Option delivered across the January, May, and September intakes. It follows a carefully structured sequence of data science, quantitative methods, econometrics, machine learning, data engineering, and applied analytics subjects designed to develop the advanced capability expected in contemporary data-driven practice and to support progression toward professional roles in analytics, modelling, business intelligence, and data-enabled decision-making.</p> |                                                                                              |                |           |
| <p>Students begin with core foundations including Data Science, Quantitative Methods, Linear Models and Applied Econometrics, Statistical Learning and Regression Models, Infrastructure for Data Analytics, Modern Machine Learning Models, Deep Learning Through Neural Networks, and the Applied Data Analytics Project, alongside subjects selected from the Analytics, Minor, or Elective Options. The program concludes with the 45-credit-point Professional Option.</p>                                                                                                                                                      |                                                                                              |                |           |
| <b>Assumed Knowledge</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                              |                |           |
| <p>Assumed knowledge is the minimum level of knowledge of a subject area that students are assumed to have acquired through previous study. It is the responsibility of students to ensure they meet the assumed knowledge expectations of a specified subject. Students who do not possess this prior knowledge are strongly recommended against enrolling and do so at their own risk. No concessions will be made for students' lack of prior knowledge. Please check for all</p>                                                                                                                                                 |                                                                                              |                |           |
| <b>Opportunities</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                              |                |           |
| <p>Students may have the opportunity to participate in an international study tour experience or internship as a general elective. Those interested should consult an Enrolment Officer in Student Assist for guidance and to check eligibility requirements (e.g., GPA, language proficiency, prerequisites).</p>                                                                                                                                                                                                                                                                                                                   |                                                                                              |                |           |
| <b>Additional Notes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                              |                |           |
| <p>*Please note that the Professional Portfolio or Professional Development subject is a 20-week, 45-credit point subject and is taken in the last semester of the program once all other coursework subjects have been completed. The Career Development Centre will provide assistance in choosing the relevant professional subject prior to your last semester.</p>                                                                                                                                                                                                                                                              |                                                                                              |                |           |