

**Bachelor of Science (Business Analytics)
with Minor in Innovation & Design**

Cohort AY2024/2025

Course Requirements	Units
Common Curriculum	
BT1101 Introduction to Business Analytics ¹	4
CS1010A/S Programming Methodology ¹	4
GE: Critique and Expression ²	4
GE: Communities and Engagement ²	4
GE: Cultures and Connections ²	4
GE: Singapore Studies ²	4
IS1108 Digital Ethics and Data Privacy	4
Interdisciplinary Courses ³	8
Group A course for Minor ³ (double-counted as Cross-disciplinary Course)	4
Sub-total for Common Curriculum	40
Programme Requirements	
MA1311 Matrix Algebra <u>or</u> MA1522 Linear Algebra for Computing	4
MA1521 Calculus for Computing <u>or</u> MA2002 Calculus	4
BT2101 Econometrics Modeling for Business Analytics	4
BT2102 Data Management and Visualisation	4
CS2030 Programming Methodology II	4
CS2040 Data Structures and Algorithms	4
IS2101 Business and Technical Communication	4
ST2334 Probability and Statistics	4
BT3103 Application Systems Development for Business Analytics	4
IS3103 Information Systems Leadership and Communication	4
BT4103 Business Analytics Capstone Project	8
Programme electives	20
IS4010 Industry Internship Programme <u>or</u> CP3880 Advanced Technology Attachment Programme <u>or</u> BT4101 B.Sc. Dissertation	12
Sub-total for Programme Requirements	80
Unrestricted Electives	
Group B course for Minor	4
CDE3301 Ideas to Proof-of-Concept (over 2 consecutive semesters)	12
Other unrestricted electives	24
Sub-total for Unrestricted Electives	40
Total	160

Notes:

- ¹ Data Literacy and Digital Literacy pillars are satisfied by BT1101 and CS1010S, respectively.
- ² Students may read equivalent courses in NUS College (NUSC), University Town College Programme (UTCP), and Ridge View Residential Programme (RVRC).
- ³ Students in this Minor are highly recommended to read DTK1234 Design Thinking or EG1311 Design and Make as an Interdisciplinary Course before taking the Group A course.

Recommended semester schedule

(for students who may want to upgrade to a Second Major)

Semester 1	Units	Semester 2	Units
BT1101 Introduction to Business Analytics	4	BT2102 Database Management and Visualization	4
CS1010A/S Programming Methodology	4	CS2030 Programming Methodology II	4
IS1108 Digital Ethics and Data Privacy	4	IS2101 Business and Technical Communication	4
MA1311 Matrix Algebra or MA1522 Linear Algebra for Computing	4	MA1521 Calculus for Computing or MA2002 Calculus	4
Interdisciplinary Course 1 [^]	4	Group A/B course for Minor	4
Sub-total	20	Sub-total	20

Semester 3	Units	Semester 4	Units
BT2101 Econometrics Modeling for Business Analytics	4	BT3103 Application Systems Development for Business Analytics	4
CS2040 Data Structures and Algorithms	4	IS3103 Information Systems Leadership and Communication	4
ST2334 Probability and Statistics	4	GE	4
GE	4	GE	4
Group A/B course for Minor	4	CDE3301 Ideas to Proof-of-Concept	6
Sub-total	20	Sub-total	22

Semester 5	Units	Semester 6	Units
CDE3301 Ideas to Proof-of-Concept	6	IS4010 Industry Internship Programme	12
BT4103 Business Analytics Capstone Project	8		
Interdisciplinary Course 2	4		
GE*	4		
Sub-total	22	Sub-total	12

Semester 7	Units	Semester 8	Units
Programme Elective 1	4	Programme Elective 4	4
Programme Elective 2	4	Programme Elective 5	4
Programme Elective 3	4	UE	4
UE	4	UE	4
UE	4	UE	4
UE	4		
Sub-total	24	Sub-total	20

[^] Students in this Minor are highly recommended to read DTK1234 Design Thinking or EG1311 Design and Make as an Interdisciplinary Course before taking the Group A course.

* Students in UTCP and RVRC will need to overload in Semesters 2 to 4 in order to clear this course earlier.

Recommended semester schedule

(for students who are not planning to upgrade to a Second Major)

Semester 1	Units	Semester 2	Units
BT1101 Introduction to Business Analytics	4	BT2102 Database Management and Visualization	4
CS1010A/S Programming Methodology	4	CS2030 Programming Methodology II	4
IS1108 Digital Ethics and Data Privacy	4	IS2101 Business and Technical Communication	4
MA1311 Matrix Algebra or MA1522 Linear Algebra for Computing	4	MA1521 Calculus for Computing or MA2002 Calculus	4
GE	4	GE	4
Sub-total	20	Sub-total	20

Semester 3	Units	Semester 4	Units
BT2101 Econometrics Modeling for Business Analytics	4	BT3103 Application Systems Development for Business Analytics	4
CS2040 Data Structures and Algorithms	4	IS3103 Information Systems Leadership and Communication	4
ST2334 Probability and Statistics	4	GE	4
GE	4	Interdisciplinary Course 2	4
Interdisciplinary Course 1 ^	4	Group A course for Minor	4
		Group B course for Minor	4
Sub-total	20	Sub-total	24

Semester 5	Units	Semester 6	Units
IS4010 Industry Internship Programme	12	CDE3301 Ideas to Proof-of-Concept	6
		Programme Elective 1	4
		Programme Elective 2	4
		UE	4
		UE	4
Sub-total	12	Sub-total	22

Semester 7	Units	Semester 8	Units
CDE3301 Ideas to Proof-of-Concept	6	Programme Elective 4	4
BT4103 Business Analytics Capstone Project	8	Programme Elective 5	4
Programme Elective 3	4	UE	4
UE	4	UE	4
		UE	4
Sub-total	22	Sub-total	20

^ Students in this Minor are highly recommended to read DTK1234 Design Thinking or EG1311 Design and Make as an Interdisciplinary Course before taking the Group A course.