Innovation & Design Programme
NUS College of Design and Engineering

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

Cohort AY2022/2023

Modular Requirements	Modular Credits (MCs)
Common Curriculum	
BT1101 Introduction to Business Analytics [1]	4
CS1010S 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 Modules [3]	8
Group A module for Minor [3] (double-counted as Cross-disciplinary Module)	4
Sub-total for Common Curriculum	**40**
Programme Requirements	
MA1521 Calculus for Computing or MA2002 Calculus	4
MA1311 Matrix Algebra or MA2001 Linear Algebra I	4
BT2101 Econometrics Modeling for Business Analytics	4
BT2102 Data Management and Visualisation	4
ST2334 Probability and Statistics	4
CS2030 Programming Methodology II	4
CS2040 Data Structures and Algorithms	4
IS2101 Business and Technical Communication	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 or CP3880 Advanced Technology Attachment Programme or BT4101 B.Sc. Dissertation	12
Sub-total for Programme Requirements	**80**
Unrestricted Electives	
Group B module for Minor	4
EG3301R DCP Project (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 modules in USP/NUSC, UTCP, and RVRC.

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

(updated 16 June 2022)

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

Semester 1	MCs	Semester 2	MCs
BT1101 Introduction to Business Analytics	4	BT2102 Database Management and Visualization	4
CS1010S 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 MA2001 Linear Algebra I	4	MA1312 Calculus with Applications or MA1521 Calculus for Computing	4
Interdisciplinary Module 1 ^	4	Group A module for Minor	4
Sub-total	**20**	**Sub-total**	**20**

Semester 3	MCs	Semester 4	MCs
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 B module for Minor	4	EG3301R DCP Project	6
Sub-total	**20**	**Sub-total**	**22**

Semester 5	MCs	Semester 6	MCs
EG3301R DCP Project	6	IS4010 Industry Internship Programme	12
BT4103 Business Analytics Capstone Project	8		
Interdisciplinary Module 2	4		
GE*	4		
Sub-total	**22**	**Sub-total**	**12**

Semester 7	MCs	Semester 8	MCs
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 Module before taking the Group A module.

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

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

Semester 1	MCs	Semester 2	MCs
BT1101 Introduction to Business Analytics	4	BT2102 Database Management and Visualization	4
CS1010S 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 MA2001 Linear Algebra I	4	MA1312 Calculus with Applications or MA1521 Calculus for Computing	4
GE	4	GE	4
Sub-total	**20**	**Sub-total**	**20**

Semester 3	MCs	Semester 4	MCs
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 Module 2	4
Interdisciplinary Module 1 ^	4	Group A module for Minor	4
		Group B module for Minor	4
Sub-total	**20**	**Sub-total**	**24**

Semester 5	MCs	Semester 6	MCs
IS4010 Industry Internship Programme	12	EG3301R DCP Project	6
		Programme Elective 1	4
		Programme Elective 2	4
		UE	4
		UE	4
Sub-total	**12**	**Sub-total**	**22**

Semester 7	MCs	Semester 8	MCs
EG3301R DCP Project	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 Module before taking the Group A module.

(updated 16 June 2022)