

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

**Cohort AY2021/2022**

<b>Modular Requirements</b>	<b>Modular Credits (MCs)</b>
<b>University Level Requirements <sup>1</sup></b>	
GE1: Critique and Expression <sup>2</sup>	4
GE2: Communities and Engagement <sup>2</sup>	4
GE3: Cultures and Connections <sup>2</sup>	4
GE4: Singapore Studies <sup>2</sup>	4
<b>Sub-total for University Level Requirements</b>	<b>16</b>
<b>Programme Requirements</b>	
BT1101 Introduction to Business Analytics <sup>1</sup>	4
CS1010S Programming Methodology <sup>1</sup>	4
IS1103 Ethics in Computing	4
MA1521 Calculus for Computing <u>or</u> MA2002 Calculus	4
MA1311 Matrix Algebra <u>or</u> MA2001 Linear Algebra I	4
BT2101 Econometrics Modeling for Business Analytics	4
BT2102 Data Management and Visualisation	4
BT2103 Optimization Methods in Business Analytics	4
BT2201 Business Concepts and Metrics for Analytics	4
ST2334 Probability and Statistics	4
CS2030 Programming Methodology II	4
CS2040 Data Structures and Algorithms	4
IS2101 Business and Technical Communication	4
BT3102 Computational Methods for Business Analytics	4
BT3103 Application Systems Development for Business Analytics	4
IS3103 Information Systems Leadership and Communication	4
BT4103 Business Analytics Capstone Project	8
Programme electives	24
IS4010 Industry Internship Programme <u>or</u> BT4101 BSc Dissertation	12
<b>Sub-total for Programme Requirements</b>	<b>108</b>
<b>Unrestricted Electives</b>	
Group A module for Minor	4
Group B module for Minor	4
EG3301R DCP Project (over 2 consecutive semesters)	12
Other unrestricted electives	16
<b>Sub-total for Unrestricted Electives</b>	<b>36</b>
<b>Total</b>	<b>160</b>

Notes:

- <sup>1</sup> Data Literacy and Digital Literacy pillars are satisfied by BT1101 and CS1010S, respectively.
- <sup>2</sup> Students may read equivalent modules in USP, UTCP, and RVRC.

Recommended semester schedule

Semester 1	MCs	Semester 2	MCs
BT1101 Introduction to Business Analytics	4	BT2102 Database Management and Visualization	4
CS1010S Programming Methodology	4	BT2201 Business Concepts and Metrics for Analytics	4
IS1103 Ethics in Computing	4	CS2030 Programming Methodology II	4
MA1311 Matrix Algebra or MA2001 Linear Algebra I	4	IS2101 Business and Technical Communication	4
GE1	4	MA1312 Calculus with Applications or MA1521 Calculus for Computing	4
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>20</b>

Semester 3	MCs	Semester 4	MCs
BT2101 Econometrics Modeling for Business Analytics	4	BT3102 Computational Methods for Business Analytics	4
BT2103 Optimization Methods in 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	GE2	4
Group A module for Minor	4	EG3301R DCP Project	6
Group B module for Minor	4		
<b>Sub-total</b>	<b>24</b>	<b>Sub-total</b>	<b>22</b>

Semester 5	MCs	Semester 6	MCs
EG3301R DCP Project	6	IS4010 Industry Internship Programme	12
BT4103 Business Analytics Capstone Project	8	Programme Elective 2	4
Programme Elective 1	4	Programme Elective 3	4
GE3*	4		
<b>Sub-total</b>	<b>22</b>	<b>Sub-total</b>	<b>20</b>

Semester 7	MCs	Semester 8	MCs
Programme Elective 4	4	UE	4
Programme Elective 5	4	UE	4
Programme Elective 6	4	UE	4
GE4 *	4	UE	4
<b>Sub-total</b>	<b>16</b>	<b>Sub-total</b>	<b>16</b>

\* Students in UTCP and RVRC will need to overload in Semesters 2 to 4 in order to clear these modules earlier.