

**Bachelor of Computing (Information Systems)  
with Minor in Innovation & Design**

**Cohort AY2023/2024**

<b>Course Requirements</b>	<b>Units</b>
<b>Common Curriculum</b>	
BT1101 Introduction to Business Analytics <sup>1</sup>	4
CS1101J Programming Methodology <sup>1</sup>	4
GE: Critique and Expression <sup>2</sup>	4
GE: Communities and Engagement <sup>2</sup>	4
GE: Cultures and Connections <sup>2</sup>	4
GE: Singapore Studies <sup>2</sup>	4
IS1108 Digital Ethics and Data Privacy	4
Interdisciplinary Courses <sup>3</sup>	8
Group A course for Minor <sup>3</sup> (double-counted as Cross-disciplinary Course)	4
<b>Sub-total for Common Curriculum</b>	<b>40</b>
<b>Programme Requirements</b>	
BT2102 Database Management and Visualization <u>or</u> CS2102 Database Systems	4
CS2030 Programming Methodology II	4
CS2040 Data Structures and Algorithms	4
IS2101 Business and Technical Communication	4
IS2102 Enterprise Systems Architecture and Design	4
IS2103 Enterprise Systems Server-side Design and Development	4
IS3103 Information Systems Leadership and Communication	4
IS3106 Enterprise Systems Interface Design and Development	4
IS4103 Information Systems Capstone Project	8
MA1312 Calculus with Applications <u>or</u> MA1521 Calculus for Computing <u>or</u> MA2002 Calculus	4
ST2334 Probability and Statistics	4
Programme electives	20
IS4010 Industry Internship Programme <u>or</u> CP4101 B.Comp. Dissertation	12
<b>Sub-total for Programme Requirements</b>	<b>80</b>
<b>Unrestricted Electives</b>	
Group B course for Minor	4
CDE3301/EG3301R Ideas to Proof-of-Concept (over 2 consecutive semesters)	12
Other unrestricted electives	24
<b>Sub-total for Unrestricted Electives</b>	<b>40</b>
<b>Total</b>	<b>160</b>

Notes:

- <sup>1</sup> Data Literacy and Digital Literacy pillars are satisfied by BT1101 and CS1101J, respectively.
- <sup>2</sup> Students may read equivalent courses in NUS College (NUSC), University Town College Programme (UTCP), and Ridge View Residential Programme (RVRC).
- <sup>3</sup> 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
MA1312 Calculus with Applications <u>or</u> MA1521 Calculus for Computing <u>or</u> MA2002 Calculus	4	IS2101 Business and Technical Communication	4
CS1101J Programming Methodology	4	BT1101 Introduction to Business Analytics	4
IS1108 Digital Ethics and Data Privacy	4	CS2030 Programming Methodology II	4
GE	4	ST2334 Probability and Statistics	4
Interdisciplinary Course 1 <sup>^</sup>	4	Group A/B course for Minor	4
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>20</b>

Semester 3	Units	Semester 4	Units
BT2102 Database Management and Visualization	4	IS3103 Information Systems Leadership and Communication	4
CS2040 Data Structures and Algorithms	4	IS3106 Enterprise Systems Interface Design and Development	4
IS2102 Enterprise Systems Architecture and Design	4	GE	4
IS2103 Enterprise Systems Server-side Design and Development	4	GE	4
Group A/B course for Minor	4	CDE3301/EG3301R Ideas to Proof-of- Concept	6
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>22</b>

Semester 5	Units	Semester 6	Units
CDE3301/EG3301R Ideas to Proof-of- Concept	6	IS4010 Industry Internship Programme	12
Interdisciplinary Course 2	4		
Programme Elective 1	4		
Programme Elective 2	4		
GE *	4		
<b>Sub-total</b>	<b>22</b>	<b>Sub-total</b>	<b>12</b>

Semester 7	Units	Semester 8	Units
IS4103 Information Systems Capstone Project	8	Programme Elective 4	4
Programme Elective 3	4	Programme Elective 5	4
UE	4	UE	4
UE	4	UE	4
UE	4	UE	4
<b>Sub-total</b>	<b>24</b>	<b>Sub-total</b>	<b>20</b>

<sup>^</sup> 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
MA1312 Calculus with Applications <u>or</u> MA1521 Calculus for Computing <u>or</u> MA2002 Calculus	4	IS2101 Business and Technical Communication	4
CS1101J Programming Methodology	4	BT1101 Introduction to Business Analytics	4
IS1108 Digital Ethics and Data Privacy	4	CS2030 Programming Methodology II	4
GE	4	ST2334 Probability and Statistics	4
GE	4	GE	4
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>20</b>

Semester 3	Units	Semester 4	Units
BT2102 Database Management and Visualization	4	IS3103 Information Systems Leadership and Communication	4
CS2040 Data Structures and Algorithms	4	IS3106 Enterprise Systems Interface Design and Development	4
IS2102 Enterprise Systems Architecture and Design	4	GE	4
IS2103 Enterprise Systems Server-side Design and Development	4	UE	4
Interdisciplinary Course 1 ^	4	Group A course for Minor	4
		Group B course for Minor	4
<b>Sub-total</b>	<b>20</b>	<b>Sub-total</b>	<b>24</b>

Semester 5	Units	Semester 6	Units
IS4010 Industry Internship Programme	12	CDE3301/EG3301R Ideas to Proof-of- Concept	6
		Interdisciplinary Course 2	4
		Programme Elective 1	4
		Programme Elective 2	4
		UE	4
<b>Sub-total</b>	<b>12</b>	<b>Sub-total</b>	<b>22</b>

Semester 7	Units	Semester 8	Units
CDE3301/EG3301R Ideas to Proof-of- Concept	6	Programme Elective 4	4
IS4103 Information Systems Capstone Project	8	Programme Elective 5	4
Programme Elective 3	4	UE	4
UE	4	UE	4
		UE	4
<b>Sub-total</b>	<b>22</b>	<b>Sub-total</b>	<b>20</b>

^ 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.