

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

Cohort AY2021/2022

| Modular Requirements | Modular Credits (MCs) |
|--|------------------------------|
| University Level Requirements ¹ | |
| GE1: Critique and Expression ² | 4 |
| GE2: Communities and Engagement ² | 4 |
| GE3: Cultures and Connections ² | 4 |
| GE4: Singapore Studies ² | 4 |
| Sub-total for University Level Requirements | 16 |
| Programme Requirements | |
| BT1101 Introduction to Business Analytics | 4 |
| BT2102 Database Management and Visualization <u>or</u> CS2102 Database Systems | 4 |
| CS1101J Programming Methodology ¹ | 4 |
| CS2030 Programming Methodology II | 4 |
| CS2040 Data Structures and Algorithms | 4 |
| IS1103 Ethics in Computing | 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 |
| IS3107 Data Engineering | 4 |
| IS4103 Information Systems Capstone Project | 8 |
| IS4301 Agile IT with DevOps | 4 |
| MA1312 Calculus with Applications <u>or</u> MA1521 Calculus for Computing <u>or</u> MA2002 Calculus | 4 |
| ST2334 Probability and Statistics | 4 |
| Programme electives | 28 |
| IS4010 Industry Internship Programme <u>or</u> CP4101 BComp Dissertation ³ | 12 |
| Sub-total for Programme Requirements | 108 |
| Unrestricted Electives | |
| Group A module for Minor | 4 |
| Group B module for Minor | 4 |
| EG3301R DCP Project (over 2 consecutive semesters) | 12 |
| Other unrestricted electives | 16 |
| Sub-total for Unrestricted Electives | 36 |
| Total | 160 |

Notes:

- ¹ Data Literacy and Digital Literacy pillars are satisfied by BT1101 and CS1101J, respectively.
- ² Students may read equivalent modules in USP/NUSC, UTP, and RVRC.

Recommended semester schedule

| Semester 1 | MCs | Semester 2 | MCs |
|---|-----------|--|-----------|
| MA1312 Calculus with Applications or MA1521 Calculus for Computing | 4 | IS2101 Business and Technical Communication | 4 |
| CS1101J Programming Methodology | 4 | BT1101 Introduction to Business Analytics | 4 |
| IS1103 Ethics in Computing | 4 | CS2030 Programming Methodology II | 4 |
| GE1 | 4 | ST2334 Probability and Statistics | 4 |
| GE2 | 4 | Group A module for Minor | 4 |
| Sub-total | 20 | Sub-total | 20 |

| Semester 3 | MCs | Semester 4 | MCs |
|---|-----------|---|-----------|
| 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 | IS3107 Data Engineering | 4 |
| IS2103 Enterprise Systems Server-side Design and Development | 4 | GE3 | 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 |
| Programme Elective 1 | 4 | Programme Elective 4 | 4 |
| Programme Elective 2 | 4 | Programme Elective 5 | 4 |
| Programme Elective 3 | 4 | | |
| GE4 * | 4 | | |
| Sub-total | 22 | Sub-total | 20 |

| Semester 7 | MCs | Semester 8 | MCs |
|--|-----------|----------------------|-----------|
| IS4103 Information Systems Capstone Project | 8 | Programme Elective 6 | 4 |
| IS4301 Agile IT with DevOps | 4 | Programme Elective 7 | 4 |
| UE | 4 | UE | 4 |
| UE | 4 | UE | 4 |
| Sub-total | 20 | Sub-total | 16 |

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