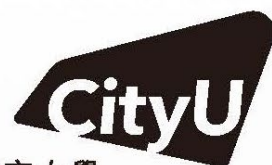


College of Computing

計算學院

Department of Data Science

數據科學系



香港城市大學
City University of Hong Kong

Bachelor of Science in Data Science

理學士(數據科學)



Student Handbook
2025-2026

(Please note that the information given in this Handbook is accurate at the time of printing in September 2025. Changes to the information may be made from time to time without prior notification.)

For further information, please contact:

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**BACHELOR OF SCIENCE IN
DATA SCIENCE
(BSC DS)**

Student Handbook (2025-2026)

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1 AIMS OF MAJOR

This major is to provide graduates in data science with essential training of quantitative knowledge, statistical theory, machine learning technology for the effective use and analysis of big and complex data for real-world applications. The primal goal of this data science major is to train a generation of students who are equally versed in data processing, data analysis, predictive modeling, and computational techniques and enable them the skills for the challenges in future that involve making sense of complex data to realize planning and decision making. The major offers a suite of courses and programs to equip and empower students of quantitative background to become professionals and practitioners of rigorous, actionable, and ethical data science. To this end, besides providing rigorous education about data science models and methods, the major also emphasizes the interdisciplinary training and the expertise of particular subject domains as well as communication skills and ethical awareness.

Intended Learning Outcomes of Major (MILOs)

Upon successful completion of this Major, a BSc DS graduate should be able to:

1. Integrate the theories and principles of mathematical, statistical, computing foundations for the data science;
2. Gain computing expertise with data collection, data analysing, data visualization, statistical analysis and machine learning.
3. Build skills and intelligence of organizing and analysing data with a level of flexibility within different application modules.
4. Use a variety of software packages to conduct data curation, modeling, computation and inference and draw conclusions and actionable insights.
5. Create and formulate the data-driven models in practice; master the spectrum of the data science life cycle and the connection to specific domain knowledge and business models.
6. Acquire work related experience and effective communication skills necessary to work within a team in an international and culturally diverse workplace.
7. Recognize the social responsibility and ethic awareness for the development of the data-driven technologies in the modern era of big data.

2 DEGREE REQUIREMENT

2.1 Minimum Number of Credit Units Required for the Award

Degree Requirements	Normative 4-year Degree (DELTA stream)	Normative 4-year Degree	Advanced Standing I	Advanced Standing II (Senior-year Entry)
Gateway Education requirement *	31 credit units	31 credit units	22 credit units	12 credit units
College/School requirement *	8 credit units	8 credit units	N/A	N/A
Major requirement	67 credit units (Core: 52 Elective: 15)	64 credit units (Core: 43 Elective: 21)	53 credit units (Core: 41 Elective: 12)	50 credit units (Core: 38 Elective: 12)
Free electives / Minor (optional)	15 credit units	18 credit units	18 credit units	N/A
Minimum number of credit units required for the award	121 credit units	121 credit units	93 credit units	62 credit units
Maximum number of credit units permitted	144 credit units	144 credit units	114 credit units	84 credit units

Normal and Maximum Period of Study

	Normative 4-year Degree (DELTA stream)	Normative 4-year Degree	Advanced Standing I (Note 1)	Advanced Standing II (Senior-year Entry) (Note 2)
Normal period of study	4 years	4 years	3 years	2 years
Maximum period of study	8 years	8 years	6 years	5 years

Note 1: For students with recognised Advanced Level Examinations or equivalent qualifications.

Note 2: For Associate Degree/Higher Diploma graduates admitted to the senior year.

2.2 Gateway Education

(Please refer to <https://www.cityu.edu.hk/edge/ge>)

Requirements	Normative 4-year Degree	Advanced Standing I (Note 1)	Advanced Standing II (Senior-year Entry) (Note 2)
<u>University requirements</u>			
English			
• GE1401 University English	3 credit units	3 credit units	Not a compulsory requirement
• Discipline-specific English	3 credit units	3 credit units	3 credit units
GE1501 Chinese Civilisation – History and Philosophy	3 credit units	3 credit units	Not a compulsory requirement
GE1601 Whole-Person Development	1 credit unit	1 credit unit	Not a compulsory requirement
<u>Distributional requirements</u> Area 1: Arts and Humanities Area 2: Study of Societies, Social and Business Organisations Area 3: Science and Technology	12 credit units <i>(At least one course from each of the three areas)</i>	6 credit units <i>(From two different areas)</i>	3 credit units
<u>College/School-specified courses</u> ^	9 credit units	6 credit units	6 credit units
Total	31 credit units	22 credit units	12 credit units

Note 1: For students with recognised Advanced Level Examination or equivalent qualifications.

Note 2: For Associate Degree/Higher Diploma graduates admitted to the senior year.

^College/School-specified courses for fulfilling the Gateway Education requirement

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree				
CS1315	Introduction to Computer Programming	B1	3	
SDSC2003	Human Contexts and Ethics in Data Science	B2	3	
CS3402	Database Systems	B3	3	
Advanced Standing I and Advanced Standing II (Senior-year Entry)				
CS3402	Database Systems	B3	3	
Choose any ONE of the following list:				
GE2313	Global IT Case Studies	B2	3	
GE2324	The Art and Science of Data	B2	3	
GE2338	Everyday Security - Protecting Yourself in the Digital Age	B2	3	
GE2340	Artificial Intelligence - Past, Present, and Future	B2	3	
CB2100	Introduction to Financial Accounting	B2	3	
CB2300	Management	B2	3	
CB2500	Information Management	B2	3	
CB2601	Marketing	B2	3	

2.3 English Language Requirement

Normative 4-year degree students and Advanced Standing I students who passed the 6 credit units of specified GE English courses, and Advanced Standing II students who passed the 3 credit units of discipline-specific GE English course are recognized as fulfilling the University's English Language Requirement.

Students scoring below Level 4 in HKDSE English Language or Grade D in HKALE AS-level Use of English or students who do not possess an equivalent qualification are required to complete two 3-credit unit courses, EL0200A English for Academic Purposes 1 and EL0200B English for Academic Purposes 2, prior to taking the GE English courses. Students who demonstrate that they have achieved a grade B or above in their overall course results for EL0200A will achieve 3 credits and also be considered to have satisfied the pre-requisite for entry to the GE English courses without needing to take EL0200B. The credit units of EL0200A and EL0200B will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

2.4 Chinese Language Requirement

Students scoring below Level 4 in HKDSE Chinese Language, or below Grade D in HKALE AS-level Chinese Language and Culture will be required to complete a 3-credit unit course CHIN1001 University Chinese I. The 3 credit units will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

In addition to the above requirement, Colleges/Schools also have the discretion to specify other Chinese language courses for their students, including students who do not possess the above qualifications (Senate/70/MM27-28 refers). Please indicate if there are such requirements.

2.5 College/School Requirement

(The catalogue term of the College/School requirement that students will follow will be the same as their admission term.)

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree (8 credit units)				
MA1503	Linear Algebra with Applications	B1	4	
MA1508	Calculus	B1	4	
Advanced Standing I (0 credit unit)				
College Requirement waived.				
Advanced Standing II (Senior-year Entry) (0 credit unit)				
College Requirement waived.				

2.6 Major Requirement

2.6.1 Core Courses

- Normative 4-year Degree (DELTA stream): 52 credit units
- Normative 4-year Degree: 43 credit units
- Advanced Standing I: 41 credit units
- Advanced Standing II: 38 credit units

Course Code	Course Title	Level	Credit Units	Remarks
SDSC1001	Introduction to Data Science	B1	2	Waived for students admitted into ASI and ASII
MA2508	Multi-variable Calculus	B2	4	
MA2510	Probability and Statistics	B2	3	Waived for students admitted into ASII
SDSC2001	Python for Data Science	B2	4	
SDSC2002	Convex Optimization	B2	3	
SDSC2004	Data Visualization	B2	3	
SDSC2005	Introduction to Computational Social Science	B2	3	
SDSC2102	Statistical Methods and Data Analysis	B2	3	
CS2334	Data Structures for Data Science	B2	3	
CS3273	Data Protection and System Security	B3	3	
SDSC3001	Big Data: The Arts and Science of Scaling	B3	3	DELTA stream only
SDSC3006	Fundamentals of Machine Learning I	B3	3	
SDSC3007	Advanced Statistics	B3	3	
SDSC3025	Internship for DELTA	B3	3	DELTA stream only
SDSC3026	International Professional Development	B3	3	DELTA stream only
SDSC4116	Data Science Capstone	B4	6	

2.6.2 Electives for all normative 4-year degree, ASI and ASII students

Students may choose available elective courses from any modules for specialization.

- Normative 4-year Degree (DELTA stream): 15 credit units
- Normative 4-year Degree: 21 credit units
- Advanced Standing I and II: 12 credit units

(Must earn at least 12 credit units from B4 level courses)

Course Code	Course Title	Level	Credit Units	Area(s)	Remarks
GE2339	Smart City – a Systems Engineering Perspective	B2	3	Artificial Intelligence	
IS2505	e-Business	B2	3	General	
CS3201	Computer Networks	B3	3	General	
CS3342	Software Design	B3	3	General	
CS3343	Software Engineering Practice	B3	3	General	
LT3233	Computational Linguistics	B3	3	General	
SDSC3001	Big Data: The Arts and Science of Scaling*	B3	3	Artificial Intelligence	Core course for DELTA stream
SDSC3002	Data Mining	B3	3	Artificial Intelligence and Statistical Learning	
SDSC3003	Blockchain	B3	3	General	
SDSC3004	Computational Optimization	B3	3	Statistical Learning	
SDSC3005	Computational Statistics	B3	3	Statistical Learning	
SDSC3008	Systems Dynamics and Control	B3	3	Artificial Intelligence	
SDSC3009	Behavioural Analytics	B3	3	Social Media Analytics	
SDSC3010	Digital Trace Analytics	B3	3	Social Media Analytics	
SDSC3011	Social Data Processing and Modelling	B3	3	Social Media Analytics	
SDSC3013	Introduction to Social Media Analytics*	B3	3	Social Media Analytics	
SDSC3014	Introduction to Sharing Economy	B3	3	General	
SDSC3015	Knowledge Graph and Cognitive Computing	B3	3	Artificial Intelligence	
SDSC3016	Social Network Analysis	B3	3	Social Media Analytics	
SDSC3017	Game Theory and Its Application	B3	3	Artificial Intelligence	
SDSC3018	Introduction to Internet of Things	B3	3	General	
SDSC3019	Introduction to Networked Life and Data Science	B3	3	General	

SDSC3022	Financial Data Analytics for Investments	B3	3	General	
SDSC3023	Data Science Applications in Portfolio Risk Analysis	B3	3	General	
SDSC3060	Operation Research	B3	3	General	
SDSC3105	Bayesian Analysis*	B3	3	Statistical Learning	
COM4511	Social Media and Communication	B4	3	Social Media Analytics	
CS4186	Computer Vision and Image Processing	B4	3	General	
CS4286	Internet Security and e-Commerce Protocols	B4	3	General	
CS4296	Cloud Computing	B4	3	General	
CS4480	Data-Intensive Computing	B4	3	General	
CS4486	Artificial Intelligence	B4	3	Artificial Intelligence	
CS4487	Machine Learning	B4	3	Artificial Intelligence	
SDSC4001	Foundation of Reinforcement Learning	B4	3	Artificial Intelligence and Statistical Learning	
SDSC4008	Deep Learning	B4	3	Artificial Intelligence and Statistical Learning	
SDSC4009	Data Intelligence in Action	B4	3	Artificial Intelligence	
SDSC4010	Projects in Data Science (research)	B4	3	General	
SDSC4011	Experimental Research for Social Media	B4	3	Social Media Analytics	
SDSC4016	Fundamentals of Machine Learning II*	B4	3	Artificial Intelligence, Statistical Learning and Social Media Analytics	
SDSC4018	AI in Systematic Trading	B4	3	Artificial Intelligence	
SDSC4019	Stochastic Processes and Applications	B4	3	Statistical Learning	
SDSC4026	Systems Modelling and Simulation	B4	3	Social Media Analytics	
SDSC4107	Financial Engineering and Analytics	B4	3	General	
SDSC4110	Statistical Design and Analysis of Experiments	B4	3	Statistical Learning	

2.6.3 Optional Electives for all normative 4-year degree and Advanced Standing I

Students may choose to enroll in the course(s) below to enrich their study.

Course Code	Course Title	Level	Credit Units	Remarks
SDSC0001	Internship	B1	0	
SDSC0002	Internship	B1	0	
SDSC0003	Internship	B1	0	
SDSC0004	Internship	B1	0	
SDSC3080	Internship	B3	3	Not available for DELTA stream

2.7 Assessment Policy

For courses offered by DS which comprise both coursework and examination assessment components, apart from obtaining a minimum 40% in the overall mark, a student must also obtain a minimum mark of 30% in both coursework and examination in order to pass a course.

2.8 Classification of Award

The University grants bachelor's degree awards with the following classifications based on the CGPAs according to the general guidelines below:

Classification	CGPA
First Class Honours	3.50 or above
Upper Second Class Honours	3.00 - 3.49
Lower Second Class Honours	2.50 - 2.99
Third Class Honours	2.00 - 2.49
Pass	1.70 - 1.99

For more details, please go to https://www.cityu.edu.hk/arro/regu/regu_ugar.htm

2.9 Bonus Features

Student Exchange/Internship

The Department provides student exchange and internship opportunities to our students to gain international perspectives, global engagement and industry experience.

Students may choose between the overseas student exchange opportunities at world-leading institutions provided by the Department or the University. Paying the tuition at CityUHK, students will spend a study semester abroad and may transfer the academic credits earned at the host institution to fulfil the graduation requirement.

The Department also partners with premier corporates in a wide range of sectors to offer internship opportunities relevant to our majors. With these placements, students are expected to gain practical knowledge and hands-on experience in real-world applications.

3 ACADEMIC REGULATIONS AND GUIDELINES

Students should observe the University's academic regulations and guidelines at all times. More information can be available by referring to the following websites maintained by the Academic Regulations and Records Office (ARRO).

ARRO Homepage: <http://www.cityu.edu.hk/arro/>

4 ACADEMIC HONESTY

Academic honesty is central to the conduct of academic work. Students are responsible for knowing and understanding the Rules on Academic Honesty. To enhance students' understanding on academic honesty, all students are required to complete a tutorial on academic honesty and make a declaration on their understanding of this core academic principle online on or before **30 November 2025** in order to access their course grades. For details, please refer to the website: <https://www.cityu.edu.hk/pvdp/ah/uni-ah-req.htm>.

5 STUDENT CONDUCT

City University of Hong Kong aims to provide a harmonious and supportive environment for teaching and learning. Students are expected to treat all other students and members of the University community with honesty, respect and maintain good conduct in student discipline. Students need to observe the Code of Student Conduct and other rules and regulations which are crucial in making the University an excellent place for learning.

For details of these rules and regulations, please refer to the website https://www.cityu.edu.hk/studentlife/about_us-sdc.aspx

6 STUDENT DEVELOPMENT SERVICES (SDS)

The SDS offers many student-centred services to students. It provides support and assistance for students in the following areas:

- Attainment of an all-round development
- Enrichment of campus life
- Development of career plans and choices
- Solving personal problems
- Enhancement of physical and mental well-being
- Provision of financial assistance
- Scholarship application
- Welfare provisions

7 COMMUNICATIONS

Listed below are the normal channels of communication between students and courses / major / department:

- a) Students having difficulties in a course of study should first talk to the course instructor concerned.
- b) A student who wishes to discuss the overall organization of the major should speak to the Programme Leader or Deputy Programme Leader.
- c) The DS Joint Staff & Student Consultative Committee helps to facilitate consultation and communication. A student from each entry cohort will be elected to sit in the Committee.
- d) In addition, a student from each entry catalogue term will be elected to sit in the Major Programme Committee which meets every semester to discuss major-related matters.
- e) Students should feel free to approach their respective academic advisors for advice regarding their study plan or personal and career development.

8 PROGRAMME LEADERS

Programme Leader:	Prof YANG, Yu	3442-4035	yuyang@cityu.edu.hk
Deputy Programme Leader:	Prof LI, Xinyue	3442-2180	xinyueli@cityu.edu.hk

9 INFORMATION TO NEW STUDENTS

9.1 How to access your Personal Class Schedule

- i) Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus, then point to “Quick Links” at the top and click “AIMS”.
- ii) Log onto AIMS.
- iii) Click "Course Registration" menu.
- iv) Click “Main Menu for Wed Add/Drop”
- v) Click "Weekly Schedule", choose the appropriate term and press "Submit".
- vi) You will find your class schedule in matrix form.
- vii) Press the "View Detail Schedule" button at the bottom of your matrix timetable to display details of your class schedule.

9.2 How to get Instructors’ handouts through Canvas

- i) Log onto the CityUHK e-Portal from any terminal on campus or off campus.
- ii) Enter the course under “My Courses”
- iii) Click “Files”.

9.3 How to check Major Programme Requirement and Course Syllabi

Go to the CityUHK home page, select “Academics” from the top menu and click “Programme and Course Catalogue”.

9.4 Course Registration for Semester A 2025-26

For Semester A 2025-26, students will be pre-registered in required courses and major electives in most cases if possible.

- i) The date for release of your class schedule is **29 July 2025**. Please check your curriculum requirements, review your study plan and then make appropriate adjustments to your pre-registered courses.
- ii) Add/Drop of courses can be made through AIMS for web-enabled courses during the web registration period. For non-web-enabled courses, approval is required from the major department and you can submit your application via an electronic form available in AIMS. After logging-in AIMS, go to tab “Course Registration” and click “Application for Add/Drop of Non-Web-enabled Course & Study Load Adjustment”.

How to do the Add/Drop:

- Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus and click “AIMS”.
- Log onto “AIMS” and then click “Course Registration”.
- Choose “Add or Drop Classes”.
- Select and choose the correct term.

- iii) Web registration begins on **25 August 2025** but you need to check your time ticket first from “AIMS”.
- iv) All add/drops end at **8 September 2025**.

- v) Details of course registration arrangements for Semester A 2025-26 will be available near the end of July 2025. For details, please refer to ARRO website:
https://www.cityu.edu.hk/arro/creg/creg_main.htm

9.5 How to access your Student Email Account

- i) Access <http://www.cityu.edu.hk> and point to “Quick Links” at the top of the screen and select “Email”.
- ii) In the Email Services home page, click “@my.cityu.edu.hk” under column of “Student” to go to **M365 Web Logon**.
- iii) Read through the whole page if you are not familiar with webmail. Then click button “M365 Sign-in page” at the bottom.
- iv) Enter Sign-in ID in such format “YourEID-c@my.cityu.edu.hk” and click “Next”.
- v) Click “Sign in” after keying in password.

Important notes:

For email communication:
Please state your ***student name, number and contact telephone number***.

9.6 Credit Transfer / Course Exemption

Applications for credit exemption must be made before the first semester of the student’s admission. Students granted course exemption are required to take other courses to make up the credits required for fulfilling the award requirements. For Semester A 2025-26, the application period is from **14 July to 29 August 2025**. For details, please refer to ARRO website: https://www.cityu.edu.hk/arro/cdtf/cdtf_main.htm.

9.7 Administrative Support from General Office

Counter Services Hours

Mon to Fri	9:00am to 12:30 pm 2:00pm to 5:30pm
Sat, Sun & Public Holiday	Closed

Inquiry:	3442-7887
Fax:	3442-0173
Email:	ds.go@cityu.edu.hk

Appendix I : Model Study Paths

Model Study Path for BSc in Data Science 2025/26 (normative 4-year)

Yr	Sem	Major Requirements					University Requirements			CU's
2025 / 26 (Year 1)	A	College Requirement - MA1508 Calculus (4)	College Specified - CS1315 Introduction to Computer Programming (3)	SDSC1001 Introduction to Data Science (2)			English 1 – GE1401 University English (3)	GE1601 Whole- Person Development (1)		13
	B	College Requirement - MA1503 Linear Algebra with Applications (4)	SDSC2004 Data Visualization (3)				English 2 - Discipline-specific English GE2401 English for Science (3)	GE1501 Chinese Civilisation – History and Philosophy (3)	Gateway Education 1 (3)	16
	S									0
2026 / 27 (Year 2)	A	MA2510 Probability and Statistics (3)	MA2508 Multi-variable Calculus (4)	SDSC2001 Python for Data Science (4)	CS2334 Data Structures for Data Science (3)				Gateway Education 2 (3)	17
	B	College Specified - CS3402 Database Systems (3)	SDSC2002 Convex Optimization (3)	SDSC2005 Introduction to Computational Social Science (3)	SDSC2102 Statistical Methods and Data Analysis (3)				Gateway Education 3 (3)	15
	S									0
2027 / 28 (Year 3)	A	SDSC3006 Fundamentals of Machine Learning I (3)	SDSC3007 Advanced Statistics (3)	Major Elective 1 (3)	Major Elective 2 (3)				Gateway Education 4 (3)	15
	B	College Specified - SDSC2003 Human Contexts and Ethics in Data Science (3)	CS3273 Data Protection and System Security (3)	Major Elective 3 (3)	Major Elective 4 (3)	Free Elective 1 (3)				15
	S									0
2028 / 29 (Year 4)	A	SDSC4116 Data Science Capstone (3)	Major Elective 5 (3)	Major Elective 6 (3)	Free Elective 2 (3)	Free Elective 3 (3)				15
	B	SDSC4116 Data Science Capstone (3)	Major Elective 7 (3)	Free Elective 4 (3)	Free Elective 5 (3)	Free Elective 6 (3)				15
() indicates number of credit units										Total credits required = 121

Model Study Path for BSc in Data Science 2025/26 (Advanced Standing I)

Yr	Sem	Major Requirements					University Requirements		CUs
2025 / 26 (Year 2)	A	MA2508 Multi-variable Calculus (4)	MA2510 Probability and Statistics (3)	SDSC2001 Python for Data Science (4)			English 1 - GE1401 University English (3)	GE1601 Whole-Person Development (1)	15
	B	College Specified - CS3402 Database Systems (3)	SDSC2004 Data Visualization (3)	SDSC2102 Statistical Methods and Data Analysis (3)	SDSC2002 Convex Optimization (3)		GE1501 Chinese Civilisation – History and Philosophy (3)	English 2 - Discipline-specific English GE2401 English for Science (3)	18
	S								0
2026 / 27 (Year 3)	A	SDSC3006 Fundamentals of Machine Learning I (3)	SDSC3007 Advanced Statistics (3)	CS2334 Data Structures for Data Science (3)	Major Elective 1 (3)	Free Elective 1 (3)			15
	B	SDSC2005 Introduction to Computational Social Science (3)	CS3273 Data Protection and System Security (3)	Major Elective 2 (3)	Free Elective 2 (3)		Gateway Education 1 (3)		15
	S								0
2027 / 28 (Year 4)	A	SDSC4116 Data Science Capstone (3)	Major Elective 3 (3)	Free Elective 3 (3)	Free Elective 4 (3)		College-specified course (3) <i>Any courses in the list of College Specified courses for ASI & II</i>		15
	B	SDSC4116 Data Science Capstone (3)	Major Elective 4 (3)	Free Elective 5 (3)	Free Elective 6 (3)		Gateway Education 2 (3)		15
() indicates number of credit units							Total credits required = 93		

- [Note]
- For courses that required MA1508 Calculus & MA1503 Linear Algebra with Applications as pre-requisite/precursor, this requirement is waived as MA1508 & MA1503 are not in the Advanced Standing I curriculum – Pre-requisite MA1508 & MA1503 waived for ---
 MA2508 Multi-variable Calculus
 MA2510 Probability and Statistics
 - For courses that required SDSC1001 Introduction to Data Science as pre-requisite/precursor, this requirement is waived as SDSC1001 is not in the Advanced Standing I curriculum – Pre-requisite SDSC1001 waived for ---
 SDSC2001 Python for Data Science
 SDSC2005 Introduction to Computational Social Science

Model Study Path for BSc in Data Science 2025/26 (Advanced Standing II)

Yr	Sem	Major Requirements				University Requirements	CU's	
2025 / 26 (Year 3)	A	MA2508 Multi-variable Calculus (4)	SDSC2001 Python for Data Science (4)	SDSC3006 Fundamentals of Machine Learning I (3)	Major Elective 1 (3)	Gateway Education 1 (3)	17	
	B	SDSC2002 Convex Optimization (3)	SDSC2004 Data Visualization (3)	SDSC2102 Statistical Methods and Data Analysis (3)	CS2334 Data Structures for Data Science (3)	SDSC3060 Operations Research (3)	Discipline-specific English GE2410 - English for Engineering (3)	18
	S							
2026 / 27 (Year 4)	A	SDSC4116 Data Science Capstone (3)	SDSC3007 Advanced Statistics (3)	Major Elective 2 (3)	Major Elective 3 (3)	College Specified - CS3402 Database Systems (3)	18	
	B	SDSC4116 Data Science Capstone (3)	CS3273 Data Protection and System Security (3)	Major Elective 4 (3)		College-specified course (3) <i>Any courses in the list of College Specified courses for ASI & II</i>	15	
() indicates number of credit units						Total credits required = 62		

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[Note]

1. For courses that required MA1508 Calculus & MA1503 Linear Algebra with Applications as pre-requisite/precursor, this requirement is waived as MA1508 & MA1503 are not in the Advanced Standing II curriculum – Pre-requisite MA1508 & MA1503 waived for ---
MA2508 Multi-variable Calculus
2. For courses that required SDSC1001 Introduction to Data Science as pre-requisite/precursor, this requirement is waived as SDSC1001 is not in the Advanced Standing II curriculum – Pre-requisite SDSC1001 waived for ---
SDSC2001 Python for Data Science
SDSC2005 Introduction to Computational Social Science

