

Bachelor of Arts and Sciences in Social Data Science [BASc(SDS)]

(for students admitted in the academic year 2025-26 and thereafter)

A. Programme Structure

Students are required to complete courses totalling not fewer than 120 credits. As a general guideline, a 6-credit course involves students in about 150 hours of timetabled classes, tutorials, practical sessions, online interaction, reading, practical work, researching and writing assignments.

First year of the curriculum

- 36 credits in the Major in Social Data Science
- a 6-credit course in the Common Core Curriculum in any Area of Inquiry (Aoi)
- a 6-credit English in the Discipline course
- a 3-credit artificial intelligence literacy course
- 12 credits in free elective courses or Advanced Elective Courses

Second year of the curriculum

- 36 credits in the Major in Social Data Science
- a 6-credit course in the Common Core Curriculum in remaining Areas of Inquiry (Aoi)
- a 3-credit artificial intelligence literacy course
- 12 credits in free elective courses

	<u>Semester 1</u>	<u>Semester 2</u>
Year 3	2 SDS Major Courses 12 credits	3 SDS Major Courses 18 credits
	1 English in the Discipline Course 6 credits	Internship 6 credits
	1 Common Core Course	6 credits
	1 Artificial Intelligence Literacy Course	3 credits
	2 Free Elective Courses or Advanced Elective Courses	12 credits
	Total: 63 credits	
Year 4	5 SDS Major Courses	30 credits
	Project (with 12 hours research elements in Semester 1)	6 credits
	1 Common Core Course	6 credits
	1 Artificial Intelligence Literacy Course	3 credits
	2 Free Elective Courses	12 credits
	Total: 57 credits	

Notes:

1. Students are required to take not fewer than 24 credits nor more than 30 credits in any one semester unless otherwise permitted or required by the Board of the Faculty.
2. Students may, of their volition, take additional credits not exceeding 6 credits in each semester, and/or further credits during the summer semester, accumulating up to a maximum of 72 credits in one academic year.
3. Students who wish to select a minor are advised to plan ahead as they may be required to take additional study load so as to fulfill the minor requirements.
4. Students are required to complete a non-credit bearing course in national education and national security education.

B. Course list

MAJOR IN SOCIAL DATA SCIENCE (72 credits)

Candidates are required to complete 72 credits in the Major in Social Data Science (including 24 credits of introductory courses; 36 credits of advanced courses; 12 credits of capstone experience) as follows:

Introductory Courses (24 credits)

BSDS3001 Social data science foundations (6 credits)
BSDS3002 Social computing: methods and applications (6 credits)
BSDS3003 Data processing and visualization (6 credits)
BSDS3004 Introduction to statistics (6 credits)

Advanced Compulsory Courses (18 credits)

BSDS3005 Advanced statistical modeling for social applications (6 credits)
BSIM4018 Data warehousing and data mining (6 credits)
SDST3612 Statistical machine learning (6 credits)

Advanced Elective Courses (18 credits)

Candidates are required to complete one course from each of the following three disciplines.

I. Faculty of Education

BSIM3017 Database systems (6 credits)
BSIM3021 Web development, users and management (6 credits)
BSIM3025 Multimedia and human-computer interaction (6 credits)
BSIM4011 Project management (6 credits)
BSIM4019 Electronic commerce (6 credits)
BSIM4020 Information society issues and policy (6 credits)
BSIM4024 Fundamentals of object-oriented programming (6 credits)
BSIM4027 Selected topics in information management (6 credits)
BSIM4028 Principles and practice of data visualization (6 credits)
MLIM6319 Information behavior (6 credits)
MLIM7350 Data curation (6 credits)

II. Faculty of Social Sciences

GEOG1020 Modern maps in the age of big data (6 credits)
GEOG2090 Introduction to geographic information systems (6 credits)
GEOG2152 Health and medical geography (6 credits)
GEOG3417 Health, wellbeing, place and GIS (6 credits)
POLI3039 Public policy analysis (6 credits)
POLI3080 Global political economy (6 credits)
POLI3131 In search of good policy: an introduction to policy evaluation (6 credits)
PSYC2071 Judgements and decision making (6 credits)
SOCI2080 Media and culture in modern societies (6 credits)
SOWK2023 Social policy issues in Hong Kong (6 credits)
SOWK2131 Behavioural economics for social change (6 credits)
SOWK3091 Mental health sciences and society (6 credits)

III. School of Computing and Data Science

SDST3613 Marketing analytics (6 credits)
SDST3617 Sample survey methods (6 credits)
SDST3622 Data visualization (6 credits)

SDST4011 Natural language processing (6 credits)

SDST4601 Time-series analysis (6 credits)

SDST4609 Big data analytics (6 credits)

Capstone Experience (12 credits)

BSDS3999 Internship (6 credits)

BSDS4999 Project (6 credits)

ENGLISH IN THE DISCIPLINE COURSE (6 credits)

CAES9420 Academic English for information management and social data science students

COMMON CORE CURRICULUM (12 credits)

Candidates are required to complete 12 credits of courses in the Common Core Curriculum in different Areas of Inquiry.

ARTIFICIAL INTELLIGENCE LITERACY (6 credits)

Candidates are required to complete 6 credits in artificial intelligence literacy.

ELECTIVE COURSE (24 credits)

Candidates are required to complete 24 credits in elective courses.